WELL CONSTRUCTION PERMIT

Kingston Well, Well No. 1222-13

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 Kingston Well (Well No. 1222-13) at TMK (2) 5-1-005:047-2, Kauai, 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/cwrmlresources_permits.htm). The permittee shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson. No withdrawal of water shall be made for purposes other than testing without a Certificate of Pump Installation Completion. The permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity.

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

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

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

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

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

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

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

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

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

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

14. If the well is not to be used it must be properly capped. If the well is to be abandoned during the course of the project then the permittee must apply for a well abandonment permit in accordance with §13-168-12(0), HAR, prior to any well sealing or plugging work.

15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, or demand for property damage, personal injury, or death arising out of any act or omission of the applicant, assigns, officers, employees, contractors, or 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(0), HAR.

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

Date of Approval: January 10, 2011
Expiration Date: January 10, 2013

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

Driller's Signature: [Signature]
C-57 License #: C-29578
Date: 5-20-11
Printed Name: Michael LLuellen
Firm or Title: Kauai Water Well

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

Attachment
Mr. Michael Lluellen
Kauai Water Well
P.O. Box 431
Anahola, HI 96703

Dear Mr. Lluellen:

Well Construction Permit
Kingston Well (Well No. 1222-13)

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

Special Conditions

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

2. Grout sealing of annulus shall be accomplished in lifts of less than 200 ft. and allowed to cure for at least 24 hours before the next lift is poured.

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/cwrml circulated.

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

If you have any questions, please call Charley Ice of the Commission staff at 587-0218 or toll-free at 274-3141 (Kauai), extension 70218.

Sincerely,

WILLIAM J. AILA, JR.
Interim Chairperson

Enclosures

c: √David Kingston (with applicable comments – DOH SDWB, CWB)
January 18, 2011

Mr. Michael Lluellen
Kauai Water Well
P.O. Box 431
Anahola, HI 96703

Dear Mr. Lluellen:

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.

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

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

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

If you have any questions, please call Charley Ice of the Commission staff at 587-0218 or toll-free at 274-3141 (Kauai), extension 70218.

Sincerely,

[Signature]

WILLIAM J. AILA, JR.
Interim Chairperson

Enclosure

c: David Kingston
PUMP INSTALLATION PERMIT
Kingston Well, Well No. 1222-13

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 Kingston Well (Well No. 1222-13) at TMK (2) 5-1-005:047-2, Kauai, 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 49 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: January 10, 2011
Expiration Date: January 10, 2013

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

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

Installer’s Signature: C-57, C-57a, or A License #: C-29578 Date: 
Printed Name: Michael Lluellen Firm or Title: Kauai Water Well

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

Attachments
Mr. Michael Lluellen  
P.O. Box 431  
Anahola, HI 96703

Dear Mr. Lluellen:

Well Construction Permit  
Kingston Well (Well No. 1222-13)

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

**Special Conditions**

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

2. Grout sealing of annulus shall be accomplished in lifts of less than 200 ft. and allowed to cure for at least 24 hours before the next lift is poured.

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/cwrmlforms.htm.

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

If you have any questions, please call Charley Ice of the Commission staff at 587-0218 or toll-free at 274-3141 (Kauai), extension 70218.

Sincerely,

WILLIAM J. AILA, JR.  
Interim Chairperson

Enclosures

c: David Kingston (with applicable comments – DOH SDWB, CWB)
WELL CONSTRUCTION PERMIT

Kingston Well, Well No. 1222-13

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 Kingston Well (Well No. 1222-13) at TMK (2) 5-1-005:047-2, Kauai, subject to the Hawaii Well Construction & Pump Installation Standards (HWCPIS - February 2004) which include but are not limited to the following conditions:

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

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

3. The well construction permit shall be for construction and testing of the well only. The permittee shall coordinate with the Chairperson and conduct a pumping test in accordance with the HWCPIS (the latest pump test worksheet can be obtained by contacting Commission staff or at www.hawaii.gov/dlnr/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.

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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.

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

15. The permittee, its successors, and assigns shall indemnify, defend, and hold the State of Hawaii harmless from and against any loss, liability, claim, 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.

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

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Date of Approval: January 10, 2011
Expiration Date: January 10, 2013

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

Driller’s Signature: C-57 License #: C-29578 Date: Michael LLuellen

Printed Name: Michael LLuellen Firm or Title: Kauai Water Well

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

Attachment
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE 5/19/05

FROM: CHARLEY
DATE: 12 Jan 11
SUSPENSE DATE: ___________

TO: ANAKALEA, P. INIT. TO: KUNIMURA, I. INIT. FOR: Approval
BAUER, G. INIT. NAKAMA, L. INIT. Signature
CHING, F. INIT. NAKANO, D. INIT. Information
DANBARA, S. INIT. OHYE, M. INIT. _____
FUJII, N. INIT. SAKODA, E. INIT. _____
GOODING, K. INIT. SUBIA, S. INIT. _____
HARDY, R. INIT. SWANSON, S. INIT. _____
HIGA, D. INIT. UYENO, D. INIT. _____
ICE, C. INIT. YODA, K. INIT. _____
IMATA, R. INIT. YOSHINAGA, M. INIT. _____

WELL NUMBER 1222-13

Kingston Well

WELL CONSTRUCTION

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

TO BE SENT TO APPLICANT

FOR OFFICE USE ONLY

PUMP INSTALLATION

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

TO BE SENT TO APPLICANT

FOR OFFICE USE ONLY
## Well Check Program
4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

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<tr>
<th><strong>Well Number</strong></th>
<th>1222-13</th>
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<tbody>
<tr>
<td><strong>Well Name</strong></td>
<td>Kingston</td>
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<tr>
<td><strong>Ground Elevation</strong></td>
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<td><strong>Cement Grout</strong></td>
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<td><strong>Grouting Method</strong></td>
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<td><strong>Hole Diameter</strong></td>
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<td><strong>Total Depth</strong></td>
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<td><strong>Water Level</strong></td>
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<td><strong>Public Water Supply Well?</strong></td>
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<td><strong>Solid Casing Material</strong></td>
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<td><strong>Solid Casing Specification</strong></td>
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<td><strong>Solid Casing Length</strong></td>
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<td><strong>Solid Casing Diameter</strong></td>
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<td><strong>Solid Casing Wall Thickness</strong></td>
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<td><strong>Open Casing Length</strong></td>
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</table>

### Results

#### Well Depth
- **Theoretical Thickness of Aquifer**: 820
- **1/4 Aquifer Thickness**: 205
- **Depth of Well below Sea Level**: -50

#### Well Casing
- **Minimum Wall Thickness**
  - **Material**: PVC plastic
  - **Minimum Thickness per standards**: no requirement
  - **Thickness Provided**: 0.25
  - **Section**: 2.4(b)
  - **Standard**: no standard
- **Minimum Length of Solid Casing**: 162
- **Length of solid casing Provided**: 180
  - **Section**: 2.4(c)
  - **Compliance**: in compliance
- **Casing Material**: Schedule 40
- **Depth of Grouting**
  - **Calculated Depth of Grouting**: 126
  - **Depth of Grouting provided**: 175
  - **Section**: 2.6(c)
  - **Minimum Annular Space required**: 1.5
  - **Thickness of Annular Space**: 3
  - **Section**: 2.6(d)

---

**Section 2.2**
- **Schedule**: 40
- **Compliance**:深 in excess of required for plastic
- **Annular Space**: Deep for plastic

**Section 2.4**
- **Schedule**: 40
- **Compliance**: no standard
- **Annular Space**: 3

**Section 2.6**
- **Schedule**: 40
- **Compliance**: in compliance
<table>
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<tr>
<th>Category</th>
<th>Steel Standards</th>
<th>Stainless Steel Standards</th>
<th>Plastic Standards</th>
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<td>ANSI/AWWA C200</td>
<td>ASTM A409</td>
<td>Schedule 40</td>
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<td>PVC Plastic Schedule 80</td>
<td>API Spec. 5L</td>
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<td>Other</td>
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Positive Displacement

<table>
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<tr>
<td>Steel Non-Public</td>
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</table>
Subject: National Pollutant Discharge Elimination System Regulations for the Well Construction/Pump Installation Permit Application(s) for the Subject Well(s)

Dear Mr. Ice:

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

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 (HAR), Title 11, Chapter 55, Appendix I, effective October 22, 2007, and compiled June 15, 2009. 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 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.

3. 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.

Thank you for the opportunity to comment,

Joanna

Joanna L. Seto
Engineering Section Supervisor
Clean Water Branch
State of Hawaii Department of Health
Phone: (808) 586 - 4309
Fax: (808) 586-4352

Notice: This information and attachments are intended only for the use of the individual(s) or entity to which it is addressed, and may contain information that is privileged and/or confidential. If the reader of this message is not the intended recipient any dissemination, distribution, or copying of this communication is strictly prohibited and may be punishable under state and federal law. If you have received this communication and/or attachments in error, please notify the sender via email immediately and destroy all electronic and paper copies.

From: Susan S Hoagbin/DLNR/StateHiUS@STATEHIUS@DOHMAIL On Behalf Of Susan S Hoagbin/DLNR/StateHiUS@DOHMAIL
Sent: Thursday, December 09, 2010 9:34 AM
To: Morikami, Lori N; Miyahira, Michael M; Seto, Joanna L; Palmer, Richard
Cc: Charley F Ice
Subject: Review for Comments

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

<< File: 1222-12, 7051-01, 1120-57, 1222-13, PDF >>
December 9, 2010

TO: Russell Tsuji, Administrator
   Land Division

FROM: Lenore N. Ohye, Acting Deputy Director
       Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Kingston Well (Well No. 1222-13) TMK (4) 5-1-005:047-2

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 January 10, 2011. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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

RESPONSE:

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

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

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

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

[ ] No objections

[ ] Other comments: Original source of private title is Grant 381 issued prior to statehood.

Contact Person: Gary Martin Phone: 587-0421

Signed: ____________________ Date: 12/27/10
Attached are the CWRM applications with our comments.

<<1222-12, 7051-01, 1120-57, 1222-13,.PDF>>
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 821
HONOLULU, HAWAI'I 96820

December 9, 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 Kawaoka, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Kingston Well (Well No. 1222-13) TMK (4) 5-1-005:047-2
Well address: 7 East Waiakalua Road

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by January 10, 2011. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

CLASS
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 30, Rules Relating to Public Water Systems, §§11-30-29

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 obtaining 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 segments 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 [Ie.,] is set located near the proposed well site (information attached).

An NPDES permit is required

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

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

No comments/objections

Contact Person: Michael Miquihira Phone: 587-4258
Signed: Date: 12/13/10
WELL LOCATION INFORMATION

1. STATE WELL NO. (if already assigned)  
2. WELL NAME  
3. ISLAND  
4. TMIK
5. WELL OPERATOR'S NAME/COMPANY
6. LANDOWNER'S NAME/COMPANY

PROPOSED WELL CONSTRUCTION

- Construct New Well  
- Modify Existing Well  
- Abandon/Seal Well

PROPOSED PUMP INSTALLATION

- Well Diameter
- Construction Type
- Drilled
- Slotted
- Cased
-og
- Shaft
- Tunnel

- Proposed Work
- Install New Pump  
- Replace Pump

- Proposed Pump Capacity, gpm (gallons per minute)

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

PROPOSED USE

- Municipal: (water systems serving greater than 25 individuals or 15 service connections)
- Industrial (describe)
- Irrigation (describe crop and no. of acres)
- Military (describe)
- Other (describe)

OTHER LEGAL REQUIREMENTS

- Conservation District Use Permit (CDUP)
- Special Management Area Permit (SMAP)
- Required, SMA #: date approved
- Not Required, attach documentation from OCCC
- I have not checked with OCCC, about whether or not a C D U P is required.
- I have not checked if well is in or out of Conservation District.

- I have consulted with the H P D regarding potential impacts of well construction activities on historic sites.
- I have consulted applicable documentation from the H P D.

WATER USE PERMIT NO. (if applicable): ____________

ADDITIONAL REMARKS, EXPLANATIONS, ETC. (attach additional sheet if more space is needed)

NOTE: Signing below indicates that the signatures understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatures understand that upon 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 sixty (60) days after the completion date of the permitted work; and 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.
**CWRM Application Source:** Kingston Well  
State Well No. 1222-13  
**TMK:** (4) 5-1-005:047-2

**Safe Drinking Water Branch (SDWB) - Engineering Section**

- See attached Private Wells information sheet.

**SDWB Underground Injection Control (UIC) Section**

Injection wells used for the subsurface disposal of wastewater, sewage effluent, or surface runoff are subject to environmental regulation and permitting under Hawai‘i Administrative Rules, Title 11, Chapter 11-23, titled Underground Injection Control (UIC). The Department of Health’s approval must be first obtained before any injection well construction commences. A UIC permit must be issued before any injection well operation occurs.

Authorization to use an injection well is granted when a UIC permit is issued to the injection well facility. The UIC permit contains discharge and operation limitations, monitoring and reporting requirements, and other facility management and operational conditions. A complete UIC permit application form is needed to apply for a UIC permit.

A UIC permit can have a valid duration of up to five years. Permit renewal is needed to keep an expiring permit valid for another term. For further information about the UIC permit and the Underground Injection Control Program, please contact the UIC staff of the Safe Drinking Water Branch at 586-4258.

The UIC Program has the following comments specific to this Application:

1. The siting of a drinking water source below the UIC line may restrict new and existing injection well construction. New injection wells will be prohibited within setback areas defined in Chapter 11-23. If this drinking water source will serve a regulated public water system, the applicant will be required to inform landowners located within the setback surrounding the well of this proposed action because it will affect the injection well development potential of their properties.

2. Well water quality should be initially and periodically tested for it's 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.

*CWRM Well Application Standard Comments (SDWB)*

_Vers. 9/30/09_
3. The proposed well section details [are inconsistent] [appear to be in error] and should be corrected.
**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 ground water.

**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/whatyoucando.html](http://www.epa.gov/safewater/privatewells/whatyoucando.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/pdf/Testing%20Labs.pdf](http://www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdf/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.

---

*CWRM Well Application Standard Comments (SDWB)*

*Vers. 9/30/09*
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 (http://www.epa.gov/safewater/mcl.html) and State (www.hawaii.gov/health/environmental/water/sdwb/sdwb/pdf/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.

CWRM Well Application Standard Comments (SDWB)
Vers. 9/30/09
Charley,

Here are the latest Well Permit Applications. I just received another batch, which I'll complete after the holidays.

Richard well-permits12-20-2010.pdf
December 9, 2010

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 Kawaoa, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Kingston Well (Well No. 1222-13) TMK (4) 5-1-005:047-2
Well address: 7 East Waialua Road

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by January 10, 2011. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

Co: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 pipes 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/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/objections

Contact Person: Richard Palmer
Phone: 587-0957
Signed: Richard Palmer
Date: 20 Dec. 2010
Mr. Michael Lluellen
Kauai Water Well
P.O. Box 431
Anahola, HI 96703

December 9, 2010

Dear Mr. Lluellen:

Well Construction/Pump Installation Permit Application for Well No. 1222-13

We acknowledge receipt, on November 16, 2010, of your completed Well Construction/Pump Installation permit application and filing fee for the Kingston Well (Well No. 1222-13). 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 Charley Ice of the Commission staff at 587-0218 or toll-free at 274-3141 (Kauai), extension 70218.

Sincerely,

[Signature]
LENORE N. OHYE
Acting Deputy Director

CI: ss
Attachment

c: David Kingston
December 9, 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 Kawaoka, Office of Hazard Evaluation and Emergency Response

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

SUBJECT: Well Construction/Pump Installation Permit Application
Kingston Well (Well No. 1222-13) TMK (4) 5-1-005:047-2
Well address: 7 East Waiaikalua Road

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by January 10, 2011. If we do not receive comments or a request for additional review time by this date, we will assume that you have no comments.

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

CI: ss
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (defined as serving 25 or more people at least 60 days per year or has 15 or more service connections) and must receive Director of Health approval prior to its use to comply with Hawaii Administrative Rules (HAR), Title 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: ____________________
December 9, 2010

TO: Russell Tsuji, Administrator
   Land Division

FROM: Lenore N. Ohye, Acting Deputy Director
   Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Kingston Well (Well No. 1222-13) TMK (4) 5-1-005:047-2

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 January 10, 2011. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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

CI:ss
Attachment(s)

RESPONSE:

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

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

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

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

[ ] No objections

[ ] Other comments:

Contact Person: ______________________ Phone: __________________

Signed: ______________________ Date: ____________
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 January 10, 2011. If we do not receive comments or a request for additional review time by this date, we will assume you have no comments.

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

RESPONSE:

[ ] This is a [ ] public (county or state) project [ ] private project and [ ] 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: _____________
Mr. Ian Costa, Director  
Planning Department  
County of Kauai  
4444 Rice Street, Ste. A473  
Lihue, Hawaii 96766  

Dear Mr. Costa:

Special Management Area Use Permit Requirements for  
Well Construction/Pump Installation Permit Application  
Kingston Well (Well No. 1222-13)  

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 January 10,  
2011.** If we do not receive comments or a request for additional review time by this date, we will assume you  
have no comments.

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

Sincerely,

[Signature]

WILLIAM J. AILA, JR.
Interim 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: __________________

Class
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<th>Attachment</th>
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<td>Trans. Letter</td>
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<td>2</td>
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FOLDER:
- Made new file folder, attached
- File folder already made, in file cabinet

INCOMPLETE ACTION DATES:

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**TOTAL** $50.00

**REMARKS:**

LINE (1) Kuiaha-Adelman Well
LINE (2) TMK: -5-1-005"047:02 (David Kingston)
LINE (3)
LINE (4)
LINE (5)
LINE (6)
LINE (7)
LINE (8)
LINE (9)
LINE (10)
## Search Results

**Search criteria:** TMK Taxkey 4-5-1-5-47

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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.

**Copyright ©12/6/2010 by Hawaii Information Service**
COMMISSION:

Please consider the use of Sch 40 PVC casing below the depth of 200' should be needed within reason. The water level will be above the 200' mark as sea level is 180'-200' below site. The grout lift will be shortened as to ten feet.

Thank you,

Michael Luellen
Kauai Water Well
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT

In order to successfully fill out this form, all items with * must be completed for the application to be accepted.

WELL LOCATION INFORMATION

1. STATE WELL NO. (if already assigned)
2. WELL NAME
3. ISLAND
4. TMK 5. zone 6. sec 7. pat 8. parcel

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

WELL OPERATOR'S NAME/COMPANY

Address

POB 500

PMB 239

Rancho Santa Fe, CA 92067

WELL OPERATOR'S MAILING ADDRESS

Well Operator’s Phone

Landowner’s Phone

Landowner’s Fax

Landowner’s E-mail

WELL OPERATOR’S E-mail

5. WELL NAME

Proposed Work

Construct New Well

Modify Existing Well

Abandon/Seal Well

8. Construction Type

Drilled

Dug

Shaft

Tunnel

7. Proposed Pump Capacity, gpm (gallons per minute) 9. Proposed Method of flow measurement

Flow meter

Other (explain)

PROPOSED WELLS CONSTRUCTION

PROPOSED PUMP INSTALLATION

10. Proposed Work

Install New Pump

Replace Pump

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

2500

12. Proposed Well Number

WELL NAME

Abandon/Seal

Construct New

Modify Existing

Abandon/Seal

13. Method of flow measurement

Flow meter

Other (explain)

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 date approved

Not Required (attach documentation from OCC)

I have not checked with OCC about whether or not a CDUP is required.

Well is not in Conservation District

I have not checked if well is in or out of Conservation District.

23. State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources

I have consulted with the SHPD regarding potential impacts of well construction activities on historic sites. I have attached applicable documentation from the HPD.

I have not consulted with the SHPD regarding potential impacts of well construction activities on historic sites.

25. Water Use Permit No. (if applicable):

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

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

26. WELL DRILLER

License business name

Signature

Address

Phone

Fax

E-mail

Further, the signatures understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date, 2) the contractor is to submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work, 3) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $5000/day.

27. PUMP INSTALLER

License business name

Signature

Address

Phone

Fax

E-mail

For Official Use Only:

2010 NOV 15 AM 10:44

WCPI Application Form 08/31/2010
**PROPOSED WELL SECTION**

*(Please attach schematic if different from diagram provided below)*

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
  - And compliant with (check one or more): □ ASTM A242 (or A606) □ Type E □ Type S □ Grade B □ Other
- Stainless Steel: (check one): □ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
- ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one): □ Schedule 40 □ Schedule 80
- PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
- Thermoset Plastic: (check one)
  - □ Filament Wound Resin Pipe conforming to ASTM D2996
  - □ Centrifugally Cast Resin Pipe conforming to ASTM D2997
  - □ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  - □ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  - □ PTFE Fluorocarbon Tubing conforming to ASTM D3296
  - □ FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
  - And compliant with (check one or more): □ ASTM A242 (or A606) □ Type E □ Type S □ Grade B □ Other
- Stainless Steel: (check one): □ ASTM A409 (production wells) □ 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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  - □ PTFE Fluorocarbon Tubing conforming to ASTM D3296
  - □ FEP Fluorocarbon Tubing conforming to ASTM D3296

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**Ground Elevation:**
- 20 ft., msf

**Estimated Water Level Elevation:**
- 10 ft., msf

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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 = \( \left( \frac{\text{Water Elevation} - \text{Aquifer Thickness}}{4} \right) \)

Example: Estimated + 2 ft. Water Level Elev. = Bottom Elevation of Well Limit = (2 - \( \frac{10 - 1.5}{4} \)) = -16.5 ft.

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**HAWAII WELL CONSTRUCTION STANDARDS**

Please refer to the WCPI Application Form 08/31/2010

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WCPI Application Form 08/31/2010
PROPOSED KINGSTON WELL