Additional Information Request for
Makaiwa Monitor Test Holes 1, 2, and 3 (Well Nos. 2006-16, 2007-02 and 2007-03)

On May 26, 2009, we received information for the subject wells from Tom Nance, of Tom Nance Water Resource Engineering, as requested in our March 16, 2009 letter to you. The subject wells were constructed between 1989 and 1990 for The Estate of James Campbell. Mr. Nance provided the following information in response to our request:

...Wells 1 and 3 are simply small (6") diameter open holes with 6" steel conductor pipes cemented in place and with locking caps. Well 2 has the same conductor pipe and locking cap but also has 4" PVC casing to about 200 feet (its total depth is 205 feet). Well 3 caved in above the water table shortly after its completion and was not cleared.

We are concerned about the condition of Well 3 (Well No. 2007-03); it is clearly not in a condition that allows it to be used for monitoring or any other purpose. Based on the description, we are concerned that the well casing or annular seal could be damaged so as to be ineffective for preventing contaminant migration within the well bore itself. Therefore, the well should be permanently sealed in accordance with the Hawaii Well Construction & Pump Installation Standards, as revised in 2004, unless it can be safely repaired and you present a plan that shows your intent to use the well for monitoring purposes in the future.

Although Well Nos. 2006-16 and 2007-02 appear to be in satisfactory condition (based on recent photographs provided by Tom Nance), we are concerned that they are no longer being used for their original purpose. For this reason, these wells should also be permanently sealed, unless you can present evidence that shows that they have recently been used for monitoring or that you intend to resume monitoring at these well locations.
Please respond within 60 days of the date of this letter. Your response should include either: (1) an application for a well abandonment permit for all three wells and an estimated scheduled for this work; or (2) evidence showing that you are still collecting water level and/or water quality data from Well Nos. 2007-02 and -03, and that you intend to repair Well No. 2006-16 and also use it for monitoring. Failure to respond within 60 days may result in enforcement action and could be subject to fines of up to $5,000 per day, as authorized by the State Water Code (HRS Chapter 174C).

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

Sincerely,

[Signature]

KEN C. KAWAHARA, P.E.
Deputy Director

DEM:ss

c:  Tom Nance
Nance suggested sending letter to Clinton Churchill since he's still around & was involved w/the project.
March 16, 2009

Mr. Clinton Churchill
James Campbell Company, LLC
James Campbell Building, Suite 200
1001 Kamokila Boulevard
Kapolei, HI 96700-2014

Dear Mr. Churchill:

Request for Information
Makaiwa Monitor Test Holes 2 and 3 (Well Nos. 2007-02 and -03)

We recently found while reviewing our records for the subject wells, located within TMK (1) 9-2-003:002, that we never received a well completion report for either well. We issued the well construction permit for Well No. 2007-02 on February 15, 1990 and for Well No. 2007-03 on March 26, 1990; both permits were issued to The Estate of James Campbell.

During a recent conversation between our staff and Tom Nance, the consultant who assisted with the project, we learned that the wells were constructed and monitored for a period of time. We are writing, therefore, to request copies of any information you may have for these wells so that we can update our hard copy and database records.

Thank you for your assistance. Please call Denise Mills of the Commission staff at 587-0251 if you have any questions.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

c: Tom Nance
## Well Background Check

<table>
<thead>
<tr>
<th>Approved Well No.</th>
<th>Well Name</th>
<th>Applicant</th>
<th>Driller</th>
<th>Pump Inst.</th>
<th>Type</th>
<th>Issued</th>
<th>Signed</th>
<th>WCR1 Accept</th>
<th>WCR2 Accept</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/7/1991</td>
<td>1905-08</td>
<td>Kapolei Irr 1</td>
<td>Estate of James Campbell [01]</td>
<td>WELL</td>
<td>1/7/1991</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Roy, it looks like T.H. 3 (2007-03) omission from the database was probably an oversight. T.H. 1 & 2, permitted around the same time, were entered. I have not put this one in the database. Denise 3/2/09.
TO: The Estate of James Campbell  
828 Fort Street Mall, Suite 500  
Honolulu, Hawaii 96813

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 a ground water monitor well (Well No. 2007-03) within Tax Map Key: 9-2-03:2 is approved, subject to the following conditions:

1. The Division of Water and Land Development (DOWALD), Geology-Hydrology Section, shall be notified at 548-7543, before any work by this permit commences.

2. The well shall be use for monitoring and testing only.

3. The following shall be submitted to DOWALD, P.O. Box 373, Honolulu, Hawaii 96809 within 30 days after completion of the well:
   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 record, including time, pumping rate, drawdown, chloride content, and water quality data.
Well Nos. 2007-03

Periodic reports of monitoring and testing results.

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

5. This permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work shall be completed within two years of the date of issuance.

6. Upon completion of monitoring operations, the applicant shall obtain a well construction permit to seal the well with cement grout in a manner approved by the Commission.

MAR 26 1990

Date of Issuance

Enc. (Well Completion Report form)
cc: USGS
Department of Health
Drinking Water Branch
Ground Water Protection Program
Honolulu Board of Water Supply
P.R. Drilling Company, Inc.
Tom Nance Water Resources Engineering

WILLIAM W. PATY, Chairperson
Commission on Water Resource Management
APPLICATION FOR

WELL CONSTRUCTION PERMIT
PUMP INSTALLATION PERMIT

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 372, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 548-7513, Hydrology/Geology Section for assistance.

1. WELL LOCATION

Island: Oahu
Tax Map Key: 9-2-03:2
Address: East of Ko Olina Resort Main Entrance Along Farrington Highway Test Hole

(Attach a USGS map (scale 1" = 2000') and property tax map showing well location referenced to established property boundaries.)

2. WELL OWNER

Firm Name: Campbell Estate
Contact Person: Sam Keala
Address: 828 Fort Street, Suite 500
Honolulu, Hawaii 96813
Phone: 536-1961

3. PROPOSED CONTRACTOR FOR:

- Well Drilling
- Pump Installation

Name: PR Drilling Company, Inc.
Address: 235 Kellog Street
Wahiawa, Oahu, Hawaii 96786
Phone: 622-2631
Contractor's License No.: C-9627

4. PROPOSED WORK

- Drill New Well
- Alter
- Install New Pump
- Deepen
- Seal
- Replace Pump
- Redrill
- Abandon
- Modify Pump

(Briefly describe the proposed work and fill in the diagram on the back of this form.)

5. PROPOSED USE

- Municipal (including hotels, stores, etc.)
- Military
- Domestic (individual, noncommercial water systems)
- Industrial
- Irrigation (specify)
- Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL

None ______ gallons per day

7. PROPOSED PUMP INFORMATION

None

- Pump Type: Vertical Turbine
- Submersible
- Centrifugal
- Gas
- Electric:

Rated Pump Capacity ______ gallons per minute (gpm)

Well Owner (print) CAMPBELL ESTATE
Signature [Signature]
Date 3/7/90

Landowner (print) CAMPBELL ESTATE
Signature [Signature]
Date 3/9/90

For Official Use Only:

Field Checked By ______
Latitude ______
Hydrologic Unit ______
Date ______
Longitude ______
State Well No. 2007-03
Briefly describe the proposed work:

Test hole will be drilled solely for observation purposes. To clean the hole and obtain a representative water sample, a 60+ GPM submersible pump will be installed and run several hours.

PROPOSED SECTION OF WELL

Elevation at top of casing 111 ft., msl.

Ground Elev. 110 ft., msl*

Cement Grout 20 ft.

Solid Casing:
  Material Steel (ASTM A-53)
  Length 20 ft.
  Diameter 6 in.
  Wall thickness 0.3125 in.

Hole Dia. 4 in.

Casing: / Perforated / Screen
  Material None
  Length
  Diameter
  Wall thickness
  Openings sq. in./L.F.

Total Depth 155 ft.

Rock Packing None ft.

Open Hole:
  Length 135
  Diameter 4 (min.) in.

*Approximate elevation at time of filing application. Final elevation (msl) by a surveyor licensed by the State must be submitted at start of construction.
THE ESTATE OF JAMES CAMPBELL
HONOLULU, HAWAII

THE ESTATE OF JAMES CAMPBELL
JAMES CAMPBELL BUILDING • SUITE 500
828 FORT STREET MALL • HONOLULU, HAWAII 96813-4380

TO THE ORDER OF

Department of Land & Natural
Resources
P O Box 373
Honolulu,
HI 96809

WELL CONSTRUCTION PERMIT: WELL NO. 2007-03

Please detach before depositing check

DATE: MAR 14 90
CHECK NO: 49625
AMOUNT: $25.00

TO THE ORDER OF

Department of Land & Natural
Resources
P O Box 373
Honolulu,
HI 96809

WELL CONSTRUCTION PERMIT: WELL NO. 2007-03

VOID AFTER 90 DAYS

#049625  1213010280000114181