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

Search criteria: TMK Taxkey 4-5-3-2-8

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<td>0 0 14,288 sqft 0</td>
<td>2/7/2006 DEED $295,00</td>
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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 ©3/16/2010 by Hawaii Information Service
Aloha Charley -
Please accept this note as our two week notice to begin drilling the Kalihiwai Oasis Well No. 1226-01.
Mahalo,
Betsy Lis
Oasis Water Systems, Inc.
826-1854
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<th>DATE: ___</th>
<th>Init.</th>
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Please note receipt of my previous memo. Please update issue date when you get yellow copy.
Hi Charley -
Attached please find executed well construction and pump installation permits for your files. Hardcopy to follow.
Aloha,
Betsy Lis
Oasis Water Systems, Inc.
826-1854
WELL CONSTRUCTION PERMIT
Kalihiwai Oasis, Well No. 1226-01

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Kalihiwai Oasis (Well No. 1226-01) at TMK (4) 5-3-002:008, 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/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 basaltic ground water, the depth of the well may not exceed one-fourth (1/4) of the theoretical thickness of the basaltic ground water unless otherwise authorized by the Chairperson. If it can be shown that the well does not tap basaltic ground water then this condition may be waived after consultation with and acceptance by Commission staff. However, in no instance can the well be drilled deeper than one-half (1/2) of the theoretical thickness without Commission approval.

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

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

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

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

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

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

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

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

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

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

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

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

Date of Approval: April 19, 2010
Expiration Date: April 19, 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: Elizabeth Lis  C-57 License #: C-21457 Date: 5/17/2010
Printed Name: Elizabeth Lis  Firm or Title: Oasis Water Systems, Inc.

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

Attachment
PUMP INSTALLATION PERMIT
Kalihiwai Oasis, Well No. 1226-01

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Kalihiwai Oasis (Well No. 1226-01) at TMK (4) 5-3-002:008, 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 45 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 permittee, its successors, and 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: April 19, 2010
Expiration Date: April 19, 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 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: [Signature] C-57, C-57a, or A License #: C-21457 Date: 5/17/2010

Printed Name: Elizabeth Lis Firm or Title: Oasis Water Systems, Inc.

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

Attachments
WELL CONSTRUCTION PERMIT
Kalihiwai Oasis, Well No. 1226-01

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the construction and testing of Kalihiwai Oasis (Well No. 1226-01) at TMK (4) 5-3-002-009, 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.

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 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.

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

Date of Approval: April 19, 2010
Expiration Date: April 19, 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 #: C-21457 Date: 5/7/2010

Printed Name: Elizabeth Lis Firm or Title: Oasis Water Systems, Inc.

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

Attachment
PUMP INSTALLATION PERMIT
Kaliihiwai Oasis, Well No. 1226-01

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

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the pump installation for Kaliihiwai Oasis (Well No. 1226-01) at TMK (4) 5-3-002:008, 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 45 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: April 19, 2010  Expiration Date: April 19, 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 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-21457 Date: 5/7/2010

Printed Name: Elizabeth Lis  Firm or Title: Oasis Water Systems, Inc.

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

Attachments
Ms. Elizabeth Lis  
Oasis Water Systems, Inc.  
P.O. Box 507  
Hanalei, HI 96714

Dear Ms. Lis:

Pump Installation Permit  
Kalihiwai Oasis (Well No. 1226-01)

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

LAURA H. THIELEN  
Chairperson

Enclosure

c:  Russell Josephson and Vera Benedek  
USGS  
Kauai DWS
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 Kalihiwai Oasis (Well No. 1226-01) at TMK (4) 5-3-002:008, 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 45 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: April 19, 2010
Expiration Date: April 19, 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 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-21457 Date: 

Printed Name: Elizabeth Lis Firm or Title: Oasis Water Systems, Inc.

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

Attachments
Ms. Elizabeth Lis
Oasis Water Systems, Inc.
P.O. Box 507
Hanalei, HI 96714

Dear Ms. Lis:

Well Construction Permit
Kalihawai Oasis (Well No. 1226-01)

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/cwrm/forms.htm.

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

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

Sincerely,

Laura H. Thielen
Chairperson

Enclosures

c: Russell Josephson and Vera Benedek (with applicable comments – DOH WWB, CWB, HEER)
USGS
Kauai DWS
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 Kalihiwai Oasis (Well No. 1226-01) at TMK (4) 5-3-002:008, 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 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 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.

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

Date of Approval: April 19, 2010
Expiration Date: April 19, 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 #: C-21457 Date: ___________________________

Printed Name: Elizabeth Lis Firm or Title: Oasis Water Systems, Inc.

Please sign both copies of this permit, return one copy to the Commission office, and retain the other for your records.
COMMISSION ON WATER RESOURCE MANAGEMENT
ROUTE SLIP FOR PERMIT ISSUANCE 5/19/05

FROM: CHARLEY ANAKALEA, P. BAUER, G. CHING, F. DANBARA, S. FUJII, N. GOODING, K. HIGA, D. ICE, C. IMATA, R.
DATE: 5/19/05 SUSPENSE DATE: ____________

TO: ANAKALEA, P. KUNIMURA, I. NAKANO, D. OHYE, M. SAKODA, E. SUBIA, S. SWANSON, S. UYENO, D. YODA, K. YOSHINAGA, M.
INIT: _______ _______ _______ _______ _______ _______ _______ _______ _______
TO: NAKAMA, L. NAKANO, D. OYAMA, M. SAKODA, E. SWANSON, S. UYENO, D. YODA, K. YOSHINAGA, M.
INIT: _______ _______ _______ _______ _______ _______ _______ _______
FOR: Approval Signature Information
PLEASE: See Me 1 Review & Comment Take Action 3 Information
Type Draft 2 Type Final 4 File
_________ Xerox _______ copies

WELL NUMBER 1226-01 Kaliihiwai Oasis

☑ WELL CONSTRUCTION

ATTACHMENTS FOR WELL CONSTRUCTION PERMIT:
1 COVER LETTER
2 PERMIT (2x) COMMENTS:
3 SDWB
4 WWB
5 CWB
6 HEER
7 LD
8 HP
9 OCCL
10 SMA
TO BE SENT TO APPLICANT
FOR OFFICE USE ONLY

☑ PUMP INSTALLATION

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:
1 COVER LETTER
2 PERMIT (2x) COMMENTS:
3 SDWB
4 WWB
5 CWB
6 HEER
7 LD
8 HP
9 OCCL
10 SMA
TO BE SENT TO APPLICANT
FOR OFFICE USE ONLY

11 WELL CHECK PRINTOUT
11 OILISH WORKSHEET
## Well Check Program
4/1/04 - Revised for update to Well Standards (February 2004)

### Data Input

<table>
<thead>
<tr>
<th>Well Number</th>
<th>1226-01</th>
</tr>
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<tbody>
<tr>
<td>Well Name</td>
<td>Kalihiwai Oasis</td>
</tr>
<tr>
<td>Ground Elevation</td>
<td>10</td>
</tr>
<tr>
<td>Cement Grout</td>
<td>42</td>
</tr>
<tr>
<td>Grouting Method</td>
<td>positive displacement</td>
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<td>Hole Diameter</td>
<td>13</td>
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<tr>
<td>Total Depth</td>
<td>60</td>
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<tr>
<td>Water Level</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 Specification</td>
<td>ASTM A53</td>
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<td>Open Casing Length</td>
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</table>

### Results

#### Well Depth

| Theoretical Thickness of Aquifer | 82 |
| 1/4 Aquifer Thickness | 20.5 |
| Depth of Well below Sea Level | -50 too deep |

#### Well Casing

| Minimum Wall Thickness Material | steel |
| Minimum Thickness per standards | #N/A |
| Wall Thickness Provided | 0.25 no standard |
| Minimum Length of Solid Casing | 7.2 |
| 90% of ground to top of aquifer | 4 |
| Length of solid casing Provided | 40 okay |
| Casing Material | ASTM A53 in compliance |
| (for pvc only - check for 200' limit) | okay |

#### Annular Space

| Depth of Grouting Calculated Depth of Grouting | 5.6 |
| Depth of Grouting provided | 42 okay |
| Minimum Annular Space required | 1.5 |
| Thickness of Annular Space | 3.5 okay |

| yes |
| no |

<p>| steel |
| stainless steel |</p>
<table>
<thead>
<tr>
<th>Material</th>
<th>Standards</th>
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<td>Thermoset plastic</td>
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<tr>
<td>Other</td>
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<tr>
<td>Steel</td>
<td>ANSI/AWWA C200</td>
<td>API Spec. 5L</td>
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<tr>
<td></td>
<td>ASTM A53</td>
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<td>ASTM A139</td>
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<td>Steel public</td>
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<td>PVC Plastic</td>
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<td>Schedule 80</td>
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</tbody>
</table>
March 19, 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: Laura H. Thielen, Chairperson
       Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
          Kalihiwai Oasis (Well No. 1226-01)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 19, 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 Charley Lee of the Commission staff at 587-0218.

Class: Attachment(s)

RESPONSE: UIC Remarks: Conditions #2 and #4; verify ground elevation.

1) This well qualifies as a source which will serve as a source of potable water to a public water system (as defined in 64-7, Hawaii Revised Statutes) 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.

2) 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 has 15 or more service connections) and thus 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.

3) 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 systems with warning signs to prevent inadvertent consumption of non-potable water. Backflow prevention devices should be routinely inspected and tested.

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

5) For the applicant's information, a source of possible wastewater contamination is located near the proposed well site (information attached).

6) An NPDES permit is required.

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

8) 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.

9) No comments/objections.

Contact Person: Michael Miyake

Phone: 587-4258

Date: 3/12/10
**STATE OF HAWAI'I**
**DEPARTMENT OF LAND AND NATURAL RESOURCES**
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT**

**For Official Use Only:**

**RECEIVED COMMISSION ON WATER RESOURCE MANAGEMENT**

2010 MAR 11 AM 9:24

---

### WELL LOCATION INFORMATION

<table>
<thead>
<tr>
<th>1. STATE WELL NO. (If already assigned)</th>
<th>3. ISLAND</th>
<th>4. TANK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kauai</td>
<td>5.002 : 008</td>
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The following must be attached to this application:
- A printed contour map showing the local topography and the location of the proposed well site.
- A plan showing the well location and the surrounding area.
- A water well construction permit application.
- A water well construction permit application.
- A plan showing the well location and the surrounding area.
- A water well construction permit application.
- A plan showing the well location and the surrounding area.
- A water well construction permit application.
- A plan showing the well location and the surrounding area.
- A water well construction permit application.
- A plan showing the well location and the surrounding area.
- A water well construction permit application.

---

### LANDOWNER'S NAME/COMPANY

<table>
<thead>
<tr>
<th>1. LANDOWNER'S NAME/COMPANY</th>
<th>4. LANDOWNER'S Contact</th>
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</thead>
<tbody>
<tr>
<td>Russell Joseph &amp; Vera Benedek</td>
<td>Landowner's Contact</td>
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### PROPOSED WELL CONSTRUCTION

<table>
<thead>
<tr>
<th>7. Proposed Production Type</th>
<th>8. Proposed Production Rate (gpm)</th>
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<tbody>
<tr>
<td>Drilled</td>
<td>45</td>
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<tr>
<td>Modifying Well</td>
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<tr>
<td>Abandon/Seal Well</td>
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### PROPOSED PUMP INSTALLATION

<table>
<thead>
<tr>
<th>11. Proposed Pump Model</th>
<th>12. Proposed Amount of Water (gpm per day)</th>
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<tbody>
<tr>
<td>1000</td>
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</table>

---

### PROPOSED USE

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

---

### OTHER LEGAL REQUIREMENTS

- Conservation District Use Permit (CLUD)
- Special Management Area Permit (SMAP)
- State Historic Preservation District (SHPD)
- Water Use Permit No. (if applicable)
- Additional remarks, explanations, etc. (attach additional sheet if more space is needed)

---

**NOTE:** Signing below indicates that the signatories understand and agree that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that upon permit approval: 1) the proposed work to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/land use report within thirty (30) 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 items is brought in to compliance, and any work done while the permit is in suspension may result in fines up to $5000/day.

---

### WELL DRILLER

<table>
<thead>
<tr>
<th>Licensee business name</th>
<th>C-67 License No.</th>
<th>Licensee business name</th>
<th>C-876757 License No.</th>
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</thead>
<tbody>
<tr>
<td>Oasis Water Systems Inc</td>
<td>21457</td>
<td>Elizabeth Jis</td>
<td>21457</td>
</tr>
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### PUMP INSTALLER

<table>
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<th>Licensee business name</th>
<th>C-876757 License No.</th>
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<tbody>
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<td>Elizabeth Jis</td>
<td>21457</td>
</tr>
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### SIGNATURES

<table>
<thead>
<tr>
<th>Signature</th>
<th>Print</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Elizabeth Jis</td>
<td>3-9-200</td>
<td></td>
</tr>
</tbody>
</table>

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### ADDRESS

<table>
<thead>
<tr>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 507, Hanalei, HI 96714</td>
</tr>
</tbody>
</table>
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

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 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

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 . 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) 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 Application Source: Kalihiwai Oasis Well
(Well No. 1226-01)
TMK: (4) 5-3-02: 08

Safe Drinking Water Branch (SDWB) - Engineering Section

No comments. See attached USEPA private well information.

SDWB Underground Injection Control (UIC) Section

- 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.

- 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.
March 19, 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: Laura H. Thielen, Chairperson
       Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Kalihiwai Oasis (Well No. 1226-01)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 19, 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 Charley Ice of the Commission staff at 587-0218.

CI: ss
Attachment(s)

RESPONSE:

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

[ ] 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 precautions by physically separating potable and non-potable systems by an air gap or an approved backflow preventer, and by clearly labeling all non-potable supply lines 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 [i.e. ] 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: Richard Palmer
Phone: 586-0957

LINDA LINGLE
GOVERNOR OF HAWAII
March 19, 2010

TO: Dr. Puaalaokalani Aiu, Administrator
Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application
Kalihiwai Oasis (Well No. 1226-01) TMK: (4) 5-3-002:008

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 April 19, 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 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.

Class Attachment(s)

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 McMILLAN
Phone: 692-8015

Signed: [Signature]
Date: 4/1/10
March 19, 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

Kalihiwai Oasis (Well No. 1226-01) TMK (4) 5-3-002-008

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 April 19, 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 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.

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

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

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

[ ] No objections

XX[X] Other comments: Original source of private title is Land Commission Award No. 0260:2 issued between 1845 and 1855.

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: 3/31/10
March 19, 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: Laura H. Thielen, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Kaliliwai Oasis (Well No. 1226-01)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 19, 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 Charley Ice of the Commission staff at 587-0218.

Class: Attachment(s)

RESPONSE:

[] This well serves 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 having 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, §11-29-29.

[] This well does not qualify as a source served by a public water system (serves less than 25 people or more people at least 60 days per year or 15 service connections) and of the well water is used for drinking, the private owner should test for bacteriological and chemical presence before using the same and routinely monitor the water quality thereafter. However, if future planned use from the 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-connected 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 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 [ is ] is not located near the proposed well site (information attached).

[] An NPDES permit is required.

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

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

[] No comments/objections.

Contact Person: Joanne L. Seffo
Phone: 586-6700
Date: 3-15-10

Signed: Joanne L. Seffo
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  
Kaliihiwai Oasis (Well No. 1226-01)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 19, 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 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 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: Lori Vetter, Eng. on Kauai  
241-3323

Signed: Lori Montemurro on Oahu  
Date: 3.25-2010
March 19, 2010

TO: Samuel J. Lemmo, Administrator
    Office of Conservation and Coastal Lands

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Kalihiwai Oasis (Well No. 1226-01)

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

It appears that the subject well project is in conservation land. 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 April 19, 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 Charley Ice of the Commission staff at 587-0218.

**Cl: ss**
**Attachment(s)**

**RESPONSE:**

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

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

[ ] No objections

[ ] Other comments: **Not in CD**

Contact Person: Audrey Barker                   Phone: x70317
Signed:                                                    Date: 3-19-10
April 22, 2010

Commission on Water Resource Management
P. O. Box 621
Honolulu, HI 96809

Subject: Kalihiwai Oasis Well Project
        TMK (4) 5-3-002:008

Dear Ms. Thielen:

In response to the request for a letter requesting a determination that the proposed Kalihiwai Oasis Well Project is located outside of the Special Management Area, please allow this letter to serve as the Planning Department’s response.

Should there be any questions regarding the above, please contact Coastal Zone Management planner Lisa Ellen Smith at 808-241-4499.

[Signature]
IAN K. COSTA
Planning Director

AN EQUAL OPPORTUNITY EMPLOYER
Hi Charley -
I just returned from vacation...
I have emails out to the owners asking for a course of action.
Will let you know as soon as I hear back.
Also - did you recieve the completion report part 1 for Kawela Plantation 2A?
And the Josephson's permit app? I thought I sent them in just before I left...
Aloha,
Betsy Lis
Oasis Water Systems, Inc.
826-1854

--- On Tue, 3/16/10, Charley.F.Ice@hawaii.gov <Charley.F.Ice@hawaii.gov> wrote:

From: Charley.F.Ice@hawaii.gov <Charley.F.Ice@hawaii.gov>
Subject: expiration
To: oasiskauai@yahoo.com
Date: Tuesday, March 16, 2010, 12:48 PM

Barnhouse (1221-13), and Opaekaa 1A & 1B (0221-03 & 04) have both been extended, but both have again expired. S cancel?

Charley Ice
Hydrologist
Hawaii Water Commission
1151 Punchbowl 227 Kalanimoku
P.O.Box 821, Honolulu 96809
(808) 587-0219
Ms. Elizabeth Lis
Oasis Water Systems, Inc.
P.O. Box 537
Hanalei, HI 96714

Dear Ms. Lis:

Well Construction/Pump Installation Permit Application for Well No. 1226-01

We acknowledge receipt, on March 11, 2010, of your completed Well Construction/Pump Installation permit application and filing fee for the Kalihiwai Oasis (Well No. 1226-01). You can expect your application to be processed within ninety (90) days from this date.

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

By this acceptance letter, we are also notifying the well operator/landowner that water may not be pumped for purposes other than testing until the certificate of well construction/pump installation completion letter is issued to the well operator and landowner. Additionally, the permitted pump capacity described on the pump installation permit may be reduced in the event that the pump test does not support the capacity. No certificate of pump installation will be issued until the Commission has determined that the pump capacity will not have adverse effects on the aquifer, other nearby wells, or streams. In other words, you may need to remove the pump and install a smaller pump at the Commission’s discretion before you can withdraw water for purposes other than testing.

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

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

CI:ss
Attachment
c: Russell Josephson
March 19, 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: Laura H. Thielen, Chairperson
      Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
         Kalihiwai Oasis (Well No. 1226-01)

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

We would appreciate your comments on the captioned application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your department. Please respond by returning this cover memo form by April 19, 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 Charley Ice of the Commission staff at 587-0218.

RESPONSE:

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

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

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

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

[ ] For the applicant's information, a source of possible wastewater contamination [ ] is 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: ___________________________
March 19, 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
       Kalihiwai Oasis (Well No. 1226-01) TMK (4) 5-5-002:008

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 April 19, 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 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:

Contact Person: ____________________________ Phone: ____________

Signed: ____________________________ Date: ____________
March 19, 2010

TO: Dr. Puualaokalani Aiu, Administrator
   Historic Preservation

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

SUBJECT: Well Construction/Pump Installation Permit Application
         Kalihiwai Oasis (Well No. 1226-01) TMK: (4) 5-3-002:008

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 April 19, 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 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: ______________
TO: Samuel J. Lemmo, Administrator  
Office of Conservation and Coastal Lands

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

SUBJECT: Well Construction/Pump Installation Permit Application  
Kaliihiwai Oasis (Well No. 1226-01)

March 19, 2010

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

It appears that the subject well project is in conservation land. 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 April 19, 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 Charley Ice of the Commission staff at 587-0218.

RESPONSE:

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

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

[ ] No objections

[ ] Other comments:

Contact Person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
March 19, 2010

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
Kalihiwai Oasis (Well No. 1226-01)

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

We would appreciate your comments on the captioned application with regard to the SMA permitting requirements specific to your division. Please respond by returning this cover memo form by April 19, 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 Charley Ice of the Commission staff at 587-0218.

Sincerely,

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: _______________
**COMMISSION ON WATER RESOURCE MANAGEMENT**

**ROUTE SLIP FOR NEW APPLICATIONS**

**FROM:** CHARLEY  
**DATE:** 15-Mar-10  
**SUSPENSE DATE:** 22-Mar-10

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| WELL NUMBER | 1226 - 01 |
| WELL NAME | Kalihiwai Oasis |

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

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<th>TAX MAPS (11 COPIES)</th>
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**FOLDER:**
- MADE NEW FILE FOLDER, ATTACHED
- FILE FOLDER ALREADY MADE, IN FILE CABINET

**INCOMPLETE ACTION DATES:**

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WUP Number: NA
## Well Background Check

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*Note: The table above contains a list of wells with their respective construction dates and installation dates. The data includes the well number, well name, applicant, driller, pump installation, and the dates for well construction and pump installation.*
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**TOTAL** $ 50.00

**REMARKS:**

LINE (1) Kalihiwai Oasisl
LINE (2) Robinson No. 1 Well
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
APPLICATION FOR A WELL CONSTRUCTION / PUMP INSTALLATION PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 10 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-681-2225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

WELL LOCATION INFORMATION
1. STATE WELL NO. (if already assigned)
2. WELL NAME
Kahikina Oasis
3. ISLAND
Kauai
4. TMK
S 3 002 008

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

5. WELL OPERATOR'S NAME/COMPANY
Russel Josephson & Vera Benedek
Well Operator's Contact
6. LANDOWNER'S NAME/COMPANY
Same
Landowner's Contact

WELL OPERATOR'S Mailing Address
PO Box 1249
Kilauea, HI 96754

WELL OPERATOR'S Phone
965-5546
WELL OPERATOR'S Fax
None
WELL OPERATOR'S E-mail

LANDOWNER'S Mailing Address
PO Box 1249
Kilauea, HI 96754

LANDOWNER'S Phone
None
LANDOWNER'S Fax
None
LANDOWNER'S E-mail

PROPOSED WELL CONSTRUCTION
7. Proposed Work
- Modify Existing Well
- Abandon/Seal Well
- New Well
- Drilling
- Install new Pump
- Replace Pump

8. Construction Type
- Drilled
- Shaft
- Tunnel

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

PROPOSED PUMP INSTALLATION
10. Proposed Pump Type
- New Pump
- Flowmeter
- Other (explain)

11. Proposed Pumping Rate, gpm (gallons per minute)
A

12. Proposed Amount of Withdrawal, gpd (gallons per day)
1000

13. Method of flow measurement
- Flowmeter
- Other

14. Proposed Surveyor name and license number (a surveyor is required for all Well Construction Permits and may be required for some Pump Installation Permits)

PROPOSED USE
☐ 15. Municipal (water systems serving greater than 25 individuals or 15 service connections)
☒ 16. Domestic
Number of units to be served: 2

☐ 17. Industrial (describe)

☐ 18. Irrigation (describe crop and no. of acres)

☐ 19. Military (describe)

☐ 20. Other (describe)

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

21. Conservation District Use Permit (CDUP)
☐ Well is in Conservation District
☐ Required, CDUP # date approved
☐ Not Required (attach documentation from CDCL)
☐ I have not consulted with CDCL about whether or not a CDUP is required. I understand that consultation with CDCL prior to making this application will expedite my review. I further understand that issues raised by this agency may delay or result in denial of the permit issuance, or revocation of the permit after it is issued.

☐ Well is not in Conservation District

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

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

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

24. Use Permit No. (if applicable)

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

NOTE: Signing below indicates that the signatories understand and swear that the information provided is accurate and true to the best of their knowledge. Further, the signatories understand that upon permit approval: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 30 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.

25. WELL DRILLER (Must be filled out if application is for Well Construction)
Oasis Water Systems Inc. 24157
Licensee business name
C-57 License No.
Signature: Elizabeth Liu 3-9-2010
Address: P.O. Box 507, Hanalei, HI 96714

26. PUMP INSTALLER (Must be filled out if application is for Pump Installation)
Oasis Water Systems Inc. 24157
Licensee business name
C-57/C-57A License No.
Signature: Elizabeth Liu 3-9-2010
Address: P.O. Box 507, Hanalei, HI 96714
**PROPOSED WELL SECTION** (Please attach schematic if different from diagram provided below)

**Nominal Diameter:** in.

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

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

**Open Casing Material:**
- Perforated
- Screen

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- And compliant with (check one or more): □ ASTM A242 (or A606) □ Type E □ Type S □ Grade B □ Other

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

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

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

**Thermoset Plastic:** (check one)
- Filament Wound Resin Pipe conforming to ASTM D2996
- Centrifugally Cast Resin Pipe conforming to ASTM D2997
- Reinforced Plastic Mortar Pressure Pipe conforming to ASTM 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:**
- Diameter: in.
- Bottom Elevation: ft., msl

**Solid Casing:** (≥ 90% x (Ground Elev.-Water Level Elev))
- Total Length: ft.
- Nominal Diameter: 6 in.
- Wall Thickness: 0.250 in.
- Bottom Elevation: -30 ft., msl

Elevation at top of casing: 12 ft., msl

Hole Diameter: 13 in.

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

**Ground Elevation:** 16 ft., msl est.

**Cement Grout:** 42 ft.

(min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

**Rock or Gravel Packing:**
- Crushed Basalt
- Rounded Gravel

**Grouted:**
- Positive displacement
- Other

**Total Depth:** 60 ft.

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

*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 report 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 = \( \frac{\text{Water Elevation} - 41 \times \text{Water Level Elev.}}{4} \)

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

**Solid Casing Material:**
- Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
- And compliant with (check one or more): □ ASTM A242 (or A606) □ Type E □ Type S □ Grade B □ Other

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

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

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- Schedule 80
- Schedule 120

**Thermoset Plastic:** (check one)
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- PTFE fluorocarbon Tubing conforming to ASTM D3296
- FEP fluorocarbon Tubing conforming to ASTM D3296

**Open Casing:**
- Diameter: in.
- Bottom Elevation: ft., msl

**Solid Casing:** (≥ 90% x (Ground Elev.-Water Level Elev))
- Total Length: 40 ft.
- Nominal Diameter: 6 in.
- Wall Thickness: 0.250 in.
- Bottom Elevation: -30 ft., msl

**Open Casing:**
- Diameter: in.
- Bottom Elevation: ft., msl

**Solid Casing:** (≥ 90% x (Ground Elev.-Water Level Elev))
- Total Length: 20 ft.
- Nominal Diameter: 6 in.
- Wall Thickness: 0.250 in.
- Bottom Elevation: -50 ft., msl

**Open Casing:**
- Diameter: in.
- Bottom Elevation: ft., msl

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