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Thursday, February 25, 2010
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**COMMISSION ON WATER RESOURCE MANAGEMENT**
**ROUTE SLIP FOR PERMIT ISSUANCE 1/22/10**

**FROM:**  RYAN  
**DATE:**  6/2/10  
**SUSPENCE DATE:**

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**WELL NUMBER**  3586-37  
**WELL NAME**  Poo Wai

**application type**  BOTH

1 WCP COVER LETTER
2 WCP
3 WELL CHECK PRINTOUT
proposed well section issues?

4 PIP COVER LETTER
5 PIP

**COMMENTS:**

date rec'd  
issues?  
if checked, send to applicant

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**NOTES:**

**DRILLER**  Rod Diamond  
Diamond Construction and Water Well Drilling  
23378  
HCR#3 Box 14073  
Keeaumoku  
Hi  96749

phone  966-4129  
fax  966-4129  
call  987-9100

**TMK**  1-5-032:053
**PUMP CAPACITY**  16  
**WELL OWNER**  Phil Whitman  
**LAND OWNER**  Phil Whitman

**COMMENT DEADLINE**  5/25/10
June 8, 2010

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR#3 Box 14073
Keaau, HI 96749

Dear Mr. Diamond:

Pump Installation Permit
Poo Wai Well (Well No. 3586-37)

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

**Special Conditions**

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

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

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

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

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

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255.

Sincerely,

[Signature]

Laura H. ThieLEN
Chairperson

Enclosure

c: Phil Whitman (with applicable comments - DOH SDWB, WWB, CWB)
USGS
Hawaii DWS
PUMP INSTALLATION PERMIT
Poo Wai Well, Well No. 3586-37

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 Poo Wai Well (Well No. 3586-37) at TMK 1-5-032:053, Hawaii, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

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

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

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

4. The pump installation permit shall be for installation of a 16 gpm rated capacity, or less, pump in the well. This permanent capacity may be reduced in the event that the pump test data does not support the capacity.

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

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

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

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

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

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

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

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

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

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

Date of Approval: May 25, 2010
Expiration Date: May 25, 2012

LAURA H. THELEN, Chairperson
Commission on Water Resource Management

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

Installer's Signature: ___________________________ C-57, C-57a, or A License #: BC-23379 Date: ____________
Printed Name: Rod Diamond Firm or Title: Diamond Construction and Water Well Drilling

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

Attachments
REF: 3586-37.wcp

June 8, 2010

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR#3 Box 14073
Keeau, Hi 96749

Dear Mr. Diamond:

Well Construction Permit
Poo Wai Well (Well No. 3586-37)

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

Special Conditions

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

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

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

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

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

If you have any questions, please call Ryan Imata of the Commission staff at 587-0255 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai), extension 70255.

Sincerely,

[Signature]
LAURA H. THIELEN
Chairperson

Enclosures

c: Phil Whitman (with applicable comments ~ DOH SDWB, WWB, CWB)
USGS
Hawaii DWS
WELL CONSTRUCTION PERMIT

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Poo Wai Well (Well No. 3586-37) at TMK 1-5-032:083, 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 of the Commission on Water Resource Management (Commission), P.O. Box 621, Honolulu, HI 96809, shall be notified, in writing, at least two (2) weeks before any work authorized by this permit commences and staff shall be allowed to inspect installation activities in accordance with §13-168-15, Hawaii Administrative Rules (HAR).

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

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff at www.hawaii.gov/dlnr/cwrm/resources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.

4. In basal ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness (41 times initial head) of the basal ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basal ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.

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

6. In the event that historically significant remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee shall stop work and immediately contact the Department of Land and Natural Resources State Historic Preservation Division. Work may recommence only after written concurrence by the State Historic Preservation Division.

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

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

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

10. The well construction permit application and, if relevant, any related staff submittal approved by the Commission are incorporated into this permit by reference.

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

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

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

14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(f), HAR, prior to any well drilling or plugging work.

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

16. This permit shall apply to the location shown on the application only. If the well is to be relocated, the permittee shall apply for a new well construction/pump installation permit in accordance with §13-168-12(6), HAR.

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

Date of Approval: May 25, 2010
Expiration Date: May 25, 2012

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

Driller's Signature: __________________________ C-57 License #: BC-23379 Date: __________________________
Printed Name: Rod Diamond Firm or Title: Diamond Construction and Water Well Drilling

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

Attachment
## Well Check Program
4/1/04 - Revised for update to Well Standards (February 2004)

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<td>Cement Grout</td>
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<td>Grouting Method</td>
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<td>Public Water Supply Well?</td>
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<td>Solid Casing Material</td>
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<td>Solid Casing Wall Thickness</td>
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### Results

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<td>Material</td>
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<td>Minimum Thickness per standards</td>
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<td>Wall Thickness Provided</td>
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<td>Thickness of Annular Space</td>
<td>2       okay Section 2.6(d)</td>
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TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Poo Wai Well (Well No. 3586-37)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 24, 2010. 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 808-692-0255.

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 15 or more service connections) and must receive District of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 11, Chapter 20, Rules Relating to Public Water Systems, §§11-20-19

This well does not qualify as a source serving a public water system (serving 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 shall test for bacteriological and chemical presence before ministry such use and regularly monitor the water quality therefor. However, if future plans see from the source increase 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 contamination by physically separating 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 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 [X] 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 revisit the new location.

No comments/observations

Contact Person: [Signature]
Phone: [Redacted]
Date: [Redacted]
For Construction Activities Disturbing One (1) or More Acres of Total Land Area

By HAR, Title 11, Chapter 55, Appendix C, effective October 22, 2007, and compiled June 15, 2009, an NPDES permit or Notice of General Permit Coverage is required before the start of the construction activities that result in the disturbance of one (1) or more acres of total land area, including clearing, grading, and excavation. The total land area includes a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under a larger common plan of development or sale. An NOI (see Comment No. 1, above) shall be submitted 30 calendar days before the start of construction activities.
TO: Honorable Chiyome L. Fukino, M.D., Director of Health
Attention: Acting Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawakoa, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Poi Wai Well (Well No. 3586-37)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 24, 2010. 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 Imaza 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 possible 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, §§11-20-19.

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

If the well is used to supply both possible and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating possible 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 accidental 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 water contamination is located near the proposed well site (information attached).

An NDES permit is required.

Other relevant DOH rules/legislation, 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/applied for.

Contact Person: Phone: 587-4028

Date: 5/12/10
CWRM Application Source: Po'o Wai Well  
(Well No. 3686-37)  
TMK: (3)1-5-32: 53

Safe Drinking Water Branch (SDWB) - Engineering Section

See attached private water wells information sheet.

SDWB Underground Injection Control (UIC) Section

1. In general, a shallow well, or a well that recharges quickly from local rainfall, should not be used as a potable water source because such a well increases the risk of having unsatisfactory groundwater quality that when consumed may compromise health. Factors that directly influence a well's groundwater quality include wastewater disposal systems (cesspools, septic systems, drainage wells), lawn/garden/crop-growing activities, and even the proximity to the ocean where salt water intrusion may occur.

2. Well water quality should be initially and periodically tested for its acceptable and intended use, especially if for human consumption. Water quality should not be presumed acceptable and unchanging. Land-based activities around the well and within the well's recharge area may, over time, have an unacceptable effect on the well's water quality. Well construction materials and related equipment could also affect water quality.
**WARNING!** As the owner of a privately-owned well, you should **not** assume that water from your well is safe for consumption. It is your responsibility to make sure that your well water is safe to drink. The only way to do this is to have your well regularly tested for bacteriological and chemical contaminants.

There are no regulations controlling water quality in private wells serving individual residences as there are for public water systems (public or privately owned utilities supplying water to 25 or more people or 15 service connections). In other words, there are no enforceable limits for contaminants and no requirements for regular testing. Private wells are often found in rural areas, where many activities such as onsite wastewater disposal can contaminate the groundwater.

**U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) RECOMMENDATIONS**

The EPA recommends that private well owners test their well water each year for such contaminants as Total Coliform Bacteria, Nitrates, as well as any other contaminants that may be of concern in your area. More frequent testing may be appropriate if you suspect a problem. EPA also suggests that you consider testing for pesticides, organic chemicals, and heavy metals before using it for the first time. Please refer to the EPA website on Private Drinking Water Wells at [http://www.epa.gov/safewater/privatewells/faq.html](http://www.epa.gov/safewater/privatewells/faq.html)

**OTHER CONTAMINANTS**

Water testing can be very expensive. It is important that you spend time to identify what other potential contaminants may be of concern. Please refer to the EPA website on Private Drinking Water Wells at [http://www.epa.gov/safewater/privatewells/whatyoucan.do.html](http://www.epa.gov/safewater/privatewells/whatyoucan.do.html) for more helpful information. Be aware of what and how you use and dispose of household and garden chemicals. Also determine the location of nearby septic tanks or cesspools, and agricultural or industrial activities in the area. General information on known chemical contamination of ground water in Hawaii can also be found at the DOH website [www.hawaii.gov/health/environmental/water/sdwb/conmaps/pdf/conmaps05.pdf](http://www.hawaii.gov/health/environmental/water/sdwb/conmaps/pdf/conmaps05.pdf)

**LABORATORIES**

Local commercial laboratories can be found in the yellow pages of the telephone book under "Laboratories, Analytical." Whenever possible, utilize a laboratory that is certified or approved for the specific drinking water tests and carefully follow their instructions for collecting, storing, and transporting the samples. Just be sure to ask the lab to use EPA approved methods for drinking water analysis. A list of labs certified or approved by the Department of Health can be found at [www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdfs/Testing%20Labs.pdf](http://www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdfs/Testing%20Labs.pdf). As lab certification status changes constantly, confirm their status when you contact the lab. Please note that the list is limited to currently regulated contaminants in public water systems.

**RESULTS**

Once the lab provides you with the test results, you will be in a better position to determine if your well water is safe to drink or what contaminant you need to treat for. Generally, you should compare the results with Federal ([www.epa.gov/safewater/mcl.html](http://www.epa.gov/safewater/mcl.html)) and State ([www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdfs/State%20MCL.pdf](http://www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdfs/State%20MCL.pdf)) drinking water standards. Where your test results are greater than the State or Federal maximum contaminant levels, your well water should be considered as **unsafe** for consumption.
TO: Honorable Chiyoue L. Fukino, M.D., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Poo Wai Well (Well No. 3586-37)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 24, 2010. 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.

Riss
Attachment(s)
April 20, 2010

TO: Morris Atta, Administrator  
Land Division  

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

SUBJECT: Well Construction/Pump Installation Permit Application  
Poo Wai Well (Well No. 3586-37) TMK 1-5-032 053  

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by May 24, 2010. 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: Original source of private title was issued prior to statehood.

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: 5/4/10
April 20, 2010

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawakka, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Poo Wai Well (Well No. 3586-37)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 24, 2010. 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.

Rl: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 20, Rules Relating to Potable Water Systems, §11-20-29.

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

If the well is used to supply both potable and non-potable purposes in a single system, the user shall eliminate cross-connections and backflow connections by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all 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: Jerry Nunogawa, Eng. in Hilo

Signed: [Signature]

Date: 933-0401 One-Stop database screen
State of Hawaii - Department of Health
Environmental Health Division - Sanitation Branch
Sanitarian's Report of Cesspools

Dist: Punua

Property Owner: Paul Whitman
Address: Beach Rd, Paradise Park

New Construction: Yes
Intended for: TMK 1-5-32 -53-127

Builder or Contractor: Molenores

Distance from building: 30' Boundary: Over 9' Stream or well

Diameter (clear): 6' Depth: 12' No. ft down to water if any

Capacity (Gallons): 2538 GALS Ground slope

State soil or rock formation starting from surface: 13 1/2' Layered Rock with

Kind of wall or curb: Natural
Kind of cover: Concrete

Distance from surface of ground to top of cover-ft: 1

Approved: Mar. 27 1980

Y. Keal
Sanitarian
LAYED ROCK WITH CRACKS

To north

Bench Rd
TO:        Dr. Puaalokalani Aiu, Administrator
          Historic Preservation
          Theresa Donham
          Historic Preservation

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

SUBJECT:   Well Construction/Pump Installation Permit Application
          Poo Wai Well (Well No. 3586-37) TMK: 1-5-032-053

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by May 24, 2010. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255. If you require additional information regarding specific information that can be provided by the applicant, please contact the applicant directly at the contact information provided on the application form.

RESPONSE:

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

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

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

Contact Person:  NANCY MCMAHON  Phone:  692-8015

Signed:  [Signature]  Date:  4/21/2010
**Commission on Water Resource Management**

**Route Slip for New Applications**

**DM:** RYAN  
**DATE:** 25-Feb-10  
**SUSPENSE DATE:** 4-Mar-10

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<td>NAKAMA, L.</td>
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<td>YOSHINAGA, M.</td>
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**WELL NUMBER:** 3586-37  
**WELL NAME:** Po'° Wai  
**WUP Number:** na

**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. DHP/CDUPISMA pre-screen

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

**Incomplete Action Dates:**

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**WUP Number:** na
April 20, 2010

Mr. Rod Diamond
Diamond Construction and Water Well Drilling
HCR #3 Box 14073
Keeau, HI 96749

Dear Mr. Diamond:

Well Construction/Pump Installation Permit Application for Well No. 3586-37

We acknowledge receipt, on February 24, 2010, of your completed Well Construction/Pump Installation permit application and filing fee for the Poo Wai Well (Well No. 3586-37). 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 or toll-free at 974-4000 (Hawaii), 274-3141 (Kauai), 984-2400 (Maui), or 1-800-468-4644 (Lanai & Molokai) extension 70255.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

RI:ss
Attachment

c: Phil Whitman
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 10171
HONOLULU, HAWAII 96811

TO: Honorable Chiyome L. Fukino, M.D., Director
Department of Health
Attention: Acting Chief, Wastewater Branch
Stuart Yamada, Chief, Safe Drinking Water Branch
Alec Wong, Chief, Clean Water Branch
Dr. Keith Kawaoka, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Poo Wai Well (Well No. 3586-37)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by May 24, 2010. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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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.

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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).

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

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[ ] No comments/objections

Contact Person: ____________________________ Phone: ____________________________
Signed: ____________________________ Date: ____________________________
Transmitted for your review and comment is a copy of the captioned Well Construction/Pump Installation permit application.

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by May 24, 2010. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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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: ________________
TO: Dr. Puaalaokalani Aiu, Administrator
   Historic Preservation
   Theresa Donham
   Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Poo Wai Well (Well No. 3586-37) TMK: 1-5-032-053

April 20, 2010

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

We would appreciate your comments on the captioned application with regard to the programs, plans, and objectives specific to your division. Please respond by returning this cover memo form by May 24, 2010. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

Please find the attached maps to locate the proposed well. If you have any questions about this permit application or request additional review time, please contact Ryan Imata of the Commission staff at 587-0255. If you require additional information regarding specific information that can be provided by the applicant, please contact the applicant directly at the contact information provided on the application form.

RESPONSE:

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

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

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

Contact Person: __________________________________________ Phone: ______________________

Signed: __________________________________________ Date: ______________________

Attachment(s)
Ms. Bobby Jean Leithead Todd  
Planning Director  
Planning Department  
County of Hawaii  
101 Aupuni Street, Suite 3  
Hilo, HI 96720  

Dear Ms. Todd:

Special Management Area Use Permit Requirements for  
Well Construction/Pump Installation Permit Application  
Poo Wai Well (Well No. 3586-37)  

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

We would appreciate your comments on the captioned application with regard to the SMA permitting  
requirements specific to your division. Please respond by returning this cover memo form by May 24,  
2010. 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.

Sincerely,

[Signature]

LAURA H. THIELEN  
Chairperson

RESPONSE:

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

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

[ ] No objections

[ ] Other comments:

Contact Person: _____________________________  Phone: _____________________________

Signed: _____________________________  Date: _____________________________
Assessed values and Building Details reflect tax year 2010 for Oahu, and 2009 for all other islands. Taxes reflect tax year 2009.

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This information has been supplied by third parties and has not been independently verified by Hawaii Information Service and is, therefore, not guaranteed.

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Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at (808) 587-3295.
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**KS: LINE (1) Pole Wai Well**
**LINE (2) Wellness Well**
**LINE (3) Akagi No Mizu Well**
**LINE (4) Shiva Jah Mango Well**
**LINE (5) Sandy's Well**
**LINE (6)                                               **
**LINE (7)                                               **
**LINE (8)                                               **
**LINE (9)                                               **
**LINE (10)                                              **
STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE MANAGEMENT  
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT  

Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 521, Honolulu, Hawaii 96809. Application must be accompanied by 10 copies and a non-refundable fee of $25.00 payable to the Dept of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 967-0328. For further information and updates to this form, visit http://www.hawaii.gov/dlnr/cwrm.

1. Proposed Site:
   - Wells: 1
   - Well Name: Po'o Wai Well
   - Proposed Work: Construction
   - Well Owner's Contact: Phil Whitman

2. Proposed Use:
   - Residential
   - Other (describe):
     - Irrigation (describe crop and number of acres):
     - Military (describe):
     - Other (describe):

3. Other Legal Requirements if required, items 22. and 23. must be obtained by:
   - Conservation District Use Permit (COP)
   - Other:

4. Method of Measurement:
   - X-Flow meter
   - Other:

5. Proposed Pumping Rate, gpm (gallons per minute):
   - 16

6. Proposed Amount of Withdrawal not to exceed:
   - 250

7. Other Acc.:
   - X

8. Address:
   - 966-4129

9. Email:
   - diamond.drilling.pump@gmail.com

10. Signature:
    - Rodney K Diamond

11. Date:
    - 2-22-10

12. PRINT INSTALLER (Must be filled out if application is for Pump Installation):
    - Rodney K Diamond
    - BC23379
    - C-57/C-578/A License No.
    - 2-22-10

13. INSTALLER SIGNATURE:
    - Rodney K Diamond

14. INSTALLER PRINT:
    - Rodney K Diamond

15. INSTALLER ADDRESS:
    - HCR #3 Box 14073 Keaau HI 96749

16. INSTALLER PHONE:
    - 987-8100

17. INSTALLER FAX:
    - 966-4129

18. INSTALLER EMAIL:
    - diamond.drilling.pump@gmail.com

19. INSTALLER SIGNATURE:
    - Rodney K Diamond

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    - 966-4129

24. INSTALLER EMAIL:
    - diamond.drilling.pump@gmail.com

25. NOTE: This form is for application purposes only. The application must be accompanied by all necessary permits and fees.
WELL SECTION (Please attach schematic if different from diagram provided below)

Hole Diameter: 3.5 inches

at top of casing: 36 ft. msl

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

Ground Elevation: 35 ft. msl

Please refer to the
HAWAII WELL CONSTRUCTION AND
PUMP INSTALLATION STANDARDS
to ensure that your well is in compliance with applicable standards.

| Solid Casing: (≈ 90% x (Ground Elev.-Water Level Elev)) |
|-----------|-----------|
| Total Length: 35 ft. |
| Nominal Diameter: 4.5 in. |
| Wall Thickness: 5/4 in. |
| Bottom Elevation: 5 ft. msl* |

| Open Casing: [ ] Perforated [ ] Screen |
|-----------|-----------|
| Total Length: 5 ft. |
| Nominal Diameter: 4.5 in. |
| Wall Thickness: 5/4 in. |
| Bottom Elevation: 5 ft. msl* |

estimated water level elevation:

2 ft. msl*

An overall elevation must be referenced to mean sea level (msl) of application filing. Final elevations of well components shall be surveyed to nearest 0.01 ft.

[ ] bentonite or mud should be used in bottom elevation of
ABS Plastic
PVC Plastic
Stainless Steel:
Carbon
Fiberglass Plastic:
As Plastic
PTE:

[ ] Grout:

[ ] cement gravel: 28
min. 70% of distance from crown elevation to top of annular space between hole casing (1.5" for positive displacement, 3" for other methods).

2 ft.

Rock or Gravel Packing:
12 ft.
Material:
[ ] x Crushed Basalt
[ ] Round gravel

Estimated water level elevation:
2 ft. msl*

in-well water basin wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, in elevation of Well Limit = (Water Elevation - 41 x Water Level Elevation / 4) + (Estimated + 2 ft. Water Level Elev.)

Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your well is in compliance with applicable standards.

Jd 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 A424 (or A606) [ ] Type E [ ] Type S [ ] Grade B [ ] Other

Stainless Steel: (check one):
[ ] ASTM A409 (production wells) [ ] ASTM A312 (monitor wells)

in-well water basin wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, in elevation of Well Limit = (Water Elevation - 41 x Water Level Elevation / 4) + (Estimated + 2 ft. Water Level Elev.)

Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your well is in compliance with applicable standards.

PVC Plastic: (check one)
[ ] Filament Wound Resin Pipe conforming to ASTM D2996
[ ] Centrifugally cast Resin Pipe conforming to ASTM D2996
[ ] Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
[ ] Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
[ ] PTFE Fluorocarbon Tubing conforming to ASTM D3296
[ ] FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
Carbon Steel: compliant with (check one or more):
[ ] ANSI/AWWA C200
[ ] API Spec. 5L
[ ] ASTM A53
[ ] ASTM A139

And compliant with (check one or more):
[ ] ASTM A424 (or A606) [ ] Type E [ ] Type S [ ] Grade B [ ] Other

Stainless Steel: (check one):
[ ] ASTM A409 (production wells) [ ] ASTM A312 (monitor wells)

PVC Plastic: (check one)
[ ] Filament Wound Resin Pipe conforming to ASTM D2996
[ ] Centrifugally cast Resin Pipe conforming to ASTM D2996
[ ] Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
[ ] Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
[ ] PTFE Fluorocarbon Tubing conforming to ASTM D3296
[ ] FEP Fluorocarbon Tubing conforming to ASTM D3296

WCPI App. Form 5/2009
of Hawai‘i Land Use Commission Verbal Interpretation

Map Key 1-5-032: 053, Hawaiian Paradise Park, 
Puna, Hawai‘i

Mon, Feb 22, 2010 at 12:29 PM

Ms. Diamond,

Subject property is deemed to be within the State Land Use (SLU) Agricultural / Conservation District.

SLU Agricultural / Conservation District location is subject to a valid certified shoreline survey.

Is south or mauka of the valid certified shoreline is deemed to be SLU Agricultural. Lands located north or all of the valid certified shoreline is within the SLU Conservation District.

If you require clarification or further assistance please feel free to contact our office at 808.587.3822.

hilo,

3d Talon
State Land Use Commission
Phone: (808) 587-3822
Fax: (808) 587-3827
Email: ftalon@dbedt.hawaii.gov or luc@dbedt.hawaii.gov
Website: http://luc.state.hi.us
Dear Ms. Diamond,

The subject property is deemed to be within the State Land Use (SLU) Agricultural / Conservation District.

The SLU Agricultural / Conservation District location is subject to a valid certified shoreline survey.

Lands south or mauka of the valid certified shoreline is deemed to be SLU Agricultural. Lands located north or makai of the valid certified shoreline is within the SLU Conservation District.

If you require clarification or further assistance please feel free to contact our office at 808.587.3822.

Mahalo,
Fred Talon
State Land Use Commission
Phone: (808) 587-3822
Fax: (808) 587-3827
E-Mail: ftalon@dbedt.hawaii.gov or luc@dbedt.hawaii.gov
Website: http://luc.state.hi.us