MEMO and ROUTE SLIP

WCR 2 Check for Well No. 1120-32

1. **Pump Tests Check** (special condition of PIP? Yes/No)
   - Glenn Bauer (initial if yes)
   - Yes No
   - If no, describe deficiency

   **Step-Drawdown Test:**
   - followed WCPI Stds
   - analysis attached
   - proposed pump cap o.k.

   **Aquifer Pump Test:**
   - followed WCPI Stds
   - T & S analysis attached

   **Well Interference:**
   - estimated Steady-State drawdown at 1-mile radius is _____ ft.
   - analysis attached

   **Stream Surface Water Impacted:**
   - If yes, identify most probable stream

2. **Pump Installation Check**
   - Mitch Ohye (initial)
   - data complete
   - followed WCPI Stds
   - well database updated

3. Charley/Lenore/Ryan (initial) take action based on above analysis

4. Roy (initial) check – edits

5. Susan Subia (initial) finalize

6. Linnel (initial) signature

7. Charley/Lenore/Ryan File
Mr. Steve Goldberg  
Oasis Water Systems  
P.O. Box 535  
Kilauea, HI 96754  

Dear Mr. Goldberg:  

Well Completion Report for Well No. 1120-32  

We received your Well Completion Report Part II for the Larsen Beach (Well No. 1120-32) on September 28, 2001 and acknowledge that it is complete.  

As you may know, the Commission has increased enforcement action and has been assessing fines towards violations. This is a reminder that Well Completion Reports (WCR) are due 60 days after the installation of the permanent pump into the well casing and delinquent reports are technically a violation. Although we are not taking delinquent WCR violations to the Commission for action, this may change in the near future.  

If you have any questions, please contact Lenore Nakama of the Commission staff at 587-0218 or toll-free at 274-3141, extension 70218.  

Sincerely,  

LINNEL T. NISHIOKA  
Deputy Director  

LN:ky  
c. Ricardo Russell
State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources  
WELL COMPLETION REPORT - PART II  
Pump Installation

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For updates to this form or additional information, please visit our website at http://www.state.hi.us/dlnr/cwrm/

1. State Well No.: 1120-32  
   Well Name: Larsen Beach  
   Island: Kauai

2. Address: 7200E Koolau Road  
   Tax Map Key: 4-9-011-009:004E

3. Pump Installation Company: Oasis Water

4. Date Pump Installed: 3-25-01

5. PERMANENT PUMP INFORMATION
   Pump Type, Make, Serial No.: Submersible, Franklin, 5hp, 230, 3450
   Motor Type, H.P., Voltage, rpm: Franklin, 5hp, 230, 3450
   Type of flow meter: Open which measures in

   Pump type (check one):  
   □ Deep Well Turbine  
   □ Rotary  
   □ Propeller  
   □ Submersible  
   □ Rotary-Displacement  
   □ Reciprocating  
   □ Centrifugal  
   □ Rotary-Gear  
   □ Impulse

6. Method of flow measurement:  
   □ Flowmeter  
   Manufacturer __________________ Make __________________ Size ____________
   □ Weir  
   □ Open Pipe  
   □ Orifice*  
   □ Other*, explain below  
   *attach schematic

7. Fill in the as-built section on the other side of this sheet.

8. Other remarks/comments:


Pump Installation Contractor (print)  
__________________________  
Signature  
Date 8-10-01

Permittee (print)  
__________________________  
Signature  
Date 8-10-01
9. AS-BUILT PUMP SECTION (Please attach as-built if different from diagram provided below)

2-1120-32 LARSEN BEACH

Bench mark elevation surveyed to nearest 0.01 ft. = 307.80 ft. mean sea level

elevation of top of chase tube = 312.14 ft. mean sea level

Pump intake depth = 14.00 ft. (referenced to bench mark)

Chase tube depth = 400 ft. (referenced to bench mark)

if airline installed, bottom of airline elevation = _______ ft. mean sea level
PUMP INSTALLATION PERMIT
Larson Beach, Well No. 1120-32

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 Larson Beach (Well No. 1120-32) at 7200E Koolau Road, Kauai, TMK 4-8-011-009-004(E), subject to the Hawaii Well Construction & Pump Installation Standards (123/97) which include but are not limited to the following conditions:

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

2. The pump installation permit shall be for installation of a 29 gpm capacity, or less, pump in the well.

3. The permittee, well operator, and/or well owner shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperatures. These data shall be measured monthly and reported to the Commission on an annual basis, on forms provided by the Chairperson (attached).

4. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to pump water from a well shall not constitute a determination of cumulative water rights. The permittee, well operator, and/or well owner are notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

5. The permittee, well operator, and/or well owner shall complete and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Chairperson within sixty (60) days after completion of work.

6. 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.

7. The pump installation permit application and any related submittal approved by the Commission are incorporated into this permit by reference. The this permit is also subject to the Hawaii Well Construction & Pump Installation Standards (123/97). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. 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 three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

9. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(1) prior to any well sealing or plugging work.

10. 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.

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

Date of Approval: July 17, 2001
Expiration Date: July 17, 2003

GILBERT S. COLOMA-AGARAN, Chairperson
Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: [Signature]

Printed Name: R. RUSSELL
Firm or Title: AUDIT

Installer's Signature: [Signature]

Printed Name: Steve Calvare
Firm or Title: BASIS WATER

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

Attachments:
- USGS
  Department of Health/ Safe Drinking Water & Wastewater Branch
  Kauai Department of Water Supply
  R. Russell
Mr. Steve Goldberg
Oasis Water Systems
P.O. Box 535
Kilauea, HI 96754

Dear Mr. Goldberg:

Pump Installation Permit
Larsen Beach (Well No. 1120-32)

Enclosed are two (2) originals of your approved Pump Installation Permit for the captioned well(s) that authorize permanent pump installation work for your well(s). As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 11:

Special Conditions

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

The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the pump installation contractor submits a completed Part II of the Well Completion Report form (enclosed) within sixty (60) days after the pump installation work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.

Please sign and have the landowner sign both permit originals and return one for our files. A copy of the Well Completion Report (Part II) and a copy of your water use report form are enclosed for your use.

IMPORTANT - Pump installation shall not commence until a fully signed permit is returned to the Commission. Except for the monthly water use report form, please provide copies of all the information in this packet to your pump installation contractor.

Finally, this letter is notice that we have accepted your Well Completion Report - Part I as complete as of July 17, 2001.

If you have any questions, please call Lenore Nakama of the Commission staff at 587-0218 or toll-free at 274-3141, extension 70218.

Aloha,

GILBERT S. COLOMA-AGARAN
Chairperson

Enclosure

C. Ricardo Russell
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 Larsen Beach (Well No. 1120-32) at 7200E Koolau Road, Kauai, TMK 4-9-011-009:004(E), subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The pump installation permit shall be for installation of a 20 gpm capacity, or less, pump in the well.

3. The permittee, well operator, and/or well owner shall provide and maintain an approved meter or other appropriate means for measuring and reporting withdrawals and water levels, and appropriate devices or means for measuring chlorides and temperature. These data shall be measured monthly and reported to the Commission on an annual basis, on forms provided by the Chairperson (attached).

4. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to pump water from a well shall not constitute a determination of correlative water rights. The permittee, well operator, and/or well owner are notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.

5. The permittee, well operator, and/or well owner shall complete and submit as-built drawings and Part II - (Permanent) Pump Installation Report of the Well Completion Report (attached) to the Chairperson within sixty (60) days after completion of work.

6. 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.

7. The pump installation permit application and any related staff submittal approved by the Commission are incorporated into this permit by reference. The this permit is also subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

8. The permit may be revoked if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. 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 three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

9. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

10. 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.

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Commission on Water Resource Management

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed and understand that I shall not commence work until I and the pump installer have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ___________________________ Date: __________
Printed Name: ___________________________ Firm or Title: ___________________________

Installer's Signature: ___________________________ C-57, C-57a, or A License #: ______ Date: __________
Printed Name: ___________________________ Firm or Title: ___________________________

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

Attachments

| c. | USGS Department of Health/ Safe Drinking Water & Wastewater Branch |
| Kauai Department of Water Supply |
| Ricardo Russell |
**SECTION 1: WELL LOCATION INFORMATION**

<table>
<thead>
<tr>
<th>Island</th>
<th>KAUAI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquifer System</td>
<td>LIHUE</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>ANAHOLA</td>
</tr>
<tr>
<td>Proposed Use</td>
<td>Domestic</td>
</tr>
<tr>
<td>Proposed Withdrawal</td>
<td>50000</td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>36</td>
</tr>
</tbody>
</table>

**SECTION 2: WELL SECTION DATA**  
(enter data in grey cells only)

| Elevation at top of casing | 312.4 ft., m.s.l. |
| Ground Elevation          | 309.8 ft., m.s.l. |
| Cement Grout              | 240 ft.          |
| Rock Packing              | 0 ft.            |
| Hole Diameter             | 13 in.           |
| Total Depth               | 517 ft.          |
| Estimated Head            | 23 ft., m.s.l.   |
| Calculated Aquifer Thickness | 943 ft.       |
| County Water Supply (Y/N ?) | NO             |

**Solid Casing**

<table>
<thead>
<tr>
<th>Material</th>
<th>Designation</th>
<th>Length</th>
<th>Diameter</th>
<th>Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td>Sch 40</td>
<td>477 ft.</td>
<td>6 in.</td>
<td>0 in.</td>
</tr>
</tbody>
</table>

**Casing**

<table>
<thead>
<tr>
<th>Length</th>
<th>Diameter</th>
<th>Wall Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 ft.</td>
<td>6 in.</td>
<td>0 in.</td>
</tr>
</tbody>
</table>

**SECTION 3: CHECKLIST**  
(values to check are shaded)

**Well Depth**

| Theoretical Thickness of Aquifer | 943 ft. |
| 1/4 Aquifer Thickness | 235.8 ft. |
| Depth of Well below Sea Level | 207.2 ft.  | okay (refer to HWCPIS Section 2.2)  
(disregard if the well is not basal) |

**Well Casing**

| Wall Thickness per standards | 0.280 in. |
| County or Non-County | non-county |
| Minimum Thickness Provided | 0.000 in.  | too small (refer to HWCPIS Section 2.4 c)  
(disregard this if this is a non-county well) |

**Annular Space**

| Length of solid casing Provided | 477 ft.  | okay (refer to HWCPIS Section 2.4 d) |
| Casing Material | Sch 40 |

| Depth of Grouting | 200.8 ft. | okay (refer to HWCPIS Section 2.6 c) |
| Calculated Depth of Grouting | 240 ft.  |
| Thickness of Annular Space | 3.5 in.  | okay (refer to HWCPIS Section 2.6 d) |

Page 1
MEMO and ROUTE SLIP

WCR 1 Check for Well No. 1120-32 (survey to regulation memo)

1. **Pump Tests Check** Glenn Bauer (initial)
   - Yes  No  If no, describe deficiency
     - Step-Drawdown Test:
       - followed WCPI Stds
       - analysis attached
       - proposed pump cap o.k.
     - Aquifer Pump Test:
       - followed WCPI Stds
       - T & S analysis attached
     - Well Interference:
       - estimated Steady-State drawdown at 1-mile radius is ___ ft.
       - analysis attached
     - Stream Surface Water Impacted:
       - If yes, identify most probable stream

2. **Construction Check** Mitch Ohye (initial)
   - Yes  No  If no, describe deficiency
     - data complete
     - followed WCPI Stds
     - well database updated

3. Charley/Lenore/Ryan (initial) take action based on above analysis

ATTACHMENTS FOR PUMP INSTALLATION PERMIT:
- 1 COVER LETTER
- 2 PERMIT (2x)
- 3 DOH COMMENTS
- 4 LAND DIV. COMMENTS
- 5 WCR 2 FORM
- 6 WUR FORM

___ not necessary – only WCP.

To be sent to applicant

4. Roy (initial) check
5. Kathy (initial) finalize
6. Linnel (initial) signature
7. Charley/Lenore/Ryan File
Hi Lenore:

In ref. to your questions on the following wells:

1- I have enclosed the permanent pump info for wells 1120-26 & 1120-30
2- I have also enclosed a revised as built well section for well # 1123-01
3- I have enclosed a revised as built well section for well # 1120-32
   - The water level was 289' below top of casing, which equals 23' above sea level
4- I have enclosed a revised as built well section for well # 1120-31
   - The original measurement was taken for top of casing instead of ground level

Thanks

Steve

New Well Owner:
Ricardo Russell
PH. 808-688-3980
FAX 808-688-8352

Within the city limits, no permits had been used in building address.

Ricardo Russell
2009 Calle Vista
Solvang, CA 93462
1. State Well No.: 1120-32  
Well Name: Larsen Beach  
Island: Kauai

2. Address: 7200 E Koolau Road  
Tax Map Key: 4-9-011-008:004(E)

3. Drilling Company: **Oasis Water Systems Inc.**

4. Drilling method used during construction:  
   - Rotary  
   - Percussion  
   - Other (describe)

5. Date Well Construction (drilled, cased, grouted) completed: 3-20-01  
   Attach Driller's Log (7/26/99 DL Form)

6. Initial water-level encountered: 60 ft. below ground  
   Date and time of measurement: 3-8-01 9:41

7. Was the subject well cored?  
   - Yes  
   - No

8. Initial water-level encountered: 60 ft. below ground  
   Date and time of measurement: 3-8-01 9:41

9. Step-Drawdown Test completed?  
   - No  
   - Yes  
   Attach Step-Drawdown Test Form (12/17/97 SDPTD Form)

10. Constant Rate Aquifer Test completed?  
    - No  
    - Yes  
    Attach Constant Rate Aquifer Test form (12/17/97 CRPTD Form)

11. Water-level: 13.41 ft. above msl  
    Date and time of measurement: 3-25-01 11:01

12. Chloride: 65 ppm  
    Date and time of sampling: 3-25-01 11:01

13. Temperature: 71 °F  
    Date and time of measurement: 3-25-01 11:01

14. Fill in the as-built section on the other side of this sheet.

15. Attach plot plan and surveyor's stamped elevation report.

16. If a pump is not planned to be installed, please describe (below in the remarks section) how well is secured to prevent unauthorized access (example: lockable cover, threaded coupling, etc.)

17. Remarks:

   [Remarks to be filled in]

---

**Licensed Driller (print): Oasis Water**  
C-57 Lic. No. 21457  
Signature: [Signature]  
Date: 6-12-01

**Surveyor (print): [Signature]**  
L.P.L.S. Lic. No.  
Signature: [Signature]  
Date:  
[Surveyor's stamped report attached]

**Permittee (print): [Signature]**  
Signature: [Signature]  
Date: [Date]  
[Permittee's stamped report attached]
14. AS-BUILT WELL SECTION (Please attach as-built if different from diagram provided below)

Elevation at top of casing 312.4 ft, msl

Minimum of 2' Radius & 4' Thick Concrete Pad

Ground Elevation 309.80 ft, msl

**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
    - Type E
    - Type S
    - Grade B0
    - 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
  - Clearance 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
  - PVDF Fluorocarbon Tubing conforming to ASTM D3296
  - PTFE Fluorocarbon Tubing conforming to ASTM D3298

**Open Casing Material:**

- **Carbon Steel:** compliant with (check one or more):
  - ANSI/AWWA C200
  - API Spec. 5L
  - ASTM A53
  - ASTM A139
  - And compliant with (check one or more):
    - ASTM A242
    - 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
  - Clearance 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
  - PVDF Fluorocarbon Tubing conforming to ASTM D3296
  - PTFE Fluorocarbon Tubing conforming to ASTM D3298

**Solid Casing:** (2.90 x (Ground Elev.-Water Level Elev.))

- **Length:** 477 ft
- **Nominal Diameter:** 6 in
- **Wall Thickness:** 0.40 in
- **Bottom Elevation:** 167.2 ft, msl

**Open Casing:**

- **Length:** 40 ft
- **Nominal Diameter:** 6 in
- **Wall Thickness:** 0.40 in
- **Bottom Elevation:** 207.2 ft, msl

**Open Hole:**

- **Length:**
- **Diameter:**
- **Bottom Elevation:**

**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
    - 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
  - Clearance 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
  - PVDF Fluorocarbon Tubing conforming to ASTM D3296
  - PTFE Fluorocarbon Tubing conforming to ASTM D3298

**Open Casing Material:**

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

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

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

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

- **Thermoset Plastic:** (check one)
  - Filament Wound Resin Pipe conforming to ASTM D2996
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  - PTFE Fluorocarbon Tubing conforming to ASTM D3298
MEMO and ROUTE SLIP

WCR 1 Check for Well No. 1120-32 (survey to regulation memo)

1. **Pump Tests Check** Glenn Bauer [initial]
   - **Step-Drawdown Test:** 
     - followed WCPI Stds [ ]
     - analysis attached [ ]
     - proposed pump cap o.k. [ ]
   - **Aquifer Pump Test:** 
     - followed WCPI Stds [ ]
     - T & S analysis attached [ ]
   - **Well Interference:** 
     - estimated Steady-State drawdown at 1-mile radius is [ ] ft.
     - analysis attached [ ]
   - **Stream Surface Water Impacted:** [ ]

2. **Construction Check** Mitch Ohye [initial]
   - data complete [ ]
   - followed WCPI Stds [ ]
   - well database updated [ ]

3. Charley/lenore/ryan [initial] take action based on above analysis

**ATTACHMENTS FOR PUMP INSTALLATION PERMIT:**
1. COVER LETTER
2. PERMIT (2x)
3. DOH COMMENTS
4. LAND DIV. COMMENTS
5. WCR 2 FORM
6. WUR FORM

---

4. Roy [initial] check
5. Kathy [initial] finalize
6. Linnel [initial] signature
7. Charley/Lenore/Ryan File

---

If yes, identify most probable stream.

---

To be sent to applicant.

---

Not necessary – only WCP.
Mr. Steve Goldberg
Oasis Water Systems
P.O. Box 535
Kilauea, HI 96754

Dear Mr. Goldberg:

Well Completion Report for Well No. 1120-32

We have received your Well Completion Report Part I for the Larsen Beach (Well No. 1120-32). However, matters which must be addressed before we accept your report as complete are as follows:

1. Please explain in writing why the depth of the well is not in compliance with the Hawaii Well Construction and Pump Installation Standards (well depth exceeds one-fourth of the thickness of the basal ground water body).

2. Please provide the full name, address, phone number, fax, and email address (if available) for the new landowner at the well site. The application was signed by Lee Joseph as the landowner. The Well Completion Report indicates a Ricardo Russell now owns the parcel.

Please respond to the above item(s) within sixty (60) days of this letter's date. Failure to do so may result in fines of up to $1000 per day.

If you have any questions, please contact Lenore Nakama of the Commission staff at 587-0218 or toll-free at 274-3141, extension 70218.

Sincerely,

LINNEL T. NISHIOKA
Deputy Director
**SECTION 1: WELL LOCATION INFORMATION**

<table>
<thead>
<tr>
<th>Island</th>
<th>KAUAI</th>
<th>Proposed Use</th>
<th>Domestic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquifer System</td>
<td>LIHUE</td>
<td>Proposed Withdrawal</td>
<td>System Sustainable Yield</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>ANAHOLA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 2: WELL SECTION DATA** *(enter data in grey cells only)*

| Elevation at top of casing | 332.7 | ft., m.s.l. |
| Ground Elevation | 300 | ft., m.s.l. |
| Cement Grout | 3 ft. |
| Rock Packing | 3 in. |
| Hole Diameter | 3 in. |
| Total Depth | 410 ft. |
| Estimated Head | 563.1 | ft., m.s.l. |
| Calculated Aquifer Thickness | 549.8 | ft. |
| County Water Supply (Y/N ?) | Y |

| Solid Casing Material | PVC |
| Designation | Sch 40 |
| Length | 7 ft. |
| Diameter | 7 in. |
| Wall Thickness | 0.280 in. |

| Casing Material | PVC |
| Designation | Sch 40 |
| Length | 7 ft. |
| Diameter | 7 in. |
| Wall Thickness | 0.280 in. |
| Openings | 477 sq.in./1.f. |
| Open Hole Length | 477 ft. |
| Diameter | 3.5 in. |

**SECTION 3: CHECKLIST** *(values to check are shaded)*

| Well Depth Theoretical Thickness of Aquifer | 549.8 | ft. |
| 1/4 Aquifer Thickness | 137.5 | ft. |
| Depth of Well below Sea Level | 207.2 | ft. |
| Well Casing Minimum Wall Thickness Material | PVC |
| County or Non-County | non-county |
| Minimum Thickness per standards | 0.280 | in. |
| Wall Thickness Provided | 0.000 | in. |
| Minimum Length of Solid Casing 90% of ground to top of aquifer | 266.8 | ft. |
| Length of solid casing Provided | 477 | ft. |
| Casing Material | Sch 40 |
| Annular Space | If the cell above reads #N/A, reference HWCPIS |
| Depth of Grouting Calculated Depth of Grouting | 207.5 | ft. |
| Depth of Grouting provided | 240 | ft. |
| Thickness of Annular Space | 3.5 | in. |

**Mathematical Expression**

\[
13.41 = \left(\frac{41 \times 13.41}{4}\right)
\]

**Page 1**
**State of Hawaii, Department of Land and Natural Resources**

**Commission on Water Resource Management**

**WELL COMPLETION REPORT - PART I**

**Well Construction**

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For updates to this form or additional information, please visit our website at [http://www.state.hi.us/dlnr/cwrm/](http://www.state.hi.us/dlnr/cwrm/)

<p>| | | | | |</p>
<table>
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<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. State Well No.:</td>
<td>1120-32</td>
<td>Well Name:</td>
<td>Larsen Beach</td>
<td>Island:</td>
</tr>
<tr>
<td>2. Address:</td>
<td>7200 E Koolau Road</td>
<td>Tax Map Key:</td>
<td>4-9-011-009:004(E)</td>
<td></td>
</tr>
<tr>
<td>3. Drilling Company:</td>
<td>Oasis Water Systems Inc</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Drilling method used during construction:</td>
<td>Rotary</td>
<td>Percussion</td>
<td>Other (describe)</td>
<td></td>
</tr>
<tr>
<td>5. Date Well Construction (drilled, cased, grouted) completed:</td>
<td>3-20-01</td>
<td>Attach Driller's Log (7/26/99 DL Form)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. In addition to the driller's log, if a geologic log was prepared, please submit with this form.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Was the subject well cored?</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Initial water-level encountered:</td>
<td>60 ft. below ground</td>
<td>Date and time of measurement:</td>
<td>3-8-01 9:41</td>
<td></td>
</tr>
<tr>
<td>9. Step-Drawdown Test completed?</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Constant Rate Aquifer Test completed?</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameters prior to pump test:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Water-level:</td>
<td>13.41 ft. above msl</td>
<td>Date and time of measurement:</td>
<td>3-26-01 11:41</td>
<td></td>
</tr>
<tr>
<td>12. Chloride:</td>
<td>65 ppm</td>
<td>Date and time of sampling:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. Temperature:</td>
<td>71°F</td>
<td>Date and time of measurement:</td>
<td></td>
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</tbody>
</table>

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</thead>
<tbody>
<tr>
<td>14. Fill in the as-built section on the other side of this sheet.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. Attach plot plan and surveyor's stamped elevation report.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. If a pump is not planned to be installed, please describe (below in the remarks section) how well is secured to prevent unauthorized access (example: lockable cover, threaded coupling, etc.)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>17. Remarks:</td>
<td></td>
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</tr>
</tbody>
</table>

**Licensed Driller** (print) | Oasis Water | C-57 Lic. No. | 21457 |
| Signature |   | Date | 6-12-01 |

**Surveyor** (print) | See Attached |
| L.P.L.S. Lic. No. |   |
| Signature |   | Date |   |

**Permittee** (print) | See Attached |
| Signature |   | Date |   |

WCR1 Form 9/29/00
14. AS-BUILT WELL SECTION (Please attach as-built if different from diagram provided below)

Elevation at top of casing: 312.4 ft. msl
(to nearest 0.01 ft.)

Minimum of 2' Radius & 4" Thick Concrete Pad

Ground Elevation: 309.8 ft. msl

Cement Grout: 240 ft.
(min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

Annular space between hole and casing (min.3"):
3 in.

Rock or Gravel Packing:

- Material: 0 Crushed Basalt
  0 Rounded Gravel

Water Level Elevation: 13.4 ft. msl

Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev.))
Length: 477 ft.
Nominal Diameter: 6 in.
Wall Thickness: sch 40 in.
Bottom Elevation: 167.2 ft. msl

Open Casing: 0 Perforated 0 Screen
Length: 40 ft.
Nominal Diameter: 6 in.
Wall Thickness: sch 40 in.
Bottom Elevation: 207.2 ft. msl

Open Hole: Length: _____________ ft.
Diameter: ______________ in.
Bottom Elevation: __________ ft. msl

Solid Casing Material:
Carbon Steel: compliant with (check one or more): 0 ANSI/AWWA C200 0 API Spec. 5L 0 ASTM A53 0 ASTM A139
And compliant with (check one or more): 0 ASTM A242 0 Type E 0 Type S 0 Grade B 0 Other
Stainless Steel: (check one): 0 ASTM A409 (production wells) 0 ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) 0 Schedule 40 0 Schedule 80
PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): 0 Schedule 40 0 Schedule 80 0 Schedule 120
Thermoset Plastic: (check one)
  0 Filament Wound Resin Pipe conforming to ASTM D2996
  0 Centrifugally Cast Resin Pipe conforming to ASTM D2997
  0 Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  0 Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  0 PTFE Fluorocarbon Tubing conforming to ASTM D3296
  0 FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:
Carbon Steel: compliant with (check one or more): 0 ANSI/AWWA C200 0 API Spec. 5L 0 ASTM A53 0 ASTM A139
And compliant with (check one or more): 0 ASTM A242 0 Type E 0 Type S 0 Grade B 0 Other
Stainless Steel: (check one): 0 ASTM A409 (production wells) 0 ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) 0 Schedule 40 0 Schedule 80
PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): 0 Schedule 40 0 Schedule 80 0 Schedule 120
Thermoset Plastic: (check one)
  0 Filament Wound Resin Pipe conforming to ASTM D2996
  0 Centrifugally Cast Resin Pipe conforming to ASTM D2997
  0 Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
  0 Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
  0 PTFE Fluorocarbon Tubing conforming to ASTM D3296
  0 FEP Fluorocarbon Tubing conforming to ASTM D3296

Bench mark elevation: 310.24
(Survey to nearest 0.01 ft.)

Solid Casing Material:
Carbon Steel: compliant with (check one or more): 0 ANSI/AWWA C200 0 API Spec. 5L 0 ASTM A53 0 ASTM A139
And compliant with (check one or more): 0 ASTM A242 0 Type E 0 Type S 0 Grade B 0 Other
Stainless Steel: (check one): 0 ASTM A409 (production wells) 0 ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) 0 Schedule 40 0 Schedule 80
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  0 FEP Fluorocarbon Tubing conforming to ASTM D3296
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

WELL COMPLETION REPORT - PART I
Well Construction

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96802. The Commission may not accept typewritten reports. This form must be submitted within 60 days of the completion of work. For assistance, please call the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 808-626-4000. For updates to this form or additional information, please visit our website at http://www.state.hi.us/wrwm

1. State Well No.: 1120-32  Well Name: Larsen Beach  Island: Kauai
2. Address: 7200 E Koolea Road  Tax Map Key: 4-9-011-009:004(B)
3. Drilling Company: 
4. Drilling method used during construction:  
   □ Rotary  □ Percussion  □ Other (describe)
5. Date Well Construction (drilled,cased,grouted) completed:   
   Attach Driller's Log (77089 DL Form)
   In addition, send a geologic log if prepared.
6. Was the subject well cored?  □ Yes  □ No
7. Initial water-level encountered ____ ft. below ground  Date and time of measurement:   
8. Step-Drawdown Test completed?  □ No  □ Yes  Attach Step-Drawdown Test form (12/97/97 SDPTD Form)
9. Constant Rate Aquifer Test completed?  □ No  □ Yes  Attach Constant Rate Aquifer Test form (12/97/97 CRPTD Form)
10. Parameters prior to pump test:
    Water-level: _____ ft. above msl  Date and time of measurement:   
    Chloride: _____ ppm  Date and time of sampling:   
    Temperature: _____ °F  Date and time of measurement:   
11. Pump test:
    Date: _____  Date and time of measurement:   
12. Remarks:   
13. If a pump is not planned to be installed, please describe (below in the remarks section) how well is secured to prevent unauthorized access (example: lockable cover, threaded coupling, etc.)
14. Fill in the exsibit section on the other side of this sheet.
15. Attach plot plan and surveyor's stamped elevation report.
16. Remarks:   

Licensed Driller (print)  
Signature  
C-57 Lic. No.  
Date

Surveyor (print)  
Signature  
L.P.L.S. Lic. No.  
Date

Permittee (print)  
Signature  
Date  

FROM    8/20/2001  

WCRF Form 92800
WELL ELEVATION

WELL #1120-32 ("LARSON BEACH")

OWNER: RICARDO RUSSELL

T.M.K.(4)4-9-11:09 UNIT D

PETER N. TAYLOR
LICENSED PROFESSIONAL LAND SURVEYOR
No. 9149

BENCH MARK USED: WELL SITE #1120-27 HAVING AN ELEVATION OF 311.38'
WELL NUMBER: 1120-32

DRILLER'S LOG (7/26/99 DL Form)

<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, etc.</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 447</td>
<td>Red clay</td>
<td></td>
<td>3-8-01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>147 to 235</td>
<td>Weathered rock, clay</td>
<td></td>
<td>3-9-01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>235 to 315</td>
<td>Fractured blue rock, cinders</td>
<td>3-12-01</td>
<td>(wz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>315 to 365</td>
<td>Fractured blue rock</td>
<td>3-13/14-01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>365 to 484</td>
<td>Weathered rock, streaked red clay</td>
<td>3-16-01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>484 to 491</td>
<td>Fractured blue rock</td>
<td>3-18-01</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>491 to 517</td>
<td>Blue Alvin rock</td>
<td>11</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks:
March 6 2001

State Of Hawaii
Water Commission
ATT: Lenore Nakama

Dear Lenore,

Please be advised that Oasis Water, Inc. License No. C-21457, We will begin work on the Larsens Beach Well # 1120-32 in the next few weeks.

Sincerely,

Steve Goldberg
Oasis Water inc. C-21457
WELL CONSTRUCTION PERMIT
Larsen Beach, Well No. 1120-32

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management’s Administrative Rules, Section 13-188, entitled “Water Use, Wells, and Stream Diversion Works”, this document permits the construction and testing of Larsen Beach (Well No. 1120-32) at 7200 E. Koolau Road, Kauai, TMK 4-9-011-009-004(E), subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) 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 98809, 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 §13-188-15, Hawaii Administrative Rules.

2. The well construction permit shall be for construction and testing of the well only. A minimum 1/4-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pumping testing worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. 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.

4. The permittee, well operator, and/or well owner 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.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shell or charcoal are encountered during construction, the permittee, well operator, and/or well owner shall stop work and contact the Department’s Historic Preservation immediately.

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

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

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

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997, HWCRPS). If the HWCRPS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval of if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within 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 three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-188-12(f) prior to any well sealing or plugging work.

12. 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.

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

Date of Approval: October 19, 2000
Expiration Date: October 19, 2002

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 driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee’s Signature: Lee Joseph
Firm or Title: Owner
Date: 3-6-01

Printed Name: Dear
Driiler’s Signature: Wander
C-57 License #: C21457 Date: 6-3-01
Printed Name: Oasis Water
Firm or Title: OASIS WATER

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

Attachment:
USGS
Department of Health’s Safe Drinking Water, Waste Water, and Clean Water Branches
Lee Joseph
Mr. Steve Goldberg  
Oasis Water Systems  
P.O. Box 535  
Kilauea, HI 96754  

Dear Mr. Goldberg:

Well Construction Permit  
Larsen Beach (Well No. 1120-32)

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 your permanent pump. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 13:

Special Conditions

1. Attached for your information is a copy 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.

2. Except for salt-water wells, any well constructed in basal aquifers for the purpose of nonpotable or potable water withdrawal shall be initially designed and pump tested at a depth below sea level not exceeding one-fourth of the theoretical thickness (41 times the head) of the basal ground-water body, unless authorized by the chairperson.

3. The wall thickness of well casing shall be selected in accordance with good design practices applied with due consideration to conditions at the site of the well and shall be sufficient to withstand anticipated formation and hydrostatic pressures imposed on the casing during its installation, grouting, well development, and use.

4. To prevent surface contamination, the annular space of all cased non-artesian wells (except monitor wells designed for immediate and short-term monitoring purposes and subsequent abandonment) must be sealed with grout from the ground surface to a minimum depth of 500 feet or 70% of the vertical distance between the ground surface and the top of the aquifer selected for exploration, long-term monitoring, or development, whichever depth is less.

5. Standard Condition 2 is modified to exempt the permittee from the requirements for pump tests.

6. Standard Condition 7.e. is waived.
This permit **does not** authorize work for your permanent pump installation. Approval and issuance of your pump installation permit is contingent upon completed application and information provided to and accepted by Commission staff as required in the Well Construction & Pump Installation Standards (1/23/97) and any special conditions performed under this permit. However, a permanent pump may be installed prior to the permanent pump installation permit issuance in accordance with the Commission's April 15, 1998 Declaratory Ruling No. DEC-ADM98-G5, which states that:

"Permanent pump installation for capacities between 0-70 gpm and where the proposed use is for private individual needs in non-ground-water management areas may be allowed prior to the final pump installation permit issuance. When required as a condition of the well construction permit, subsequent pumping tests shall validate the acceptability of the permanent pump. The permanent pump installed prior to final pump installation permit issuance is subject to removal if the testing shows that a smaller pump is required to reduce the potential of affecting neighboring wells and localized upconing at the applicant's well."

If you qualify and wish to take advantage of this ruling, please include a written request to install the permanent pump prior to final pump installation permit issuance when you return to us your signed well construction permit.

Please sign and have the landowner sign both permit originals and return one for our files.

**IMPORTANT** - Drilling work shall not commence until a fully signed permit is returned to the Commission. Please provide all the information in this packet to your well drilling contractor. The permittee, well operator, and/or well owner are responsible for all conditions of the permit. This includes ensuring that the well construction contractor, or other party who constructs the well(s), submits a completed Part I of the Well Completion Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions starting from the permit approval date.

If you have any questions, please call Lenore Nakama of the Commission staff at 587-0218 or toll-free at 274-3141, extension 70218.

Aloha,

TIMOTHY E. JOHNS  
Chairperson

Enclosures  
c: Lee Joseph
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 Larsen Beach (Well No. 1120-32) at 7200 E. Koolau Road, Kauai, TMK 4-9-011-009:004(E), subject to the Hawaii Well Construction & Pump Installation Standards (12/3/97) 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.

2. The well construction permit shall be for construction and testing of the well only. A minimum 1½-inch diameter monitor tube shall be permanently installed, in a manner acceptable to the Chairperson, to accurately record water levels. The permittee, well operator, and/or well owner shall coordinate with the Chairperson and conduct a pumping test in accordance with the Standards (a pump testing worksheet is attached). The permittee, well operator, and/or well owner shall submit to the Chairperson the test results as a basis for supporting an application to install a permanent pump and withdraw water for use. No permanent pump may be installed until a pump installation permit is approved and issued by the Chairperson.

3. 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.

4. The permittee, well operator, and/or well owner 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.

5. In the event that subsurface cultural remains such as artifacts, burials or concentrations of shells or charcoal are encountered during construction, the permittee, well operator, and/or well owner shall stop work and contact the Department’s Historic Preservation immediately.

6. 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.

7. The following shall be submitted to the Chairperson within sixty (60) days after completion of work:
   b. Elevation (referenced to mean sea level, msl) survey by a Hawaii-licensed surveyor.
   c. As-built sectional drawing of the well.
   d. Plot plan and map showing the exact location of the well.
   e. Complete pumping test records, including time, pumping rate, drawdown, chloride content, and other data.

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

9. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

10. The permit may be revoked by the Commission if work is not started within six (6) months after the date of approval or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within 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 three (3) months prior to the date the permit expires. If the commencement date is not met, the Commission may revoke the permit after giving the permittee, well operator, and/or well owner notice of the proposed action and an opportunity to be heard.

11. If the well is not to be used it must be properly capped. If the well is to be abandoned then the permittee, well operator, and/or well owner must apply for a well abandonment permit in accordance with §13-168-12(f) prior to any well sealing or plugging work.

12. 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.

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

Date of Approval: October 19, 2000
Expiration Date: October 19, 2002

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 driller have signed, dated, and returned the permit to the Commission. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day starting from the permit date of approval.

Permittee's Signature: ____________________________ Date: __________
Printed Name: ____________________________ Firm or Title: ____________________________
Driller's Signature: ____________________________ C-57 License #: ____________________________ Date: __________
Printed Name: ____________________________ Firm or Title: ____________________________

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

Attachment

c: USGS
Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Kauai Department of Water Supply
Lee Joseph
**SECTION 1: WELL LOCATION INFORMATION**

<table>
<thead>
<tr>
<th>Island</th>
<th>Aquifer System</th>
<th>Aquifer Sector</th>
<th>Proposed Use</th>
<th>Proposed Withdrawal</th>
<th>Domestic</th>
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<tr>
<td>KAUAI</td>
<td>LIHUE</td>
<td>KILAUEA</td>
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**SECTION 2: WELL SECTION DATA** *(enter data in grey cells only)*

<table>
<thead>
<tr>
<th>Elevation at top of casing</th>
<th>Solid Casing</th>
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</thead>
<tbody>
<tr>
<td>Ground Elevation</td>
<td>Material</td>
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<tr>
<td>Cement Grout</td>
<td>Designation</td>
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<tr>
<td>Rock Packing</td>
<td>Length</td>
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<tr>
<td>Hole Diameter</td>
<td>Diameter</td>
</tr>
<tr>
<td>Total Depth</td>
<td>Wall Thickness</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Estimated Head</th>
<th>Calculated Aquifer Thickness</th>
<th>County Water Supply (Y/N ?)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ft., m.s.l.</td>
<td>0 ft.</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 3: CHECKLIST** *(values to check are shaded)*

**Well Depth**
- Theoretical Thickness of Aquifer: 0 ft.
- 1/4 Aquifer Thickness: 0 ft.
- Depth of Well below Sea Level: 120 ft. too deep *(refer to HWCPIS Section 2.2)*

**Well Casing**
- Minimum Wall Thickness
  - Material: PVC
  - County or Non-County: non-county
  - Minimum Thickness per standards: 0.280 in.
  - Wall Thickness Provided: 0.000 in. too small *(refer to HWCPIS Section 2.4 c)*
- Minimum Length of Solid Casing
  - 90% of ground to top of aquifer: 270 ft.
  - Length of solid casing Provided: 360 ft. okay *(refer to HWCPIS Section 2.4 d)*
- Casing Material
  - Sch 40 okay *(refer to HWCPIS Section 2.4 e)*

**Annular Space**
- Calculated Depth of Grouting: 210 ft.
- Depth of Grouting provided: 0 ft. not enough *(refer to HWCPIS Section 2.6 c)*
- Thickness of Annular Space: 4 in. okay *(refer to HWCPIS Section 2.6 d)*
September 28, 2000

TO: Honorable Bruce S. Anderson, Director
    Department of Health
    Attention: Dennis Tulang, Wastewater Branch
    William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
    Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
    Larsen Beach (Well No. 1120-32)

Transmitted for your review and comment is a copy of the captioned well 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 October 20, 2000.

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 Lenore Nakama of the Commission staff at 587-0218.

LN:ky
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (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).

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

[ ] No comments/objections

Contact Person: MELVIN J. HAMANO Phone: 586-4268
Signed: MELVIN J. HAMANO Date: 10/17/00

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

TO: Houses
FROM: Melvin J. Harman
SUBJECT: Kalou Beach, Waipuna Ohana, and B.J. Barnard Well Drilling Permits.

Per conversation with Steve Goldberg, Oasis Water, contractors for these projects on this date.

1. Kalou Beach well will serve 5-7 persons, 1 dwelling and possibly 1 guest house (500 sqft or less, no full kitchen).

2. Waipuna Ohana well will serve about 5 persons and 1 dwelling.

3. B.J. Barnard well: Ms. Barnard lives alone, this is a request to deepen an existing well, 1 dwelling, 1 person.
September 28, 2000

TO: Dean Y. Uchida, Administrator  
Land Division

FROM: Linnel T. Nishioka, Deputy Director  
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application  
Larsen Beach (Well No. 1120-32)

Transmitted for your review and comment is a copy of the captioned well application which includes a request for a pump installation permit.

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 October 20, 2000.

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 Lenore Nakama of the Commission staff at 587-0218.

LN:ky  
Attachment(s)

RESPONSE:

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

X 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

X x Other comments: Original source of private title was Royal Patent Grant 535 issued on November 27, 1850.

Contact Person: Gary Martin Phone: 587-0421

Signed: Gary Martin Date: October 9, 2000
September 28, 2000

TO: Honorable Bruce S. Anderson, Director
Department of Health
Attention: Dennis Tulang, Wastewater Branch
William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction/Pump Installation Permit Application
Larsen Beach (Well No. 1120-32)

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LN:ky
Attachment(s)

RESPONSE:

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

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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).

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

No comments/objections

Contact Person: Lei N. Kajiwara
Phone: 586-4294

Signed: Lei N. Kajiwara
Date: 10-4-2000
Date: 10-4-2000

To: Joe Tateyama, Maui District Health Office
Phone 241-3323 Fax 241-3566
JTTATEYA@HEALTH.STATE.HI.US

From: Lori Kajiwara, Planning Design Section
Phone 586-4290 Fax 586-4300
Email: LKAJIWARA@eha.health.state.hi.us

Subject: Request for Information

Do you have any IWS files or records for the following:

(4) 9-11-94
Larsen Beach
7200 E Koolau Rd

Please indicate if [ ] sewered or [ ] not sewered.

If not sewered, is it on [ ] cesspool or [x] septic tank or [ ] aerobic unit or other,

[ ] ________________________________

Please indicate: Record Date: ________________________________
Submit Date: ________________________________
Plan Approval Date: ________________________________
Inspection Date: ________________________________
System Approval for Use Date: ________________________________

File # (if applicable) 3262-E

# of Bedrooms/or Use: ________________________________

septic tank is in but house not complete.
To: Art Bauckham, Planner, Environmental Planning Office
From: Dennis Tulang, Chief, Wastewater Branch
Subject: Review of Subdivision Application

Owner: Department of Hawaiian Home Lands
Subdivide the Lot Into 2 Lots and Transfer Subdivided Lot to Lessee’s Daughter for Residential Purposes
41-675 Ala Koa Street
TMK: (1) 4-1-16: Parcel 45 18,780 square feet

We have reviewed your letter and attached documentation pertaining to the above subject project. Once again, we must deny the subdivision request based on our Administrative Rules, Chapter 11-62, requiring a minimum of 10,000 square feet per lot.

Unless the lots can be connected to the County sewer service system, a minimum of 10,000 square feet is required for the use of a treatment individual wastewater system. It has been further documented that the subject project is serviced by a cesspool and not within the County sewer service system.

All wastewater plans must conform to applicable provisions of the Department of Health’s Administrative Rules, Chapter 11-62, "Wastewater Systems." We do reserve the right to review the detailed wastewater plans for conformance to applicable rules.
September 28, 2000

Mr. Steve Goldberg
P.O. Box 535
Kilauea, HI 96754

Dear Mr. Goldberg:

Well Construction/Pump Installation Permit Application for Well No. 1120-32

We acknowledge receipt, on September 14, 2000, of your completed Well Construction/Pump Installation permit application for the Larsen Beach (Well No. 1120-32). You can expect your application to be processed within ninety (90) days from this date.

For your information, the process of constructing a well is normally regulated and permitted in two (2) steps. First, a well construction permit is issued for drilling and testing purposes only. Based upon information provided by you through a Well Completion Report Part 1 (Well Construction), a pump installation permit (upon completed application) may then be issued to authorize pump work. If a pump is installed then a Well Completion Report Part 2 (Pump Installation) is required.

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

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

LN:ky

c: Lee Joseph
September 28, 2000

TO: Honorable Bruce S. Anderson, Director
    Department of Health
    Attention: Dennis Tulang, Wastewater Branch
    William Wong, Safe Drinking Water Branch

FROM: Timothy E. Johns, Chairperson

SUBJECT: Well Construction/Pump Installation Permit Application
        Larsen Beach (Well No. 1120-32)

Transmitted for your review and comment is a copy of the captioned well 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 October 20, 2000.

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 Lenore Nakama of the Commission staff at 587-0218.

LN:ky
Attachment(s)

RESPONSE:

[ ] This well qualifies as a source which will serve as a source of potable water to a public water system (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.

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[ ] 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).

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

[ ] No comments/objections

Contact Person: _________________________ Phone: ______________

Signed: _______________________________ Date: ______________
September 28, 2000

TO:        Dean Y. Uchida, Administrator
           Land Division

FROM:      Linnel T. Nishioka, Deputy Director
           Commission on Water Resource Management

SUBJECT:   Well Construction/Pump Installation Permit Application
           Larsen Beach (Well No. 1120-32)

Transmitted for your review and comment is a copy of the captioned well application
which includes a request for a pump installation permit.

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 October 20, 2000.

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 Lenore Nakama of the Commission staff at 587-0218.

LN:ky
Attachment(s)

RESPONSE:

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

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

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

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

[] No objections

[] Other comments:

Contact Person: _________________________ Phone: ________________

Signed: _____________________________ Date: ________________
<table>
<thead>
<tr>
<th>F YR</th>
<th>APP D</th>
<th>SRC OBJ</th>
<th>COST CTR</th>
<th>PROJECT PH ACT</th>
<th>AMOUNT</th>
<th>NAME/DESCRIPTION (WANG INPUT)</th>
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<tr>
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<td>326</td>
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<td>1026</td>
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**REMARKS:**

**LINE (1)** Wai Puna Ohana Well (Well No. 1123-07)

**LINE (2)** BJ Barnard Well (Well No. 1123-01)

**LINE (3)** Larsen Beach Well (Well No. 1120-32)
<table>
<thead>
<tr>
<th>Approved Well No</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
<th>Type</th>
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<th>Pump Installation</th>
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<td>Issued Signed WCR2 Accept</td>
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<tr>
<td>7/14/2000</td>
<td>Wai Oia</td>
<td>Scott Rautmann</td>
<td>C-21457</td>
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*Extended to 1/1 (see draft letter)*
State of Hawai‘i
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

1. (a) WELL OWNER: J. Moore Contact Person: Phone: 
Mailing Address: Fax: 
(b) LAND OWNER: Lee Joseph Contact Person: Phone: 
Mailing Address: Fax: 
(c) CONTRACTOR: OASISWATER Contact Person: Phone: 
Mailing Address: Fax: 

2. WELL NAME: Large Beach Island: Kauai Address 7200 E Koloa Rd Tax Map Key: 

3. PROPOSED WORK: (check all that apply) 
   - [ ] Construct New Well 
   - [ ] Modify Existing Well 
   - [ ] Abandon/Seal 

*State Well No.: (if unknown, please call Commission at 587-0225) 

4. CONSTRUCTION: [ ] Drilled [ ] Dog [ ] Shaft [ ] Tunnel 
Is this well part of a battery of wells? [ ] Yes [ ] No (Please describe). 

5. PROPOSED PUMP INFORMATION: Rated Pump Capacity: 20 gallons per minute 
Pump Type (Check one): 
   - [ ] Deep Well Turbine 
   - [ ] Submersible 
   - [ ] Centrifugal 
   - [ ] Rotary 
   - [ ] Rotary-Displacement 
   - [ ] Rotary-Gear 
   - [ ] Propeller 
   - [ ] Reciprocating 
   - [ ] Impulse 

6. PROPOSED USE: (check all that apply) 
   - [ ] Municipal (including hotels, stores, etc.) 
   - [ ] Domestic (individual, noncommercial water system) 
   - [ ] Irrigation (crop) 
   - [ ] Industrial 
   - [ ] No. of Dwelling Units: 
   - [ ] No. of Acres: 
   - [ ] Military 
   - [ ] Other (explain): 

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: 2000 gallons per day 
   (b) METHOD OF FLOW MEASUREMENT: [ ] Flowmeter [ ] Open-pipe [ ] Weir [ ] Orifice [ ] None [ ] Other (explain) 

8. LEGAL REQUIREMENTS: [ ] CDUP [ ] SMAP [ ] EIS [ ] EA [ ] None [ ] Other (explain) 

9. REMARKS, EXPLANATIONS: 

I understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlation of water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.

Well Owner: Signature: Date: 
Landowner: Signature: Date: 
Contractor: OASISWATER Signature: Date: 

For official use only 
Latitude: Aquifer System No. 2000 State Well No.: 120-37- 
State: Date:
**Solid Casing Material:**

Carbon Steel: compliant with (check one or more):  
- ANSI/AWWA C200  
- API Spec 5L  
- ASTM A53  
- ASTM A139  
- Other

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

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

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

Thermoset Plastic: (check one):  
- Filament Wound Resin Pipe conforming to ASTM D2996  
- Centrifugally Cast Resin Pipe conforming to ASTM D2997  
- Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517  
- Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950  
- PTFE Fluorocarbon Tubing conforming to ASTM D3296  
- FEP Fluorocarbon Tubing conforming to ASTM D3296

**Open Casing Material:**

Carbon Steel: compliant with (check one or more):  
- ANSI/AWWA C200  
- API Spec 5L  
- ASTM A53  
- ASTM A139  
- Other

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

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

\[
\text{Bottom Elevation of Well Limit = } \left( \text{Water Elevation - } \frac{4}{4} \times \text{Aquifer Thickness} \right)
\]

Example: Estimated = 2 ft. Water Level Elev.  
\[\text{Bottom Elevation of Well Limit} = (2 - \frac{1}{4} \times 2) = -1.5 \text{ ft.}\]
NOTICE OF PROPERTY ASSESSMENT - 1999

This is not a bill

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FEE OWNER: JOSEPH, LEE S
LESSEE/ASSIGNEE: JOSEPH LEE S
POBOX 672
KILAUEA, HI 96754-0672

ONLY RETURN POSTCARD FOR EXEMPTION OR ADDRESS CHANGE

A property owner who is currently receiving an exemption has the legal duty of reporting any change in the status, ownership, or use of the property to the Assessor.

Tax Key Number: 4-9-011-009-0004 001 COUNTY OF KAUA'I

Property Address:

1. Notice of change in exemption status. (Please complete the following):

   The above property has been ☐ sold/leased ☐ rented ☐ vacated

   Date of change: ______________________

   I understand that the filing of this card voids the claim for exemption previously filed by me.

2. Notice of change of mailing address. (Please complete the following):

   NAME ____________________________________________________________
   ADDRESS _________________________________________________________
   CITY / STATE / ZIP _________________________________________________
   COUNTRY (Foreign) ________________________________________________

   SIGNATURE ________________________ DAYTIME PHONE (____)