CHECKLIST

Type of Permit: ☐ Well Construction ☑ Pump Installation ☐ Water Use Required

Well Name: Kalilikai-Fischer
Well No.: 1326-02
Island: Kauai

Applicant: Gary R. Fischer
Landowner: same
Consultant: TBD
TMK: 5-3-4:11

Appl Recd: 15 Dec 94
Mapped/#: 21 Dec 94
Logcomp: 28 Dec 1994
Logbk: 28 Dec 1994

1. Acknowlgmt
2. Fee Depos 24 Jan 94

3. Copies Sent for Review
   ☑ DoH/ Drink Water 28 Dec 1994
   ☑ Wastewater 28 Dec 1994
   ☑ Hist. Preserv
   ☑ Aquat Res
   ☑ OHA
   ☑ DHHL
   ☑ Honolulu BWS
   ☑ Maui DoW
   ☑ Kauai DoW
   ☑ Hawaii DoW PW
   ☑ SCLDF 28 Dec 1994

Comments Recd

Bulletin

to Agenda

Submittal to Appl

CWRM _Appr _Deny

Permit/Notice to Appl
Mr. Gary Fischer  
P.O. Box 837  
Hanalei, HI 96714  

Dear Mr. Fischer:

Well Completion Report for Well No. 1326-02

Thank you for providing the elevation survey and date of well construction completion for the Kalihiakai-Fischer Well (Well No. 1326-02). This fulfills Standard Condition 5 of your well construction/pump installation permit.

We note that the well completion report indicates an initial water level at 9 feet below ground surface, while the elevation survey shows the ground elevation to be 7.8 M.S.L. This indicates an initial water level below mean sea level, which is unlikely. In the future, should you find that either the initial water level or ground elevation information was in error, we would appreciate your informing us so that we may update our records.

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

Sincerely,

EDWIN T. SAKODA  
Acting Deputy Director

LN:ss
Gary Fischer
P.O. Box 837
Hanalei, Kauai, HI 96714

Project: 1644

Subject: Well Head Elevation  TMK: 5-3-04:11 (1326-02)
Anini, Kalihikai, Kauai, Hawaii

Gary;

This is to report that on April 22, 1998, we performed a survey and determined the Well head elevation on the subject property to be 8.50 M.S.L. and the adjacent ground elevation to be 7.8 M.S.L. The bench mark origin is located on the S/E corner of the Anini Pavilion slab, elevation being 7.51 M.S.L., reference County of Kauai, Public Works Department.

Feel free to contact me should you have any questions.

April 24, 1998
P.O. Box 851
Hanalei, Hawaii 96714

WAGNER ENGINEERING SERVICES, INC.

April 24, 1998
P.O. Box 851
Hanalei, Hawaii 96714

Ronald J. Wagner
Licensed Professional Land Surveyor Certificate No. 5074
Mr. Gary R. Fischer  
P.O. Box 837  
Hanalei, HI 96714  

Dear Mr. Fischer:

Well Construction/Pump Installation Permit  
Kalihikai-Fischer Well (Well No. 1326-02)  
Kalihikai, Hanalei, Kauai

Thank you for submitting the Well Completion Report - Parts I & II for the subject well. However, we are still not in receipt of the following information that is required under Condition 5 of your permit:

1. Date well construction completed (line item 6 of Well Completion Report - Part I)  
2. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor

We have received the ground elevation survey for your dwelling. However, we require an elevation survey for your well. Please submit the elevation survey documentation along with an as-built sectional drawing of your well showing the elevation benchmark within thirty (30) days from the date of this letter.

Be advised that failure to comply with the terms of your permit may result in daily fines of up to $1000.

If you have any questions, please contact Lenore Nakama at 587-0218 or toll-free at 274-3141 (Kauai), extension 70218.

Sincerely,

EDWIN T. SAKODA  
Acting Deputy Director

LN:ss
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<th>DATE:</th>
<th>SUSPENSE DATE:</th>
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</table>

3/23/98 Pen Roy & Glenn - OK to exempt from pump test (since under 1HFS, would be exempt).  
3/25/98 Gang called. Well was completed. He will send in their survey.
Mr. Gary R. Fischer  
P.O. Box 837  
Hanalei, HI 96714  

Dear Mr. Fischer:

Well Construction/Pump Installation Permit  
Kalihikai-Fischer Well (Well No. 1326-02)  
Kalihikai, Hanalei, Kauai

Thank you for submitting the Well Completion Report - Parts I & II for the subject well. However, we are still not in receipt of the following information that is required under Condition 5 of your permit:

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Sincerely,

Edwin T. Sakoda  
Acting Deputy Director
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Estimated Steady-State drawdown at 1-mile radius is 0 ft.

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## WELL COMPLETION REPORT

### WELL CONSTRUCTION REPORT

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<td>Sand - Coral Gravel</td>
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<tr>
<td>10 to 19 ft.</td>
<td>Sand - Rubble - Clay Mix</td>
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<tr>
<td>19 to 60 ft.</td>
<td>Clay</td>
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<tr>
<td>60 to 85 ft.</td>
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<th>Rock Description, Water Level, Dates, etc.</th>
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<tr>
<td>0 to 10 ft.</td>
<td>Sand - Coral Gravel</td>
</tr>
<tr>
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</tr>
<tr>
<td>19 to 60 ft.</td>
<td>Clay</td>
</tr>
<tr>
<td>60 to 85 ft.</td>
<td></td>
</tr>
</tbody>
</table>

### PART I.

1. **State Well No.:** 1326-02 **Well Name:** KALHIKA'I-FISCHER **Island:** KAUAI
2. **Location/Address:**
3. **Drilling Company:**
4. **Name of driller who performed work:**
5. **Type of rig/constructor:**
6. **Date(s) Well Construction and pump tests (if any) completed:**
7. **GROUND ELEVATION** (referenced to mean sea level, msl):
   - Well Bench Mark (description/location):
   - Elevation (msl):
8. **DRILLER'S LOG:** Please attach geologic log (if available or if required by permit)
9. **Total depth of well below ground:** 85 ft.
10. **Hole size:**
    - 8 inch dia. from 0 ft. to 85 ft. below ground
    - 8 inch dia. from 0 ft. to 85 ft. below ground
    - 8 inch dia. from 0 ft. to 85 ft. below ground
11. **Casing installed:**
    - 4\(\frac{1}{2}\) in. I.D. x 4\(\frac{1}{2}\) in. wall solid section to 62 ft. below ground
    - 4\(\frac{1}{2}\) in. I.D. x 4\(\frac{1}{2}\) in. wall perforated section to 85 ft. below ground
12. **Annulus:**
    - Grouted from 0 ft. below ground to 62 ft. below ground
    - Gravel packed from 62 ft. below ground to 85 ft. below ground
13. **Initial water level:** 9 ft. below ground. Date and time of measurement: _______________
14. **Initial chloride:** _______________ ppm Date and time of sampling: _______________
15. **Initial temperature:** 70°F Date and time of measurement: _______________
16. **PUMPING TESTS:** Reference Point (R.P.) used: Ground, which elevation is 7 ft.
   - (1) Step-Drawdown Test Date _______________
   - (2) Long-term Aquifer Test Date _______________
17. **Aquifer Pump Test Procedures data & graphs** (1/8/96 LTAT Form) attached? __ Yes __ No
18. **As-built drawings attached?** __ Yes __ No
19. **Other remarks/comments:** (On back of this form)

### Well Drilling Contractor (print)

**Signature** __SELF__

**C-57 Lic. No.**

**Date**

---

**Surveyor (print)**

**Signature** __________________________

**Lic. No.**

**Date**

---

**Applicant (print)**

**Signature** __GARY FISCHER__

**Date** 11-5-97

---

*Amended by telecomm w/ Gary Fischer 3/25/98.*
## PART II. (PERMANENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: **SELF FISCHER CONST, CO.**

21. Name of person performing work: **GARY FISCHER**

22. Date Pump Installation Completed: **5-10-95**

23. PUMP INSTALLATION:
   - Pump Type, Make, Serial No.: **GROUNDfos # 95011742**
   - Capacity: **10 gpm**
   - Motor type, H.P., Voltage, rpm: **230 V 1/2 Hp**
   - Depth of Pump Intake Setting: **80 ft.** below, which elevation is **9 ft.**
   - Depth to bottom of airline: **9 ft.** below, which elevation is **9 ft.**
   - Pumping Head is **9 ft.**
   - Type of flow meter: **** which measures in ****

24. As-built drawings attached? **Yes** **No**

25. Other remarks/comments: (See below)

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8. (cont'd) DRILLER'S LOG (cont'd):

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19. & 25. Remarks: **Capacity of well 40 gpm at head of 40 ft. below surface**
Concrete 

Figure #3

Power Wire

Well Seal

Water Out

Wire

Concrete

Gravel

Perforated Casing

Pump 80'

0 = 9' above msl

-65'

-85'
DESIGNATION OF UTILITY EASEMENT "E-1A" IN FAVOR OF KAUAI ELECTRIC AND GTE HAWAIIAN TELEPHONE COMPANY INCORPORATED, AFFECTING A PORTION OF PARCEL 14 (TMK 15-3-06), PORTION OF POSTPONEMENT AREA I OF L.C. A.W. 11215-3, KALIHIKAI, PRINCEVILLE PLANTATION - HANALEI, KAUI, HAWAII.

EASEMENT "E-1A"  
Approx. 10'-0" wide for utilities purposes  
TAX MAP KEY: 5-3-06:14  
LOT NO: 2

OWNER(S): PRINCEVILLE DEVELOPMENT CORPORATION

ADDRESS: P.O. BOX 3941  
PRINCEVILLE, HAWAII 96723

CITIZENS UTILITIES COMPANY  
KAUI ELECTRIC DIVISION

SCALE: 1/100 = 80'-0"  
APPROVED BY: A.H.M

DATE: May 21, 1986

OVERHEAD PRIMARY/SECONDARY LINE EXTENSION FOR  
FISCHER, GARY; OFF ANINI BEACH ROAD

DESIGNATION OF AN EASEMENT FROM:  
PRINCEVILLE DEVELOPMENT CORPORATION

DRAWING NUMBER  
85-2-521CT
Mr. Gary Fischer  
P.O. Box 837  
Hanalei, HI 96714  

SUBJECT: GROUND ELEVATION SURVEY  
TMK: 5-3-4:11

Dear Mr. Fischer:

We completed our ground elevation survey and wish to inform you of the results:

GROUND ELEVATION SURVEY

1. Our ground elevation survey establishes the existing ground elevations at the proposed site of your new dwelling varies between 8.72 feet above Mean Sea Level (MSL) and 9.76 feet above MSL.

The benchmark (BM) used to establish the above mentioned elevations is a nail in a tree located in your property. The corresponding elevation for this benchmark is 9.46 feet above MSL.

Enclosed is a sketch of your lot plan that shows the above elevations and the benchmark location.

2. Based on the Federal Insurance Rate Maps (FIRM) dated March 4, 1987, your property is located in a Zone AE with a corresponding base flood elevation of 9 feet above MSL. Zone AE is described as a special flood hazard area inundated by the 100 year flood.
3. Since the existing ground at the subject property is lower than the base flood elevation, the proposed structure will need to comply to the County of Kauai's flood ordinances.

Should you have any questions, do not hesitate to contact Alex Pascual of my staff at 241-6616.

Very truly yours,

[Signature]
Ken Kitabayashi
Chief, Division of Engineering

AP
Attachment
1. SUBJECT: GROUND ELEVATION SURVEY

2. REFERRAL BY: GARY FISCHER
   Date: JAN. 5, 1995

3. INVESTIGATED BY: J. CLARK
   Date: 1/9/95

4. SITUATION:
   (1) INSTALL B.M.
   (2) SURVEY PROPOSED SITE FOR NEW DWELLING

5. LOCATION (by Tax Key where possible):
   5-3-4: 11

6. FINDINGS:
   (Nail in Face)
   Grid: 9.26
   9.03
   8.86
   9.72

7. ESTIMATED COST (Explain coverage of estimation):

8. RECOMMENDATION: AE - 9, BEST
Solid results are reported on a wet weight basis.

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DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit
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<td>6/13 97</td>
</tr>
<tr>
<td>Silver</td>
<td>ND</td>
<td>0.002</td>
<td>mg/L</td>
<td>6/13 97</td>
</tr>
<tr>
<td>Thallium</td>
<td>ND</td>
<td>0.002</td>
<td>mg/L</td>
<td>6/13 97</td>
</tr>
<tr>
<td>Zinc</td>
<td>0.003</td>
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<td>mg/L</td>
<td>6/13 97</td>
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<tr>
<td><em>245.1 Mercury in Water by Manual Cold Vapor</em></td>
<td></td>
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<tr>
<td>Mercury</td>
<td>ND</td>
<td>0.0004</td>
<td>mg/L</td>
<td>6/16 97</td>
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<tr>
<td><em>608 - Chlorinated Pesticides</em></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4'-DDD</td>
<td>ND</td>
<td>0.06</td>
<td>ug/L</td>
<td>6/18 97</td>
</tr>
<tr>
<td>4,4'-DDE</td>
<td>ND</td>
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<td>ug/L</td>
<td>6/18 97</td>
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<tr>
<td>4,4'-DDT</td>
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<td>ug/L</td>
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<td>0.03</td>
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<td>6/18 97</td>
</tr>
<tr>
<td>Alpha BHC</td>
<td>ND</td>
<td>0.03</td>
<td>ug/L</td>
<td>6/18 97</td>
</tr>
<tr>
<td>Beta BHC</td>
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<td>0.05</td>
<td>ug/L</td>
<td>6/18 97</td>
</tr>
<tr>
<td>Chlordane</td>
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<td>0.12</td>
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<td>6/18 97</td>
</tr>
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<tr>
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<td>ND</td>
<td>0.05</td>
<td>ug/L</td>
<td>6/18 97</td>
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</tbody>
</table>

DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit.
Client: Princeville Corporation  
P.O. Box 3040  
Princeville, HI 96722  

Sample Collected On: 06-03-97  
Sample Received On: 06-04-97  
Analysis Report Date: 06-27-97

<table>
<thead>
<tr>
<th>Water Quality Test</th>
<th>Result</th>
<th>Sample Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Units</td>
<td>Fisher</td>
</tr>
<tr>
<td>pH</td>
<td>std units</td>
<td>8.238</td>
</tr>
<tr>
<td>Ammonia - Nitrogen</td>
<td>mg/l as N</td>
<td>11.20</td>
</tr>
<tr>
<td>Nitrate + nitrite</td>
<td>mg/l as N</td>
<td>189.00</td>
</tr>
<tr>
<td>Total Nitrogen</td>
<td>mg/l as N</td>
<td>569.80</td>
</tr>
<tr>
<td>Total Phosphorus</td>
<td>mg/l as P</td>
<td>55.80</td>
</tr>
<tr>
<td>Silica</td>
<td>mg/l as SiO2</td>
<td>9341</td>
</tr>
<tr>
<td>Turbidity</td>
<td>n.t.u.</td>
<td>0.98</td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>mg/l</td>
<td>0.40</td>
</tr>
<tr>
<td>Salinity</td>
<td>ppt</td>
<td>0.228</td>
</tr>
<tr>
<td>Oil &amp; Grease</td>
<td>mg/l</td>
<td>n.d.</td>
</tr>
</tbody>
</table>

n.d. = none detected.
Valid results are reported on a wet weight basis.

<table>
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<tr>
<th>Parameter</th>
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<th>PRL</th>
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<th>CAS#</th>
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<tr>
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<td>Methamphetamine</td>
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<td>Motor Oil</td>
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<tr>
<td>Lead</td>
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<td>JOW</td>
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</table>

Prep Method: EPA 3510

Report of Laboratory Analysis

This report shall not be reproduced except in full without the written permission of Pace Analytical Services, Inc.
<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>DLR</th>
<th>Units</th>
<th>Date/Analyst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endosulfan sulfate</td>
<td>ND</td>
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</tr>
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<td>Endrin</td>
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<td>ug L</td>
<td>6/18/97</td>
</tr>
<tr>
<td>Endrin aldehyde</td>
<td>ND</td>
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<td>Gamma BHC (endrinex)</td>
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<td>Heptachlor</td>
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<tr>
<td>Heptachlor epoxide</td>
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<td>Ioxaphene</td>
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<td>3.5</td>
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</tbody>
</table>

DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit.
### Analyte Result DLR Units Date/Analyst

#### 200.7 ICP Metals - Water Only

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>DLR</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
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<td>Cadmium</td>
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<td>Chromium</td>
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<td>Copper</td>
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<tr>
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<td>Silver</td>
<td>ND</td>
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<td>mg L.</td>
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</tr>
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<td>Thallium</td>
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<td>mg L.</td>
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<tr>
<td>Zinc</td>
<td>0.003</td>
<td>0.002</td>
<td>mg L.</td>
<td>6/13/97 M1</td>
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</table>

#### 245.1 Mercury in Water by Manual Cold Vapor

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Result</th>
<th>DLR</th>
<th>Units</th>
<th>Date/Analyst</th>
</tr>
</thead>
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<td>Mercury</td>
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<td>mg L.</td>
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#### 608 - Chlorinated Pesticides

<table>
<thead>
<tr>
<th>Analyte</th>
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<tbody>
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<td>4,4'-DDD</td>
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<tr>
<td>4,4'-DDT</td>
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<td>ug L.</td>
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<tr>
<td>4,4'-DDE</td>
<td>ND</td>
<td>0.05</td>
<td>ug L.</td>
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<tr>
<td>Aldrin</td>
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</tr>
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<td>Alpha BHC</td>
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<tr>
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<tr>
<td>Chlordane</td>
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<td>6/18/97 LS</td>
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<td>ug L.</td>
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<td>ND</td>
<td>0.05</td>
<td>ug L.</td>
<td>6/18/97 LS</td>
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</table>

**DLR** Detection limit for reporting purposes, **ND** - Not Detected below indicated detection limit

---

**ASSOCIATED LABORATORIES Analytical Results Report**
Lab Request 10503 results, page 1 of 6
### Water Quality Test Results

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Result</th>
<th>Sample Location</th>
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</thead>
<tbody>
<tr>
<td>pH</td>
<td>std units</td>
<td>8.238</td>
<td>Fisher</td>
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<td>Ammonia - Nitrogen</td>
<td>mg/l as N</td>
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<td>Silica</td>
<td>mg/l as SiO2</td>
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<td>Turbidity</td>
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<td>0.98</td>
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<tr>
<td>Total Suspended Solids</td>
<td>mg/l</td>
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<td>Salinity</td>
<td>ppt</td>
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<td>Oil &amp; Grease</td>
<td>mg/l</td>
<td>n.d.</td>
<td></td>
</tr>
</tbody>
</table>

n.d. = none detected.

### Analysis Details

**Client:** Princeville Corporation  
P.O. Box 3040  
Princeville, HI 96722

**Sample Collected On:** 06-03-97  
**Sample Received On:** 06-04-97  
**Analysis Report Date:** 06-27-97

**Analyzes performed by:**

Marine Analytical Specialist  
1738 Laukahi Street  
Honolulu, HI 96821  
Ph/Fax: 808-373-5129

**EPA Lab No.** HI00009
Mr. Gary Fischer
P.O. Box 837
Hanalei, HI 96714

SUBJECT: GROUND ELEVATION SURVEY
TMK: 5-3-4:11

Dear Mr. Fischer:

We completed our ground elevation survey and wish to inform you of the results:

GROUND ELEVATION SURVEY

1. Our ground elevation survey establishes the existing ground elevations at the proposed site of your new dwelling varies between 8.72 feet above Mean Sea Level (MSL) and 9.76 feet above MSL.

The benchmark (BM) used to establish the above mentioned elevations is a nail in a tree located in your property. The corresponding elevation for this benchmark is 9.46 feet above MSL.

Enclosed is a sketch of your lot plan that shows the above elevations and the benchmark location.

2. Based on the Federal Insurance Rate Maps (FIRM) dated March 4, 1987, your property is located in a Zone AE with a corresponding base flood elevation of 9 feet above MSL. Zone AE is described as a special flood hazard area inundated by the 100 year flood.
3. Since the existing ground at the subject property is lower than the base flood elevation, the proposed structure will need to comply to the County Of Kauai's flood ordinances.

Should you have any questions, do not hesitate to contact Alex Pascual of my staff at 241-6616.

Very truly yours,

Ken Kitabayashi
Chief, Division of Engineering

AP
Attachment
1. SUBJECT: GROUND ELEVATION SURVEY

2. REFERRAL BY: GARY FISCHER
   Date: JAN. 5, 1995

3. INVESTIGATED BY: J. CLYNO
   Date: 1/9/95

4. SITUATION:
   (1) INSTALL B.M.
   (2) SURVEY PROPOSED SITE FOR NEW DWELLING

5. LOCATION (by Tax Key where possible): 5-3-'4: 11

6. FINDINGS:
   BM 9.46 (nail in tree)
   Grd. 9.26
   9.03
   8.86
   9.72

7. ESTIMATED COST (explain coverage of estimation):

8. RECOMMENDATION: AE - 9' MSL
MEMORANDUM FOR THE RECORD

FROM: Lenore Nakama

SUBJECT: 1326-02 Well Completion Report

Gary Fisher called on 10/9/97 regarding our request for well completion information. He claims he submitted the WCR to CWRM when the well was completed. Requested that he submit a copy of what he sent us, since we have nothing in our files. He said he would look through his records for a copy. He said the driller was a guy named Shook or something like that (another Kauai resident from the Kilauea area who claims he's a drilling contractor).
Mr. Gary R. Fischer  
P.O. Box 837  
Hanalei, HI 96714

Dear Mr. Fischer:

Notice of Expiration of Well Construction/Pump Installation Permit  
Kalihikai-Fischer Well (Well No. 1326-02)  
Kalihikai, Hanalei, Kauai

Our records show that a well construction/pump installation permit was issued for the subject well on March 14, 1995 (attached). This permit expired on March 14, 1997.

Please submit the following items that are required under Standard Condition 5 within thirty (30) days from the date of this letter:

b. Elevation (referenced to mean sea level) survey by a Hawaii-licensed surveyor.
c. As-built sectional drawing of the well.
d. Plot plan and map showing the exact location of the well.
e. Complete pumping test records; including time, pumping rate, drawdown, chloride content, and water quality data.

Be advised that failure to comply with the terms of your permit may result in daily fines of up to $1000.

If you have any questions, please contact Lenore Nakama at 587-0218 or toll-free at 274-3141 (Kauai), extension 70218.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

LN:ss  
Enclosures
To. Commission on Water Resource Management,

I am starting work on well No. 1326-02.

Gary R. Fischer

3-20-95
WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT

for

Kalihikai-Fischer Well
(Well No. 1326-02)
Kalihikai, Hanalei, Kauai

TO: Gary R. Fischer
P.O. Box 837
Hanalei, HI 96714

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Kalihikai-Fischer Well (Well No. 1326-02) is approved subject to the following conditions:

STANDARD WELL CONSTRUCTION/PUMP INSTALLATION PERMIT CONDITIONS

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

2. The well construction/pump installation permit shall be for construction, testing, and installation of a 10 gpm capacity, or less, pump in the well. The applicant shall submit to the Commission the test results and proposed permanent pump information, based on the test, for approval by the Chairperson.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct and pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.
4. An approved meter or other appropriate device or means for measuring and reporting total water usage need not be installed if the quantity of use averaged over a one-year period does not exceed 50,000 gallons per month. This conforms with the Commission’s September 16, 1992 direction on reporting requirements.

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

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

7. The permit application and staff submittal, approved by the Commission at its meeting on February 15, 1995, shall be incorporated by reference in the permit.

8. The permit may be revoked if work is not started within six (6) months after the date of issuance or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

SPECIAL CONDITION

1. Water from the well shall not be used for drinking water unless properly tested and treated.
2. The applicant shall contact the State Historic Preservation Division (Telephone: 587-0047) before starting any work on the project. The applicant shall obtain a written statement from the State Historic Preservation Division indicating that their concerns have been addressed, and a copy of that statement shall be sent to the Commission before work is started on the project.

MICHAEL D. WILSON, Chairperson
Commission on Water Resource Management

MAR 14 1995
Date of Issuance

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

Applicant's Signature: [Signature]
Date: 3-20-95

Printed Name: [Name]

Firm or Title: __________________________

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

cc: USGS
Department of Health
Safe Drinking Water Branch
Ground Water Protection Program
Wastewater Branch
Kauai Department of Water
State Historic Preservation Division
March 2, 1995

Mr. Gary Fischer
P.O. Box 837
Hanalei, Hawaii 96714

Dear Mr. Fischer:

SUBJECT Historic Preservation Review
TMK: 5-3-04: 11 & 18
Anini, Hanalei, Kauai

Our archaeologist for the County of Kauai, Nancy McMahon inspected the above project on February 21, 1995 and received new information on the land use history of the parcels. The land appears to have been heavily altered by past activities, making it highly unlikely that significant historic sites remain. Therefore, we believe that this project will have "no effect" on significant historic sites.

If historic remains such as artifacts, or charcoal deposits are found, please stop work in the immediate area and contact the State Historic Preservation Division at 587-0047 immediately. Our office will assess the situation and make recommendations for mitigative action, if needed.

If you have any questions, please call Nancy McMahan 742-7033.

Sincerely yours,

DON HIBBARD, Administrator
State Historic Preservation Division

NM: ank
WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT

for

Kalihikai-Fischer Well
(Well No. 1326-02)
Kalihikai, Hanalei, Kauai

TO: Gary R. Fischer
P.O. Box 837
Hanalei, HI 96714

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", your application to construct, test, and install a pump in Kalihikai-Fischer Well (Well No. 1326-02) is approved subject to the following conditions:

STANDARD WELL CONSTRUCTION/PUMP INSTALLATION PERMIT CONDITIONS

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

2. The well construction/pump installation permit shall be for construction, testing, and installation of a 10 gpm capacity, or less, pump in the well. The applicant shall submit to the Commission the test results and proposed permanent pump information, based on the test, for approval by the Chairperson.

3. The proposed use shall not adversely affect existing or future legal uses of water in the area, including any surface water or established instream flow standards. This permit or the authorization to construct and pump water from a well shall not constitute a determination of correlative water rights. The permittee is notified and by this provision understands that the quantity of water taken from the well could be reduced by the Commission in the future. This permit is not a commitment that the pump capacity permitted here or even some lesser amount is guaranteed in the future.
4. An approved meter or other appropriate device or means for measuring and reporting total water usage need not be installed if the quantity of use averaged over a one-year period does not exceed 50,000 gallons per month. This conforms with the Commission's September 16, 1992 direction on reporting requirements.

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

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

7. The permit application and staff submittal, approved by the Commission at its meeting on February 15, 1995, shall be incorporated by reference in the permit.

8. The permit may be revoked if work is not started within six (6) months after the date of issuance or if work is suspended or abandoned for six (6) months, unless otherwise specified. The work proposed in the well construction permit application shall be completed within two (2) years from the date of permit approval, unless otherwise specified. The permit may be extended by the Commission upon a showing of good cause and good-faith performance. A request to extend the permit shall be submitted to the Commission no later than three (3) months prior to the date the permit expires. If the commencement or completion date is not met, the Commission may revoke the permit after giving the permittee notice of the proposed action and an opportunity to be heard.

**SPECIAL CONDITION**

1. Water from the well shall not be used for drinking water unless properly tested and treated.
WELL CONSTRUCTION AND PUMP INSTALLATION PERMIT
Well No. 1326-02

2. The applicant shall contact the State Historic Preservation Division (Telephone: 587-0047) before starting any work on the project. The applicant shall obtain a written statement from the State Historic Preservation Division indicating that their concerns have been addressed, and a copy of that statement shall be sent to the Commission before work is started on the project.

MICHAEL D. WILSON, Chairperson
Commission on Water Resource Management

MARCH 14, 1995
Date of Issuance

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

Applicant’s Signature: ___________________________ Date: ______________
Printed Name: ________________________________
Firm or Title: __________________________________

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

cc: USGS
Department of Health
   Safe Drinking Water Branch
   Ground Water Protection Program
   Wastewater Branch
Kauai Department of Water
State Historic Preservation Division
TO: Dr. Don Hibbard, Director  
Historic Preservation Program  
Mr. Henry M. Sakuda, Administrator  
Division of Aquatic Resources  

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

SUBJECT: Well Construction and Pump Installation Permit Applications  

Please review the following permit applications pursuant to your area of concern and submit your comments to us by JAN 13 1995.  

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

ES:ss  
Enc.  

Response:  

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested  

Contact Person:  
Signed: Henry M. Sakuda  
Date: 12/30/94  

Phone:  

MEMORANDUM

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

FROM: Henry Sakuda, Administrator
       Division of Aquatic Resources

SUBJECT: Comments on Well Nos. 2447-02 & 2447-03, Bayview G.C.
          Wells, Well Construction Application, Oahu; Well No. 2402-05,
          Kunia II Well No. 4, Well Construction Application, Oahu; Well
          No. 1119-01, Moloaa-Huddy, Well Construction Application,
          Kauai; Well No. 5425-15, Mahaulepu-Koloa F, Well
          Construction Application, Kauai; Well No. 1326-02, Kalihikai-
          Fischer, Well and Pump Application, Kauai.

Well Nos. 2447-02 & 03, Bayview G.C. Wells

The well sites are located on the Bayview Golf Course adjacent to Kawa Stream. Approximately 500,000 gallons of water will be pumped daily from the 84+ foot deep wells for golf course irrigation. We have no objections from the aquatic biological resources standpoint.

Well No. 2402-05, Kunia II Well No. 4

The well site is located north of Waipahu and about 1.2 miles west of Waikele Stream. Approximately 1.02 million gallons of potable water will be pumped daily from the 610-foot deep well for domestic use. We have no objections from the aquatic biological resources standpoint.

Well No. 1119-01, Moloaa-Huddy

The well site is located near sea level at Moloaa Bay. Approximately 350 gallons of water will be pumped daily from the 80-foot deep well for domestic use. We have no objections from the aquatic biological resources standpoint.

Well No. 5425-15, Mahaulepu-Koloa F

A 260-foot test well will be drilled near Mahaulepu Road above Kamala Point to supply the existing municipal water system. The proposed amount of withdrawal can not be estimated until water quality and potential pumping rate are defined. We have no objections from the aquatic biological resources standpoint.

Well No. 1326-02, Kalihikai-Fischer, Well and Pump Application, Kauai

We have no objections from the aquatic biological resources standpoint.
Well No. 1326-02, Kalihikai-Fishcher

The well site is located near sea level above Kalihikai Beach. Approximately 300 gallons of water will be pumped daily from the 80-foot deep well for domestic use. We have no objections from the aquatic biological resources standpoint.
Mr. Murl T. Nielsen
Department of Water
County of Kauai
4398 Pualoke Street
Lihue, Hawaii  96766

Dear Mr. Nielsen:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by JAN 1, 1995.

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

Sincerely,

[Signature]

Enc.

Response:

- [X] We have no objections
  - Not subject to our regulatory authority and permit
  - Comments attached
  - Additional information requested
  - Extended review period requested

Contact Person:  Val Matsunura  
Phone: 245-5410

Signed: Murl T. Nielsen, Manager & Chief Engineer  
Date: 01/25/95
Mr. Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
919 Ala Moana Blvd., 3rd Floor  
Honolulu, Hawaii 96814

Attn: Mr. Dennis Tulang

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by **JAN 13 1995**.

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

Sincerely,

[Signature]

for: RAE M. LOUI  
Deputy Director

ES:ss  
Enc.

Response

- We have no objections  
- Not subject to our regulatory authority and permit  
- Comments attached  
- Additional information requested  
- Extended review period requested

Contact Person: **Loni N. Kajiwara**  
Phone: **587-4242**  
Date: **1-19-95**

Signed: **Loni N. Kajiwara**
SUMMARY OF AMENDMENTS FOR FEBRUARY 15, 1995
COMMISSION ON WATER RESOURCE MANAGEMENT MEETING

AGENDA

ITEM 6  GARY R. FISCHER, APPLICATION FOR A WELL CONSTRUCTION/PUMP INSTALLATION PERMIT, KALIHIKA'I-FISCHERWELL (WELL NO. 1326-02), RCVD 12/15/94, CONSTRUCTION OF A 4-INCH DIAMETER, 80-FOOT DEEPWELL FOR DOMESTIC USE AT TMK 5-3-4:11, KALIHIKA'I, HANALEI, KAUAI

Amendment: Page 2, Special Condition, No. 2 was amended to read: "The applicant shall contact the State Historic Preservation Division (Telephone: 587-0047) before starting any work on the project. The applicant shall obtain a written statement from the State Historic Preservation Division indicating that their concerns have been addressed, and a copy of that statement shall be sent to the Commission before work is started on the project".
TO: Dr. Don Hibbard, Director  
Historic Preservation Program

Mr. Henry M. Sakuda, Administrator  
Division of Aquatic Resources

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

SUBJECT: Well Construction and Pump Installation Permit Applications

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

We have no objections
Not subject to our regulatory authority and permit
Comments attached
Additional information requested
Extended review period requested

Response:

ES: ss
Enc.

Contact Person: ___________________________ Phone: ____________ Date: ____________

Signed: ___________________________
MEMORANDUM

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

FROM: Henry Sakuda, Administrator
Division of Aquatic Resources

SUBJECT: Comments on Well Nos. 2447-02 & 2447-03, Bayview G.C. Wells, Well Construction Application, Oahu; Well No. 2402-05, Kunia II Well No. 4, Well Construction Application, Oahu; Well No. 1119-01, Moloaa-Huddy, Well Construction Application, Kauai; Well No. 5425-15, Mahaulepu-Koloa F, Well Construction Application, Kauai; Well No. 1326-02, Kalihikai-Fischer, Well and Pump Application, Kauai.

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The well sites are located on the Bayview Golf Course adjacent to Kawa Stream. Approximately 500,000 gallons of water will be pumped daily from the 84+ foot deep wells for golf course irrigation. We have no objections from the aquatic biological resources standpoint.

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Well No. 1326-02, Kalihikai-Fishcher

The well site is located near sea level above Kalihikai Beach. Approximately 300 gallons of water will be pumped daily from the 80-foot deep well for domestic use. We have no objections from the aquatic biological resources standpoint.
January 12, 1995

MEMORANDUM

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

FROM: Don Hibbard, Administrator
State Historic Preservation Division

SUBJECT: Historic Preservation Review -- Application for
Well Construction & Pump Installation Permit Application
Well No. 1326-02 (Kalihikai- Fischer), TMK: 5-3-4: 11
Kalihikai, Hanalei, Kauai

We have reviewed the above permit application. A review of our files indicates that several burials sites and possible abandoned taro pondfields exist nearby. This makes it likely that historic sites are present.

Given this information we recommend the following condition be attached to this permit to ensure "no adverse effect" to any significant historic sites that might be present:

1. An archaeological inventory survey with subsurface testing be conducted [specifically the well locations] by a qualified archaeologist, to determine if significant historic sites or burials are present. Findings need be submitted to the State Historic Preservation Division for review in a report format. If significant historic sites prove to be present, then the applicant will need to develop an acceptable mitigation plan in consultation with our Division and will need to execute this plan prior to land alterations.

If you have any questions, please call Ms. Nancy McMahon at 587-0047.

NM:amk
Mr. Gary R. Fisher
P.O. Box 837
Hanalei, Hawaii 96714

Dear Mr. Fisher:

We have received your application and filing fee for a permit to construct and install a pump in Kalihikai-Fischer Well (Well No. 1326-02) at Kalihikai, Kauai, (TMK: 5-3-4:11). We are reviewing the application for completeness.

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

Sincerely,

[Signature]

for RAE M. LOUI
Deputy Director

ES: ss
Mr. Thomas Arizumi, Chief
Environmental Management Division
State Department of Health
919 Ala Moana Blvd., 3rd Floor
Honolulu, Hawaii 96814

Attn: Mr. William Wong

Dear Mr. Arizumi:

**Well Construction and Pump Installation Permit Applications**

Please review the following permit applications pursuant to your area of concern and submit your comments to us by **JAN 13 1995**.

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

Sincerely,

[Signature]

for RAE M. LOUI
Deputy Director

ES:ss
Enc.

Response:

( ) We have no objections
( ) Not subject to our regulatory authority and permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
Mr. Thomas Arizumi, Chief  
Environmental Management Division  
State Department of Health  
919 Ala Moana Blvd., 3rd Floor  
Honolulu, Hawaii 96814

Attn: Mr. Dennis Tulang

Dear Mr. Arizumi:

Well Construction and Pump Installation Permit Applications

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

Sincerely,

[Signature]

for: RAE M. LOUI  
Deputy Director

Response:

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person:  
Phone:  
Signed:  
Date:
Ms. Marjorie Ziegler  
Sierra Club Legal Defense Fund, Inc.  
223 South King Street, Suite 400  
Honolulu, Hawaii  96813

Dear Ms. Ziegler:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by **JAN 13 1995**.

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

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

---

Response:

( ) We have no objections  
( ) Not subject to our regulatory authority and permit  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Contact Person: ___________________________  Phone: ___________________________

Signed: ___________________________  Date: ___________________________
TO: Honorable Hoaliku L. Drake, Director
department of Hawaiian Home Lands

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

FROM: Keith W. Ahue, Chairperson
Commission on Water Resource Management

SUBJECT: Well Construction and Pump Installation Permit Applications

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Enc.

Response:

( ) We have no objections
( ) Not subject to our regulatory authority and permit
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( ) Additional information requested
( ) Extended review period requested

Contact Person: ____________________________ Phone: ______________
Signed: ____________________________ Date: ___________________
TO: Dr. Don Hibbard, Director
   Historic Preservation Program

Mr. Henry M. Sakuda, Administrator
Division of Aquatic Resources

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

SUBJECT: Well Construction and Pump Installation Permit Applications

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<td>Kalihikai-Fischer</td>
<td>1326-02</td>
<td>Well and Pump</td>
</tr>
</tbody>
</table>

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

ES:ss
Enc.

Response:

( ) We have no objections
( ) Not subject to our regulatory authority and permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: __________________________ Phone: __________________________
Signed: __________________________ Date: __________________________
Mr. Murl T. Nielsen  
Department of Water  
County of Kauai  
4398 Pualoke Street  
Lihue, Hawaii 96766

Dear Mr. Nielsen:

Well Construction and Pump Installation Permit Applications

Please review the following permit applications pursuant to your area of concern and submit your comments to us by JAN 13 1995.

<table>
<thead>
<tr>
<th>Island</th>
<th>Well Name</th>
<th>Well No.</th>
<th>Application Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oahu</td>
<td>Bayview G.C. Wells</td>
<td>2447-02, 03</td>
<td>Well Construction</td>
</tr>
<tr>
<td>Oahu</td>
<td>Kunia II Well No. 4</td>
<td>2402-05</td>
<td>Well Construction</td>
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Should you have any questions, please contact the Commission on Water Resource Management staff at 587-0225.

Sincerely,

[Signature]

Enc.

Response:

( ) We have no objections
( ) Not subject to our regulatory authority and permit
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Contact Person: __________________________ Phone: ______________
Signed: __________________________ Date: ______________

ES:ss

[Signature]

RAE M. LOUI
Deputy Director
Gave to Kathy to deposit 12/27/94.
APPLICATION FOR PERMIT

Well Construction □  □ Pump Installation □

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 96820. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Director of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0525.

1. APPLICANT: (may be a, b, or c, but all must be filled in)
   (a) WELL OWNER
      <redacted>
      Address: <redacted>
      Firm/Name: <redacted>  
      Contact Person: <redacted>
      Address: <redacted>

   (b) LANDOWNER
      1326 02
      Firm/Name: GARY FISCHER
      Contact Person: Glenda Fischcr
      Address: 3110 ALOHA ST, HONOLULU, HI 96817

   (c) CONTRACTOR
      Firm/Name: To be determined
      Contractor's C-57 License No.: <redacted>
      Address: WAPAI, HI 96774

2. WELL LOCATION/NAME: KALIHI WAI  
   Address: ANINI BEACH RD
   Island: KAUAI
   (Attach a USGS map, scale 1"=2000, and a property tax map showing well location referenced to established property boundaries.)

3. (a) PROPOSED WORK:
      ◼ Drill New Well  ◼ * Alter Location
      ◼ Modify Existing Well  ◼ * Abandon/Seal
      ◼ Install New Pump  ◼ * Deepen
      ◼ Replace Pump  ◼ Modify Pump
      * Be sure to complete and submit well abandonment report upon completion of work.

   (b) WELL TYPE:
      ◼ Dug  ◼ Bored  ◼ Drilled  ◼ Drilled Rod  ◼ Radial
      Is this well a part of a battery of wells?  ◼ Yes  ◼ No
      (Briefly describe and fill in the diagram on the back of this form.)

4. PROPOSED PUMP INFORMATION:
   Rated Pump Capacity: 10 gallons per minute
   Motor: ♦ Diesel
   Gas
   Electric, rated horsepower of ♦

5. PROPOSED USE:
   ♦ Municipal (including hotels, stores, etc.)
   ♦ Military
   ♦ Domestic (individual, noncommercial water sys.)
   ♦ Industrial
   ♦ Irrigation (crop)
   ♦ Other (explain)
   ♦ State Land Use District:
   ♦ Urban
   ♦ Agriculture
   ♦ Rural
   ♦ Conservation
   ♦ County Zoning (describe)

   (If more space is needed, continue below under remarks, explanations.)

6. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   ♦ 300  gallons per day

   (b) METHOD OF FLOW MEASUREMENT:
   ♦ Flow-meter
   ♦ Open-pipe
   ♦ Office Plate
   ♦ Weir

7. PENDING ACTIONS:
   ♦ CDUA
   ♦ SMA
   ♦ EIS
   ♦ EA
   ♦ NONE
   ♦ Other(explain)

8. REMARKS, EXPLANATIONS:

   (If more space is needed, continue on back)

NOTE: Signing below indicates that the applicant understands that, if the permit requested is granted by the Commission on Water Resource Management, the proposed work is to be complete within two (2) years of the approval date. In addition, the contractor shall submit to the Commission a well completion report, well abandonment report, or both, within 30 days after completion date of the permitted work. The applicant also understands that monthly water use data shall be submitted to the Commission. The applicant further understands that approval of this permit shall not constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity.
9. PROPOSED WELL SECTION

Elevation at top of casing 10 ft., msl.

Ground Elevation: 8 ft., msl*

Cement Grout: 40 ft.

Rock Packing 40 ft.

Solid Casing:
- Material: PVC
- Length: 60 ft.
- Diameter: 4" in.
- Wall thickness: 1/4" in.

Hole Diameter: 8 in.

Total Depth 80 ft.

Casing: [Perforated] [Screen]
- Material: PVC
- Length: 26 ft.
- Diameter: 4" in.
- Wall thickness: 1/4" in.
- Openings: 2" sq. in./L.F.

Open Hole:
- Length: 11/2 ft.
- Diameter: 8 in.

*Approximate elevation at time of filing application. Ground elevation above mean sea level (msl) by a surveyor licensed by the State must be submitted at start of construction. Final elevations of well components shall be submitted in the well completion/well abandonment reports.