**COMMISSION ON WATER RESOURCE MANAGEMENT**

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Not much of a plan by them.
Mr. Timothy Johns, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Johns:

Kahuku Air Base Well - State Well No. 4158-12
Water Use Permit No. 524 - Water Shortage Plan

This letter sets forth the water shortage plan for the above-mentioned well as required under the terms and conditions of Water Use Permit No. 524.

The Estate of James Campbell (the "Estate") will cooperate with the Commission on Water Resource Management ("Commission") when there are potential or declared water shortage situations in the Koolauloa Ground-Water Management Area. The Estate’s cooperation will be commensurate with requests made to other water users affected by a Commission declared water shortage in the area.

This well serves multiple users as defined in the permit. We recommend to the Commission that prior to declaration of a water shortage there be a notice of potential or pending action. This will allow the Estate to notify all users that a water shortage declaration may soon be issued by the Commission. This, in turn, will allow the various users some lead time to prepare for potential cutbacks in water usage.

If you have any questions, please call Bert Hatton at 2.

Very truly yours,

Donna B. Goth
Director, Hawaii Properties
SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery
3. ☐ Article Addressed to
4a. ☐ Article Number
4b. ☐ Service Type
   - ☐ Registered
   - ☐ Certified
   - ☐ Express Mail
   - ☐ Insured
   - ☐ Return Receipt for Merchandise
   - ☐ COD
7. Date of Delivery
8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

PS Form 3811, December 1994

Domestic Return Receipt

Form 3811, December 1994 102595-98-B-0229 Domestic Return Receipt
COMMISSION ON WATER RESOURCE MANAGEMENT

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*PLEASE:*

- See Me
- Review & Comment
- Take Action
- Type Draft
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- File
- Xerox copies

*Please, are any other standard conditions missing?*

*Add special conditions*

For PIPs, can input the dates of WEZ acceptance into merge form? Yes, some points.

Roy: Lenore checked for me & I added.
**Receipt for Certified Mail**

No Insurance Coverage Provided

Do not use for International Mail

(See Reverse)

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Postmark or Date

PS Form 3803, March 1993
Ms. Donna B. Goth  
Estate of James Campbell  

Dear Ms. Goth:

Approval of Water Use Permit for Well No. 4158-12  
Koolauloa Ground-Water Management Area, Oahu

This letter transmits your water use permit for Kahuku Air Base Wells (Well No.4158-12) for use of 0.200 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on March 15, 2000. As part of the Commission's approval, the following special conditions were added and are part of your permit under Standard Permit Condition 20:

**Special Conditions**

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. This interim water use permit shall cease to become interim and shall be subject to Haw. Rev. Stat. §174C-55 upon administrative review of the quantity within 5 years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form

Please be sure to read the conditions of your approved permit.
We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Koolauloa Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

If you have any questions, please call Ryan Imata of the Commission staff at [phone number].

Aloha,

TIMOTHY E. JOHNS
Chairperson

Attachments
Pursuant to Hawaii’s State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial use means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its March 15, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. Carry out such other necessary and proper exercise of the State's and the Commission's power under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

12. This permit shall be subject to the Commission's periodic review of the Koolauloa Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Koolauloa Aquifer System, or relevant modified aquifer(s), is reduced.

13. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.
14. The use(s) authorized by law and by this permit do not constitute ownership rights.

15. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee's water use.

16. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

17. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Koolauoa Ground-Water Management Area.

18. The water use permit granted shall be an interim water use permit, pursuant to HAR § 13-167-3(6). The final determination of the water use quantity shall be made within five years of the filing of the application.

19. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

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

21. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

Attachment
THE ESTATE OF JAMES CAMPBELL

December 28, 1999

HAND DELIVERY

Mr. Ryan Imata
Commission on Water Resource Management

Dear Ryan:

Application Fee - Water Use Application for
Kahuku Air Base Wells (Well Nos. 4158-12 & 13)

Enclosed please find our check number 124085 in the amount of $25 for filing fee for the
above referenced matter. This new check replaces our previous check dated March 22, 1999
which expired.

Very truly yours,

Jo Ann C. Kaneshiro
Secretary

Enclosure

jck:01045301\K10011
### Department of Land and Natural Resources

- **UAC or Attached Worksheet**
- **Date:** 1/10/99

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**Remarks:**

- **LINE (1)** Well No. 4158-12 & 13
- **LINE (2)**
- **LINE (3)**
- **LINE (4)**

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**The Estate of James Campbell**

- **Date:** Dec 28 1999
- **Check No.:** 190408
- **Amount:** $25.00

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*Commission on Water Resource Management*

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*VOID AFTER 90 DAYS*
STATE OF HAWAI'I
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

AGENDA
FOR THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: December 14, 1999
TIME: 9:00 am
PLACE: DLNR Board Room
Kalanikua Building

1. Minutes of the November 17, 1999 meeting and September 15, 1999
2. Old Business/Announcements
6. The Estate of James Campbell, APPLICATION FOR A WATER USE PERMIT, Kahuku Air Base Wells, Well Nos. 4158-12 & 13, TMK 5-6-05:07, Existing/Future Agricultural Use for 0.200 mgd, Koolauloa Ground Water Management Area, Oahu
7. Honolulu Board of Water Supply, APPLICATION FOR A WATER USE PERMIT, Kapalama #2 & #1 Wells, WUPA No. 408, Well Nos. 2052-13 & 14, TMK 1-6-22:07, Future Municipal Use for 1.292 mgd, Kalihi Ground Water Management Area, Oahu
8. Waialua Sugar Company, REVOCATION OF WATER USE PERMIT, Pump 4, Well Nos. 3605-02 to 04, 06 to 08, 11 to 13 (WUP No. 55), Kawaiola Ground Water Management Area, Oahu
9. Other Business

Materials related to items on this agenda are available for review at our office at 1151 Punchbowl Street, Room 227, and also will be available at the meeting.

Any person may testify or present information on any meeting agenda item, unless the item involves a proceeding in an existing contested case. In addition, if you have a legal interest that may be adversely affected by the proposed action, you may have a right to an administrative contested case hearing. You must make the request for such a hearing either orally or in writing at the public hearing or meeting for which this notice is given. Hawaii Administrative Rules (H.A.R.) Section 13-167-52(a).

If you request a contested case hearing, you will have the opportunity to present to the Commission oral or written evidence or testimony or both to establish your standing. You may present your testimony or evidence on standing at the meeting or public hearing described above or, alternatively, at a hearing set by the Commission at a later date.

If you request a contested case hearing either orally or in writing, you must also complete and file (or mail and postmark) a written petition for a contested case with the Commission within ten days after the date of the public hearing or meeting noticed here. Petition forms are available from the Commission. H.A.R. Section 13-167-52(e).

If you do not make such a request or fail to file a timely written petition with the Commission, the consequence is that you will be precluded from later obtaining a contested case hearing and seeking judicial review of any adverse decision. H.A.R. Chapter 13-167.

Disabled individuals planning to attend the public hearing or meeting are asked to contact the Commission at the above address or phone [number], at least three days in advance of the public hearing or meeting to indicate if they have special needs which require accommodation.
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

December 14, 1999
Honolulu, Oahu

The Estate of James Campbell
APPLICATION FOR A WATER USE PERMIT
Kahuku Air Base Wells, Well Nos. 4158-12 & 13, TMK 5-6-05:07
Existing/Future Agricultural Use for 0.200 mgd
Koolauloa Ground Water Management Area, Oahu

APPLICANT:
The Estate of James Campbell

LANDOWNER:

LOCATION MAP:
See Exhibit 1

BACKGROUND:
On September 13, 1999, a completed water use permit application was received from The Estate of James Campbell (Campbell Estate) by the Commission on Water Resource Management (Commission).

ANALYSIS/ISSUES:
This application requires Commission action to satisfy the ninety (90) day requirement for action. However, because the Commission meeting in November didn't incorporate regular submittals, this application was deferred.

The application requests 200,000 gpd. Although information on end uses in Table 1 of the application was submitted along with the application, there was some discrepancy with respect to the definition of existing uses versus new uses found during staff review. A revised version of Table 1 was submitted on September 28, 1999, but still requires clarification. Staff will continue working with Campbell Estate to clarify the areas with respect to existing and new uses and total quantity associated with these uses.

RECOMMENDATION:
Staff recommends that the Commission defer this application to the next Commission meeting.

Respectfully submitted,

LINNEL T. NISHIOKA
Deputy Director

Exhibit 1: (Location map)
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Mr. Timothy E. Johns, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Johns:

Water Use Permit Application for the
Estate of James Campbell, Well Nos. 4158-12 & 4158-13

This is in response to your memorandum dated September 22, 1999. We have reviewed the subject application and provide the comments below for your consideration.

- We have no objections to the proposed water use permit application.

- The proposed water uses identified on the attached table are generally consistent with the corresponding Agriculture land use designations shown on the existing Koolauloa Development Plan Land Use Map. The proposed water use permit application is also consistent with the Final Draft of the Ko`olau Loa Sustainable Communities Plan which supports, retains and protects agriculture/aquaculture in the Kahuku area.

- With regard to the 11 residential water uses listed on the attached table, these are consistent with the Agriculture land use for the property based on our understanding that this water use will serve existing agricultural residences. Consultation with The Estate of James Campbell revealed that this water use will support existing farmers who derive their income from agricultural activities on the properties. Also, according to information provided in the application, the water provided is a continuation of existing uses of water.
The Board of Water Supply (BWS) had no objections to the application which seeks an increase of permitted use from the present 103,000 gallons per day (gpd) to 200,000 gpd. BWS pointed out that the Department of Health requires the water system to meet water quality standards for drinking water since there are more than 10 residential services.

Should you have any questions, please call Matthew Higashida of our staff at [redacted].

Sincerely,

[Signature]

JAN NAOE SULLIVAN
Director of Planning and Permitting

JNS:js (560)

Attachment

cc: Mayor Jeremy Harris
    Board of Water Supply
## Water Use Permit Application for The Estate of James Campbell, Well Nos. 4158-12 & 4158-13, Koolaupoa Ground Water Management Area, Oahu, Hawaii

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<td>5-6-002: 009 and 5-6-003: 026</td>
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<td>Existing</td>
<td>5-6-005: 007 &amp; 009</td>
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<td>Ralph Fukushima (by Kenui)</td>
<td>Pasture</td>
<td>Existing</td>
<td>5-6-002: 001, 019 and 5-7-001: 021</td>
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WATER USE PERMIT APPLICATION FOR THE
THE ESTATE OF JAMES CAMPBELL, WELL NOS. 4158-12 & 4158-13,
KOOLAULOA GROUND WATER MANAGEMENT AREA, OAHU, HAWAI'I

<table>
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<tr>
<th>Name</th>
<th>Usage</th>
<th>Type</th>
<th>Code</th>
<th>Category</th>
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<td>Rye Huang</td>
<td>Pasture</td>
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<td>5-6-002: 009</td>
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<td>Orin Jackson</td>
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<td>INIT.</td>
<td>TO:</td>
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<td>FOR:</td>
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<td>BAUER, G.</td>
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<td>LUM, A.</td>
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<td>Approval</td>
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<td>CHING, F.</td>
<td></td>
<td>NAKAMA, L.</td>
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<td>Signature</td>
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<tr>
<td>DANBARA, S.</td>
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<td>NAKANO, D.</td>
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<td>Information</td>
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<td>FUJII, N.</td>
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<td>NISHIOKA, L.</td>
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<td>HARDY, R.</td>
<td>✔</td>
<td>OHYE, M.</td>
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<td>HIGA, D.</td>
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<td>SAKODA, E.</td>
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<td>HIRANO, E.</td>
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<td>SUBIA, S.</td>
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<td>ICE, C.</td>
<td></td>
<td>SWANSON, S.</td>
<td></td>
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<td>IMATA, R.</td>
<td></td>
<td>UYENO, D.</td>
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<td>JINNAI, R.</td>
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<td>YODA, K.</td>
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<td>KUNIMURA, I.</td>
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TO: Ms. Esther Ueda, Executive Officer  
Land Use Commission  

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

SUBJECT: WATER USE PERMIT APPLICATION  
Koolauloa Ground Water Management Area, Oahu  

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

We would appreciate your review of the proposed use that is described in the attached application (i.e. line item 6 or Table 1). Specifically, we request that you inform us of the current state land use designation for the TMK parcel, or portion thereof, for the proposed use area(s) and, secondly, whether the current state land use designation is appropriate for the proposed project.

We have attached a TMK map(s) that covers the proposed use area(s). Where water is proposed for use on only a portion of a TMK parcel, or on parcels with multiple zoning, the proposed use area(s) has been clearly delineated on the attached map. Please respond by returning this cover memo along with your review comments by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at [redacted].

Response:

( ) The proposed water use(s) is consistent with the current zoning designation(s)
( ) Comments attached

Contact Person: Esther Ueda, Executive Director  

Signed: [signature]  
Date: October 13, 1999
October 13, 1999

Mr. Timothy E. Johns, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources

Dear Mr. Johns:

Subject: Water Use Permit Application, Koolauloa Groundwater Management Area, Oahu

We have reviewed the subject application forwarded by your memorandum dated September 22, 1999, and have the following comments:

1. The proposed use areas, identified as TMK 5-6-02: 1, 2, 6-8, 19; 5-6-03: 1, 6, 10, 26, 32, 38; 5-6-04: 2, 3, 6, 7, 9, 11, 20, 24, 25, 27, 36-39, 42; 5-6-05: 2, 7, 9; and 5-7-01: 21, are designated within the State Land Use Agricultural District. TMK 5-6-02: 9 is designated within both the State Land Use Agricultural and Conservation Districts.

2. With respect to your request as to whether the current designation is appropriate for the proposed project, please be advised that pursuant to Section 205-2(d), Hawaii Revised Statutes (HRS), permitted activities or uses within the State Land Use Agricultural District include aquaculture, foraging, farm dwellings, and employee housing. To the extent that the proposed uses are consistent with these statutorily permitted uses, they are appropriate uses within the Agricultural District.

Pursuant to Chapter 183C, HRS, permitted activities or uses within the State Land Use Conservation District are determined by the Department of Land and Natural Resources.
Resources (DLNR). Therefore, DLNR would be the appropriate agency in which to determine the appropriateness of the proposed uses in the Conservation District.

3. Based on the above tax map key numbers, it appears that some of the proposed use areas were the subject of LUC Docket No. BR94-712/Office of State Planning, which proposed the reclassification of approximately 181 acres of land from the Agricultural District to the Conservation District for protection of wetland habitat. By Order Granting Petitioner’s Motion to Withdraw Petition dated November 19, 1996, Petitioner Office of State Planning voluntarily withdrew the Petition filed in the above docket.

We have no further comments to offer at this time. We appreciate the opportunity to comment on the subject application.

As requested, we are returning the cover memo for the subject application.

Should you have any questions, please feel free to call me or Bert Saruwatari of our office at [redacted].

Sincerely,

ESTHER UEDA
Executive Officer

EU:aa

Enclosure
Mr. Ryan Imata  
Commission on Water Resource Management  
State of Hawaii  
Department of Land and Natural Resources  

Dear Ryan:

Amendment to Application for Water Use Permit  
as submitted on June 30, 1999 - Kahuku Air Base Water System

Per your request, we have amended the Tax Map Key (TMK) schedule to include additional information, projected uses over a four-year period, and deletion of certain very small TMKs. We have also tried to conform the “Existing” and “New” use column to the original field inspection performed by the Commission staff. We have footnoted the “New” uses where appropriate. These “New” uses may have actually been existing at the time of designation but were inadvertently missed inasmuch as they were included in the Commission staff field report at that time by reference to named operations. You will note reference in the footnotes on the attached table to Pacific Sea Farms and Amorient RCA Building which are mentioned in the original staff field report.

If you have any questions, please contact Bert Hatton at [---].

Very truly yours,

Donna B. Goth  
Director, Hawaii Properties

Enclosures

jck:01045301\K10010

Website: www.kapolei.com
Table 1. Multiple TMKs To Use Requested Water

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Use Type</th>
<th>Designation</th>
<th>TMK</th>
<th>Zoning Code</th>
<th>Acres</th>
<th>GPD/Unit (Average)</th>
<th>4-Year Projected Demand (from date of approval)</th>
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<tbody>
<tr>
<td>Anamizu, Douglas</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>5-6-03-26 (por.)</td>
<td>Ag</td>
<td>5 ac.</td>
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<td>3,300 3,300 3,300 3,300 3,300</td>
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<td>Anamizu, Douglas (Kam Hwy)</td>
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<td>5-6-3-01 (por.)</td>
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<td>Mock-Chew, Bernard</td>
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<td>Ag</td>
<td>1 unit</td>
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<td>9.75 ac.</td>
<td>23,766</td>
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<td>Residential site</td>
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<td>5-6-02-09 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>663</td>
<td>663 663 663 663 663</td>
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<td>Kahuku Shrimp Company</td>
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<td>663 663 663 663 663</td>
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<td>5-6-03-32</td>
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<td>Ag</td>
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<td>193</td>
<td>663 663 663 663 663</td>
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<tr>
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<td>5-6-03-10 (por.)</td>
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<td>45.81 ac.</td>
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<td>12.422 ac.</td>
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1Formerly Pacific Sea Farms
2Formerly Amorient RCA Building
3Acres or units noted as appropriate
4Pastures are not irrigated, water is for cattle/horse troughs
5Although the system services many agricultural activities that do not require potable water, all water is treated according to DOH standards because of domestic consumers
<table>
<thead>
<tr>
<th>Project Name</th>
<th>Existing or New Use (at time of Designation)</th>
<th>Potential or NonPotable</th>
<th>TMK</th>
<th>Current County Zoning Code</th>
<th>Units or Net Acres</th>
<th>GPD/Unit or GPD/Acre (Average Usage 2/1/98-7/29/99)</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Total GPD (Annual Average)</th>
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<td>238</td>
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<td>26</td>
<td>26</td>
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<td>628</td>
<td>628</td>
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<td>1 unit</td>
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<td>26</td>
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<td>Tilley, Gordon</td>
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<td>20</td>
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<td>Ah Quin, John</td>
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<td>Ah Quin, Sam</td>
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<td>Chew, Jerry</td>
<td>Residential</td>
<td>Potable</td>
<td>5-6-03-26 (por.)</td>
<td>Ag</td>
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<td>357</td>
<td>357</td>
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<td>Frias, Lei Hulu</td>
<td>Residential</td>
<td>Potable</td>
<td>5-6-03-28 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>1,009</td>
<td>1,009</td>
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<td>Huddy, Herbert</td>
<td>Residential</td>
<td>Potable</td>
<td>5-6-03-27 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>147</td>
<td>147</td>
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<td>Jackson, Orin</td>
<td>Residential</td>
<td>Potable</td>
<td>5-6-04-01 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>2,076</td>
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<td>Kaleo, John</td>
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<td>Potable</td>
<td>5-6-3-34</td>
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<td>-</td>
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<td>5-6-03-01 (por.)</td>
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<td>1 unit</td>
<td>934</td>
<td>934</td>
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<td>934</td>
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</table>

Unaccounted for water

TOTAL GPD

12,540 12,540 12,540 12,540 12,540

147,701 164,423 179,423 192,923 200,000 200,000

1 Formerly Pacific Sea Farms
2 Formerly Amorient RCA Building
3 Acres or units noted as appropriate
4 Pastures are not irrigated, water is for cattle/horse troughs
5 Although the system services many agricultural activities that do not require potable water, all water is treated according to DOH standards because of domestic consumers

Table 1. Multiple TMKs To Use Requested Water

4-Year Projected Demand (from date of approval)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Total GPD (Annual Average)</th>
</tr>
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<tr>
<td></td>
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<td>12,540</td>
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<td></td>
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<td>147,701</td>
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</table>

[Table with footnotes and annotations]
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 with regard to the programs, plans, and objectives specific to your division. Specifically, Item 9 on the application has been added per your request concerning water lease/permits administered by your division. Please respond by returning this cover memo form by October 18, 1999.

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 Ryan Imata of the Commission staff at [redacted]

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. [redacted].

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

[ ] No objections

[ ] Other comments:

Contact Person: Gary Martin Phone: [redacted]

Signed: [redacted] Date: SEP 27 1999
The Estate of James Campbell

June 30, 1999

Mr. Timothy Johns, Chair
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. John:

Subject: Application by Campbell Estate To Amend Water Use Permit (WUP) 298 to Increase The Allocation for the Kahuku Airbase System

The Estate of James Campbell is seeking to increase the allocation for its Kahuku Airbase Water System from 103,000 GPD to 200,000 GPD (see attached WUP Application). The two wells currently serving the system, Well Nos. 4158-12, 13, can provide the increased withdrawal without being modified.

The additional water is needed to accommodate uses in the Kahuku area for existing and future agricultural tenants. A little less than half of the 97,000 GPD being requested will serve existing uses. During the past year, the Kahuku Airbase System’s existing use has increased 50 percent. The attached graph shows the rise in the 12-month moving average pumpage during 1998 from 100,000 GPD to 150,000 GPD. The 50,000 GPD over existing use, that is being requested, will be used for farming on existing agricultural land owned by the Estate. We have been approached by two potential aquaculture tenants who want to begin farming as soon as water is made available.

If you have any questions, please call George Hiu at __________

Very truly yours,

[Signature]

Dörra B. Goth
Director, Hawaii Properties

Attachments

jlr:01034600/K10277
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<th>Quantity Pumped</th>
<th>Days Between KAB</th>
<th>GPD</th>
<th>Avg KAB</th>
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<td>Sep-98</td>
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<td>Nov-98</td>
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<td>Jan-99</td>
<td>4,550,000</td>
<td>34</td>
<td>133,824</td>
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State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR WATER USE PERMIT

PERMITTEE INFORMATION

1. (a) APPLICANT
   Firm/Name: The Estate of James Campbell
   Firm/Name: The Estate of James Campbell
   Contact Person: Donna B. Goth
   Contact Person: Donna B. Goth

2. SOURCE INFORMATION

   2. WATER MANAGEMENT AREA: Windward, Oahu, Koolaualoa
   ISLAND: Oahu

3. (a) EXISTING WELL/STREAM DIVERSION NAME AND STATE NUMBER: Kahuku Air Base Well #4158-12 & 13
   (b) PROPOSED (NEW) WELL/STREAM DIVERSION NAME: N/A
   (c) LOCATION: Kahuku, Oahu, Hawaii
      (Attach and show source location on a USGS map, scale 1"=2000', and a property tax map)

4. THE LANDOWNER CERTIFIES THAT THE SUBJECT PROPERTY, OR A PORTION THEREOF, WAS
   OR WAS NOT ___ A STATE OF HAWAII LAND PATENT GRANTED AFTER 1960. (Check with your title search
   company on the Land Division, Department of Land and Natural Resources at 587-0414 for help)

5. SOURCE TYPE: (check one):  [ ] Stream  [ ] Groundwater  [ ] Other

6. METHOD OF TAKING WATER: (check one):  [ ] Artesian  [ ] Well & Pump  [ ] Diverted Surface  [ ] Other

7. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) PUC-Regulated Private System  [ ] Intended dedication to Dept. of Water Supply  [ ] Non-PUC-Regulated Private System
   (b) Tax Map Key: Please complete Table 1 on back of application and shade applicable portion of property tax map.

8. QUANTITY OF WATER REQUESTED:  200,000 gallons per day (averaged over 1 year)

9. METHOD OF MEASUREMENT:  [ ] Flowmeter  [ ] Open-pipe  [ ] Well  [ ] Orifice  [ ] Other (explain)

10. QUALITY OF WATER REQUESTED:  [ ] Fresh  [ ] Brackish  [ ] Salt  [ ] Potable  [ ] Non-Potable

11. PROPOSED USE:  [ ] Municipal (including hotels, stores, etc.)  [ ] Industrial  [ ] Military  [ ] Other

12. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:  24 hours per day

13. APPLICANT MUST ESTABLISH THAT THE PROPOSED USE OF WATER:
   (a) Can be accommodated with the available water source.
   (b) Is a reasonable-beneficial use.
   (c) Will not interfere with any existing legal use.
   (d) Is consistent with the public interest.
   (e) Is consistent with state and county general plans and land use designations.
   (f) Is consistent with county land use plans and general policies.

   * Section 13-171-2, Hawaii Revised Statutes – 
   "Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a
   purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and
   the public interest.

14. REMARKS, EXPLANATIONS: (see next page)

   NOTE: Signing below indicates that the signatories understand and swear that: 1) the information provided on this application is accurate and true to
   the best of their knowledge; 2) Item 14 is the responsibility of the applicant prior to Commission approval; 3) If necessary, further information may be
   required before the application is considered complete; 4) if a water use permit is granted by the Commission, this permit is subject to prior
   existing permitted uses, charges to sustainable yields and between few standards, reserved uses as defined by the Commission, and Hawaiian Homes
   Lands future uses; and 5) upon permit approval, a water shortage plan must be submitted by the applicant should the Commission require one.

   Applicant (print) The Estate of James Campbell, Landowner (print) The Estate of James Campbell

   Signature ___________________________ Signature ___________________________

   Date ___________________________ Date ___________________________

   http://www.hawaii.gov/dlnr/dwrm/acrobat/Forms/wupa.pdf 06/30/1999
Section 13-171-2, Hawaii Revised Statutes –

"Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.

16. REMARKS, EXPLANATIONS (cont'd): In addition to the 11 homes, 5 aquaculture offices, and the 9 agriculture/pasture tenants, the water will be used for farming by both existing and new farmers.

---

### TABLE 1. MULTIPLE TMKS TO USE REQUESTED WATER

<table>
<thead>
<tr>
<th>PROJECT NAME &amp; PHASES</th>
<th>EXISTING USE or NEW USE</th>
<th>POTABLE or NONPOTABLE</th>
<th>TMK</th>
<th>CURRENT COUNTY ZONING CODE</th>
<th>UNITS of NET ACRES</th>
<th>GPD/UNIT or GPD/acre</th>
<th>4-YEAR PROJECTED DEMAND</th>
<th>TOTAL GPD</th>
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**TOTAL GPD**

DEPARTMENT OF PLANNING AND PERMITTING SIGNATURE ___________________________ DATE 6/18/99

Director of Planning and Permitting

Instructions for completing Table 1: Individual projects and phases must be listed separately and numbered sequentially on Table 1. Copy Table 1 and attach additional sheets if necessary. Please indicate individual projects and phases on TMK maps by clearly delineating project areas and indicating sequential number within delineated areas to coincide with Table 1. Please attach a separate sheet giving the address and a brief description of each project and phase listed above. In addition, if the proposed use is existing, please provide the WUP No. or indicate when the existing use was initiated. Also, the Department of Planning and Permitting must sign before application is acceptably complete.
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<thead>
<tr>
<th>Project Name</th>
<th>New Use</th>
<th>NonPotable</th>
<th>TMK</th>
<th>Zoning Code</th>
<th>Units or Acres</th>
<th>GPD/Unit or Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Total GPD (Annual Average)</th>
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Ms. Donna B. Goth  
The Estate of James Campbell

Dear Ms. Goth:

Water Use Permit Application  
Kahuku Air Base Well Nos. 4158-12 and 13

We have reviewed the above application that was submitted to the State Department of Land and Natural Resources (DLNR), Commission on Water Resource Management (COWRM). The proposed uses for the Tax Map Keys (TMK) in your application have been reviewed. We have the following comments:

1. Current zoning designation for TMKs: 5-6-2: 1, 2, 6-9, 19; 5-6-3: 1, 6, 26, 32, 38; 5-6-4: 2, 3, 6, 7, 9, 11, 13, 14, 18, 20, 24-27, 36-39, 42; 5-6-5: 2; and 5-6-6: 2 is AG-2 General Agricultural District.

[X] Proposed agricultural use is permitted under the current zoning under certain conditions:

a. Agricultural products processing (minor) is permitted as a principal use if conducted on a lot not used for crop production. Minor agricultural products processing includes activities on a zoning lot not used for crop production, which are not regulated as major agricultural products processing and which perform a variety of operations on crops after harvest to prepare them for market, or further processing and packaging at a distance from the agricultural area. Included activities are vegetable cleaning, honey processing, poi-making and other similar activities.
Ms. Donna B. Goth
Page 2
June 16, 1999

b. Agricultural products processing (minor) is permitted as a special accessory use when conducted on the same zoning lot on which the crop is cultivated.

c. Agricultural products processing (major) may be permitted if the following permit(s) is/are obtained:

1) Conditional Use Permit, Type 2
2) Plan Review Use

Major agricultural products processing includes activities involving a variety of operations on crops or livestock which may generate dust, odors, pollutants or visual impacts that could adversely affect adjacent properties. These uses include slaughterhouses, canneries and milk processing plants.

[X] Proposed aquaculture use is permitted as a principal use under the current zoning.

[X] Proposed residential use is not permitted under the current zoning, unless the family occupying the dwelling derives income from agricultural activity on the property.

2. Current zoning designations for TMKs: 5-6-3: 10 and 5-6-2: 9 is AG-2 General Agricultural District and P-1 Restricted Preservation District.

[X] Proposed agricultural use may be permitted under AG-2 zoning under certain conditions as stated in number 1 above.

[X] Agricultural use proposed within the P-1 zoning is governed by the State of Hawaii.

3. Current zoning designation for TMK: 5-6-6: 19 is AG-1 Restricted Agricultural District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.
Ms. Donna B. Goth  
Page 3  
June 16, 1999

4. Current zoning designations for TMK: 5-7-1: 21 are AG-1 Restricted Agricultural District and P-2 General Preservation District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.

[X] Proposed pasture use is not permitted under P-2 zoning.

5. [ ] Uses are within the Special Management Area.

[X] Uses are not within the Special Management Area.

Future water use permit applications should include location maps depicting the areas (TMKs) receiving the water. Properties may have more than one zoning designation or the TMK may not correspond to the location map.

The proposed project has been reviewed for the purpose of providing the above information and does not imply a recommendation of approval by this Department. Should you have any questions, please contact the Coastal Lands Branch at

Very truly yours,

For JAN NAOE SULLIVAN  
Director of Planning and Permitting

JNS:am

cc: State DLNR, Commission on Water Resource Management

posse doc no. 5141
STATE OF HAWAI'I
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, 222 Queen Street, 2nd Floor, Honolulu, HI 96813, Phone 548-3948 or 548-9488 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 4158-12
WELL NAME OR DESIGNATION: 339-A Kahuku Airbase
SOURCE OR STATION NAME (for a battery of wells):

A. WELL OPERATOR
Firm name: Campbell Estate
Contact person: Sam Keala

B. OWNER OF WELL SITE
Firm name: Campbell Estate
Contact person: Sam Keala

C. WELL LOCATION
Tax Map Key: 5-6-0577 Town, Place, District: Koolauloa; Kahuku
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as built" drawing, driller's log, and pump test results, and complete items below. For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

- Ground elevation (Mean sea level): 60 ft.
- Reference point (Used to measure depth to water): Elevation: 61.0 ft.
- Description: Concrete pad
- Depth to water (Below reference point): 61 ft.
- Maximum recorded chloride: 215 ppm
- Minimum recorded chloride: 180 ppm
- Maximum chloride in 1987: ppm

- Year drilled or constructed: 1942-43
- Well contractor: Nat Whiten
- Casing diameter: 12 in.
- Solid casing depth (Below ground): 111 ft.
- Perforated casing depth (Below ground): 250 ft.
- Minimum chloride in 1988: 145 ppm

E. INSTALLED PUMP DATA
- Pump type: □ Vertical shaft □ Submersible □ Centrifugal □ Other (specify):
- Power: □ Diesel, ___ HP □ Gas, ___ HP □ Electric, ___ HP □ Other (specify):
- Pump capacity: 400 gallons per minute
- Pump installation contractor: Rosaee Moss

For Official Use Only:
Date received: Date accepted:
Field checked by: Date: Latitude: Hydrologic Unit:
Comments: Longitude: State Well No.: References: Hawaii Revised Statutes, Chapter 174C;
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management. 808-586-8433 or (800) 586-8433 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a shaft, or in a tunnel, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 4158-13  
WELL NAME OR DESIGNATION: 339-B Kahuku  
ISLAND: Oahu

A. WELL OPERATOR
Firm name: Campbell Estate
Contact person: Sam Keala

B. OWNER OF WELL SITE
Firm name: Campbell Estate
Contact person: Sam Keala

C. WELL LOCATION
Tax Map Key: 5-6-05:7  
Town, Place, District: Koolauloa, Kahuku

Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (mean sea level): 62 ft.
Reference point (used to measure depth to water):
Elevation: ____________________ ft.
Description: ____________________

Depth to water (below reference point): _______ ft.
Maximum recorded chloride: _______ ppm
Minimum recorded chloride: _______ ppm
Maximum chloride in 1987: _______ ppm

E. INSTALLED PUMP DATA
Pump type: □ Vertical shaft □ Submersible □ Centrifugal □ Other (specify): None
Power: □ Diesel, ___ HP □ Gas, ___ HP □ Electric, ___ HP □ Other (specify): _______
Pump capacity: _______ gallons per minute
Pump installation contractor: ____________________

For Official Use Only:
Date received: _______  Date accepted: _______
Field checked by: _______  Date: _______  Latitude: _______  Hydrologic Unit: _______
Comments: _______  Longitude: _______  State Well No.: _______

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
TO: Aquatic Resources
    Forestry and Wildlife/Natural Area Reserve System
    Historic Preservation
    State Parks
FROM: Linnel T. Nishioka, Deputy Director
      Commission on Water Resource Management
SUBJECT: Request for Comments
        Water Use Permit Application
        Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at

RI: ss
Attachment(s)

Response:

✓ We have no comments
( ) We have no objections
( ) Comments attached

Contact Person: Nelson Ayres
Phone: 21
Signed: 21 24 Sep 97
Date: 24 Sep 97
Mr. Timothy Johns, Chair  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii

Dear Mr. John:

Subject: Application by Campbell Estate To Amend Water Use Permit (WUP) 298 to Increase The Allocation for the Kahuku Airbase System

The Estate of James Campbell is seeking to increase the allocation for its Kahuku Airbase Water System from 103,000 GPD to 200,000 GPD (see attached WUP Application). The two wells currently serving the system, Well Nos. 4158-12, 13, can provide the increased withdrawal without being modified.

The additional water is needed to accommodate uses in the Kahuku area for existing and future agricultural tenants. A little less than half of the 97,000 GPD being requested will serve existing uses. During the past year, the Kahuku Airbase System’s existing use has increased 50 percent. The attached graph shows the rise in the 12-month moving average pumpage during 1998 from 100,000 GPD to 150,000 GPD. The 50,000 GPD over existing use, that is being requested, will be used for farming on existing agricultural land owned by the Estate. We have been approached by two potential aquaculture tenants who want to begin farming as soon as water is made available.

If you have any questions, please call George Hiu at [blank].

Very truly yours,

Donna B. Goth  
Director, Hawaii Properties

Attachments

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<td>Jan-99</td>
<td>4,550,000</td>
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<td>34</td>
<td>149,854.05</td>
</tr>
</tbody>
</table>
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR WATER USE PERMIT

1. (a) APPLICANT
Name: The Estate of James Campbell
Contact Person: Donna B. Goth

(b) LANDOWNER OF SOURCE
Name: The Estate of James Campbell
Contact Person: Donna B. Goth

SOURCES INFORMATION
1. WATER MANAGEMENT AREA: Windward, Oahu, Koolauoa
2. (a) EXISTING WELLSTREAM DIVERSION NAME AND STATE NUMBER: Kahuku Air Base Well #4158-12 & 13
(b) PROPOSED (NEW) WELLSTREAM DIVERSION NAME: N/A
(c) LOCATION: Address: Kahuku, Oahu, Hawaii

3. QUANTITY OF WATER REQUESTED: 200,000 gallons per day (averaged over 1 year)

4. LOCATION OF PROPOSED WATER USE:
   - (a) PUC-Regulated Private System
   - (b) Tax Map Key: Please complete Table 1 on back of application and shade applicable portion of property tax map.

5. METHOD OF TAKING WATER
   - (check one): Stream
   - (check one): Artesian

6. QUALITY OF WATER REQUESTED:
   - (check one): Fresh
   - (check one): Other

7. PROPOSED USE:
   - (check one): Municipal (including hotels, stores, etc.)
   - (check one): Industrial
   - (check one): Military

8. APPLICANT MUST ESTABLISH THAT THE PROPOSED USE OF WATER:
   - (a) Can be accommodated with the available water source.
   - (b) Is a reasonably-beneficial use.
   - (c) Will not interfere with any existing legal use.
   - (d) Is consistent with the public interest.
   - (e) Is consistent with state and county general plans and land use designations.
   - (f) Is consistent with county land use plans and general policies.

   * Section 13-171-2, Hawaii Revised Statutes – "Reasonably-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.

9. REMARKS, EXPLANATIONS: (see next page)

http://www.hawaii.gov/dlnr/dwrmlacrobat/Forms/wupa.pdf 06/30/1999
Section 13-171-2, Hawaii Revised Statutes –

"Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.

16. REMARKS, EXPLANATIONS (cont’d): In addition to the 11 homes, 5 aquaculture offices, and the 9 agriculture/pasture tenants, the water will be used for farming by both existing and new farmers.

<table>
<thead>
<tr>
<th>TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER</th>
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<tbody>
<tr>
<td>PROJECT NAME &amp; PHASES</td>
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<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

1. See attached.

2. 3. 4. 5.

6. 7. 8.

9. 10.

TOTAL GPD

DEPARTMENT OF PLANNING AND PERMITTING SIGNATURE [Signature] DATE 9/15/99

Instructions for completing Table 1: Individual projects and phases must be listed separately and numbered sequentially on Table 1. Copy Table 1 and attach additional sheets if necessary. Please indicate individual projects and phases on TMK maps by clearly delineating project areas and indicating sequential number within delineated areas to coincide with Table 1. Please attach a separate sheet giving the address and a brief description of each project and phase listed above. In addition, if the proposed use is existing, please provide the WUP No. or indicate when the existing use was initiated. Also, the Department of Planning and Permitting must sign before application is acceptably complete.
<table>
<thead>
<tr>
<th>Project Name</th>
<th>Type</th>
<th>Use</th>
<th>Current County</th>
<th>Units or Net Acres</th>
<th>GPD/Unit or GPD/Acre</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Total GPD</th>
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<tr>
<td>Ralph Fukashima (by Kenui)</td>
<td>Pasture</td>
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<td>Rye Huang</td>
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<td>Vacant</td>
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</table>

TOTAL GPD: 147,890

DEPARTMENT OF PLANNING AND PERMITTING SIGNATURE: [Signature]

DATE: 6/19/99

June 16, 1999

Ms. Donna B. Goth
The Estate of James Campbell

Dear Ms. Goth:

Water Use Permit Application
Kahuku Air Base Well Nos. 4158-12 and 13

We have reviewed the above application that was submitted to the State Department of Land and Natural Resources (DLNR), Commission on Water Resource Management (COWRM). The proposed uses for the Tax Map Keys (TMK) in your application have been reviewed. We have the following comments:

1. Current zoning designation for TMKs: 5-6-2: 1, 2, 6-9, 19; 5-6-3: 1, 6, 26, 32, 38; 5-6-4: 2, 3, 6, 7, 9, 11, 13, 14, 18, 20, 24-27, 36-39, 42; 5-6-5: 2; and 5-6-6: 2 is AG-2 General Agricultural District.

[X] Proposed agricultural use is permitted under the current zoning under certain conditions:

a. Agricultural products processing (minor) is permitted as a principal use if conducted on a lot not used for crop production. Minor agricultural products processing includes activities on a zoning lot not used for crop production, which are not regulated as major agricultural products processing and which perform a variety of operations on crops after harvest to prepare them for market, or further processing and packaging at a distance from the agricultural area. Included activities are vegetable cleaning, honey processing, poi-making and other similar activities.
b. Agricultural products processing (minor) is permitted as a special accessory use when conducted on the same zoning lot on which the crop is cultivated.

c. Agricultural products processing (major) may be permitted if the following permit(s) is/are obtained:

1) Conditional Use Permit, Type 2

2) Plan Review Use

Major agricultural products processing includes activities involving a variety of operations on crops or livestock which may generate dust, odors, pollutants or visual impacts that could adversely affect adjacent properties. These uses include slaughterhouses, canneries and milk processing plants.

[X] Proposed aquaculture use is permitted as a principal use under the current zoning.

[X] Proposed residential use is not permitted under the current zoning, unless the family occupying the dwelling derives income from agricultural activity on the property.

2. Current zoning designations for TMKs: 5-6-3: 10 and 5-6-2: 9 is AG-2 General Agricultural District and P-1 Restricted Preservation District.

[X] Proposed agricultural use may be permitted under AG-2 zoning under certain conditions as stated in number 1 above.

[X] Agricultural use proposed within the P-1 zoning is governed by the State of Hawaii.

3. Current zoning designation for TMK: 5-6-6: 19 is AG-1 Restricted Agricultural District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.
Ms. Donna B. Goth  
Page 3  
June 16, 1999

4. Current zoning designations for TMK: 5-7-1: 21 are AG-1 Restricted Agricultural District and P-2 General Preservation District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.

[X] Proposed pasture use is not permitted under P-2 zoning.

5. [ ] Uses are within the Special Management Area.

[X] Uses are not within the Special Management Area.

Future water use permit applications should include location maps depicting the areas (TMKs) receiving the water. Properties may have more than one zoning designation or the TMK may not correspond to the location map.

The proposed project has been reviewed for the purpose of providing the above information and does not imply a recommendation of approval by this Department. Should you have any questions, please contact the Coastal Lands Branch at [contact information removed].

Very truly yours,

[Signature]

For JAN NAOE SULLIVAN  
Director of Planning and Permitting

JNS:am

cc: State DLNR, Commission on Water Resource Management

posse doc no. 5141
**STATE OF HAWAII**
**COMMISSION ON WATER RESOURCE MANAGEMENT**
**DEPARTMENT OF LAND AND NATURAL RESOURCES**
**DIVISION OF WATER RESOURCE MANAGEMENT**

**REGISTRATION OF WELL**

**AND DECLARATION OF WATER USE**

**INSTRUCTIONS:** Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management or [link for assistance].

**BATTERY OF WELLS:** For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

| STATE WELL NO.: | 4158-12 |
| WELL NAME OR DESIGNATION: | 339-A Kahuku Airbase |
| SOURCE OR STATION NAME (For a battery of wells): | |

### A. WELL OPERATOR
- **Firm name:** Campbell Estate
- **Contact person:** Sam Keala

### B. OWNER OF WELL SITE
- **Firm name:** Campbell Estate
- **Contact person:** Sam Keala

### C. WELL LOCATION
- **Tax Map Key:** 5-6-05i7
- **Town, Place, District:** Koolauloe, Kahuku
- **Attach USGS “Quad” map (scale 1:24,000), tax map, or other map showing the well location.**

### D. WELL DATA
- **Ground elevation (Mean Sea Level):** 60 ft.
- **Reference point (Used to measure depth to water):** 61.0 ft.
- **Description:** Concrete pad

- **Depth to water (Below reference point):** 215 ft.
- **Maximum recorded chloride:** 215 ppm
- **Minimum recorded chloride:** 180 ppm
- **Maximum chloride in 1987:** 145 ppm

- **Year drilled or constructed:** 1942-43
- **Well contractor:** Nat Whilton
- **Casing diameter:** 12 in.
- **Solid casing depth (Below ground):** 111 ft.
- **Perforated casing depth (Below ground):** ft.
- **Total depth of well:** 250 ft.
- **Minimum chloride in 1988:** 145 ppm

### E. INSTALLED PUMP DATA
- **Pump type:** Submersible
- **Power:** Diesel, Gas, Electric
- **Pump capacity:** 400 gallons per minute
- **Pump installation contractor:** Roscoe Moss

**For Official Use Only:**
- **Date received:**
- **Date accepted:**
- **Field checked by:**
- **Date:**
- **Latitude:**
- **Hydrologic Unit:**
- **Longitude:**
- **State Well No.:**

**References:** Hawaii Revised Statutes, Chapter 174C,
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
**STATE OF HAWAI**
**COMMISSION ON WATER RESOURCE MANAGEMENT**
**DEPARTMENT OF LAND AND NATURAL RESOURCES**
**DIVISION OF WATER RESOURCE MANAGEMENT**

**REGISTRATION OF WELL**
**AND DECLARATION OF WATER USE**

**INSTRUCTIONS:** Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible. Sign, and file form with the Division of Water Resource Management, 2400 Ala Moana Blvd., Suite 1800, Honolulu, HI 96813 for assistance.

**BATTERY OF WELLS:** For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

<table>
<thead>
<tr>
<th>STATE WELL NO.</th>
<th>4158-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLAND:</td>
<td>Oahu</td>
</tr>
<tr>
<td>WELL NAME OR DESIGNATION</td>
<td>339-B Kahuku</td>
</tr>
</tbody>
</table>

**SOURCE OR STATION NAME** (For a battery of wells):

**A. WELL OPERATOR**
- Firm name: Campbell Estate
- Contact person: Sam Keala

**B. OWNER OF WELL SITE**
- Firm name: Campbell Estate
- Contact person: Sam Keala

**C. WELL LOCATION**
- Tax Map Key: 5-6-057
- Town, Place, District: Koolauloa, Kahuku
- Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

**D. WELL DATA**
- For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
- For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

| Ground elevation (Mean sea level) | 62 ft. |
| Year drilled or constructed      | 1945   |
| Reference point (Used to measure depth to water) | ft. |
| Elevation                        | ft.    |
| Description                      |       |
| Depth to water (below reference point) | ft. |
| Maximum recorded chloride        | ppm   |
| Minimum recorded chloride        | ppm   |
| Maximum chloride in 1987          | ppm   |

**E. INSTALLED PUMP DATA**
- Pump type: □ Vertical shaft □ Submersible □ Centrifugal □ Other (specify): None
- Power: □ Diesel, ___ HP □ Gas, ___ HP □ Electric, ___ HP □ Other (specify): __________
- Pump capacity: _______ gallons per minute
- Pump installation contractor: __________

For Official Use Only:
- Date received: __________
- Date accepted: __________
- Field checked by: __________
- Date: __________
- Latitude: __________
- Hydrologic Unit: __________
- Comments: __________
- Longitude: __________
- State Well No.: __________

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at [REDACTED].

Response:

( ) We have no comments
( ) We have no objections
✓ Comments attached

Contact Person: [REDACTED]

Signed: [REDACTED]
State of Hawaii
Department of Land and Natural Resources
DIVISION OF AQUATIC RESOURCES
October 13, 1999

MEMORANDUM

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

From: Michael Fujimoto, Acting Administrator
Division of Aquatic Resources

Subject: Comments on Water Use Permit Application No. 99-2224

Comments Requested By: Ryan Imata

Date of Request: 9/22/99   Suspense Date: 10/18/99

Summary of Project

Title: Campbell Estate, Well Nos. 4158-12 & 4158-13
Proj. By: The Estate of James Campbell
Location: Koolauloa Ground Water Management Area, Oahu

Brief Description:

The Estate of James Campbell is seeking to increase the allocation for its Kahuku Airbase Water System from 103,000 GPD to 200,000 GPD. The two wells currently serving the system; Well Nos. 4158-12 & 13 can provided the increased withdrawal without being modified. There are no perennial streams in the immediate area.

Comments:

We have no objection to the proposed request.
TO:  
Honorable Raynard C. Soon, Chairperson  
Department of Hawaiian Home Lands  

Honorable Bruce S. Anderson, Director  
Department of Health  
Attn: Mr. Dennis Tulang  
Attn: Mr. William Wong  

Honorable Rowena Akana, Chairperson  
Office of Hawaiian Affairs  

Mr. Clifford S. Jamile, Manager & Chief Engineer  
Honolulu Board of Water Supply  
Attn: Mr. Chester Lao  
Attn: Mr. Barry Usugawa  

Ms. Jan Sullivan, Director  
Department of Planning and Permitting  
Attn: Mr. Gary Okino, Planning Division  

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

SUBJECT:  
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu  

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We would appreciate your review of the proposed use that is described in the attached application for any conflicts or inconsistencies with the land use designations, plans, policies, programs, or objectives specific to your organization or department only.  
Please respond by returning this cover memo form by October 18, 1999.  

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at [redacted].

Response:  

☐ We have no comments  
☐ We have no objections  
☐ Comments attached  

Contact Person: Darrell Yagodich/Rebecca Alakai  
Phone: [redacted]  
Date: 9/28/99  

Signed: [redacted]
TO:
Honorable Raynard C. Soon, Chairperson  
Department of Hawaiian Home Lands  
Honorable Bruce S. Anderson, Director  
Department of Health  
Attn: Mr. Dennis Tulang  
Attn: Mr. William Wong  
Honorable Rowena Akana, Chairperson  
Office of Hawaiian Affairs  
Mr. Clifford S. Jamile, Manager & Chief Engineer  
Honolulu Board of Water Supply  
Attn: Mr. Chester Lao  
Attn: Mr. Barry Usugawa  
Ms. Jan Sullivan, Director  
Department of Planning and Permitting  
Attn: Mr. Gary Okino, Planning Division

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

SUBJECT:
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu

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If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at

RI:ss  
Attachment(s)

Response:

() We have no comments  
() We have no objections  
() Comments attached

Contact Person: Lori Kajiwara  
Phone:  
Signed: Doe N. Kajiwara  
Date: 9-27-99
The following information is provided per your request:

We have a building permit application for the above mentioned property. However, there is no wastewater generated and therefore no system on the property has been approved of.

In addition:

- Kong Sourivong (1) 5-7-1:21
- Ag Building - No plumbing works
- BPA signed by Felix Udasco 2/20/97

Any questions, please call [redacted]
September 24, 1999

Timothy E. Johns, Chairperson
Commission on Water Resource Management
Dept. of Land & Natural Resources

Subject: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu
(Campbell Estate, Well Nos. 4158-12 & 13)

Dear Mr. Johns,

Thank you for the opportunity to review the above-referenced permit application. At this time the Office of Hawaiian Affairs has no comment on this project. If you have any questions please contact Ken R. Salva Cruz, Policy Analyst at [contact information removed].

Sincerely,

Colin Kippen
Deputy Administrator

CC: Board of Trustees
TO:  
Honorable Raynard C. Soon, Chairperson  
Department of Hawaiian Home Lands  

Honorable Bruce S. Anderson, Director  
Department of Health  
Attn: Mr. Dennis Tulang  
Attn: Mr. William Wong  

Honorable Rowena Akana, Chairperson  
Office of Hawaiian Affairs  

Mr. Clifford S. Jamile, Manager & Chief Engineer  
Honolulu Board of Water Supply  
Attn: Mr. Chester Lao  
Attn: Mr. Barry Usugawa  

Ms. Jan Sullivan, Director  
Department of Planning and Permitting  
Attn: Mr. Gary Okino, Planning Division  

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

SUBJECT:  
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu  

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We would appreciate your review of the proposed use that is described in the attached application for any conflicts or inconsistencies with the land use designations, plans, policies, programs, or objectives specific to your organization or department only. Please respond by returning this cover memo form by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at [redacted].

RI:ss  
Attachment(s)  

Response:  

(*) We have no comments  
() We have no objections  
() Comments attached  

Contact Person:  
Phone:  

Signed:  
Date: 10/2/99
TO:  
Honorable Raynard C. Soon, Chairperson  
Department of Hawaiian Home Lands  

Honorable Bruce S. Anderson, Director  
Department of Health  
Attn: Mr. Dennis Tulang  
Attn: Mr. William Wong  

Honorable Rowena Akana, Chairperson  
Office of Hawaiian Affairs  

Mr. Clifford S. Jamile, Manager & Chief Engineer  
Honolulu Board of Water Supply  
Attn: Mr. Chester Lao  
Attn: Mr. Barry Usugawa  

Ms. Jan Sullivan, Director  
Department of Planning and Permitting  
Attn: Mr. Gary Okino, Planning Division  

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

SUBJECT: Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

We would appreciate your review of the proposed use that is described in the attached application for any conflicts or inconsistencies with the land use designations, plans, policies, programs, or objectives specific to your organization or department only. Please respond by returning this cover memo form by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at .......
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We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at [ ]

RI:ss
Attachment(s)

Response:

✓ We have no comments
() We have no objections
() Comments attached

Contact Person: Elaine J. McDonald

Signed: [Signature] Date: 10/25/99
TO: Aquatic Resources
   Forestry and Wildlife/Natural Area Reserve System
   Historic Preservation
   State Parks

FROM: Linnel T. Nishioka, Deputy Director

SUBJECT: Request for Comments

Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at

RI:ss
Attachment(s)

Response:

() We have no comments
() We have no objections
() Comments attached

Contact Person: ____________________________

Signed: ____________________________

Phone: ____________________________

Date: 9/22/99
Mr. Timothy Johns, Chair  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii

Dear Mr. John:

Subject: Application by Campbell Estate To Amend Water Use Permit (WUP) 298 to Increase The Allocation for the Kahuku Airbase System

The Estate of James Campbell is seeking to increase the allocation for its Kahuku Airbase Water System from 103,000 GPD to 200,000 GPD (see attached WUP Application). The two wells currently serving the system, Well Nos. 4158-12, 13, can provide the increased withdrawal without being modified.

The additional water is needed to accommodate uses in the Kahuku area for existing and future agricultural tenants. A little less than half of the 97,000 GPD being requested will serve existing uses. During the past year, the Kahuku Airbase System’s existing use has increased 50 percent. The attached graph shows the rise in the 12-month moving average pumpage during 1998 from 100,000 GPD to 150,000 GPD. The 50,000 GPD over existing use, that is being requested, will be used for farming on existing agricultural land owned by the Estate. We have been approached by two potential aquaculture tenants who want to begin farming as soon as water is made available.

If you have any questions, please call George Hiu at [redacted]

Very truly yours,

Donna B. Goth  
Director, Hawaii Properties

Attachments

jir:01034600\K10277
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State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR WATER USE PERMIT

PERMITTEE INFORMATION
1. (a) APPLICANT
   Firm Name: The Estate of James Campbell
   Contact Person: Donna B. Goth
   E-mail:

   (b) LANDOWNER OF SOURCE
   Firm Name: The Estate of James Campbell
   Contact Person: Donna B. Goth
   E-mail:

SOURCE INFORMATION
2. WATER MANAGEMENT AREA: Windward, Oahu, Koolauloa  ISLAND: Oahu
3. (a) EXISTING WELL/STREAM DIVERSION NAME AND STATE NUMBER: Kahuku Air Base Well #4158-12 & 13
   (If source doesn’t presently exist, please attach well construction/stream diversion permit or application.)
   (b) PROPOSED (NEW) WELL/STREAM DIVERSION NAME: N/A
   (c) LOCATION: Address: Kahuku, Oahu, Hawaii  Tax Map Key: 5 6 05 07
      (Attach and show source location on a USGS map scale 1"=2000", and a property tax map)
4. THE LANDOWNER CERTIFIES THAT THE SUBJECT PROPERTY, OR A PORTION THEREOF, WAS, OR WAS NOT A STATE OF HAWAII LAND PATENT GRANT ISSUED AFTER 1960. (Check with your title search company or the Land Division, Department of Land and Natural Resources at 808-586-1514 for help.)
5. SOURCE TYPE (check one): Stream  Drilled  Perched  Carapick
6. METHOD OF TAKING WATER (check one): Artesian  Well & Pump  Diverted Surface  Other (explain)

USE INFORMATION
7. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) PUC-Regulated Private System  Intended Dedication to Dept. /Board of Water Supply
   (b) Non-PUC-Regulated Private System
5. Tax Map Key: Please complete Table 1 on back of application and shade applicable portion of property tax map.
8. QUANTITY OF WATER REQUESTED: 200,000 gallons per day (averaged over 1 year)
9. METHOD OF MEASUREMENT:
   Flowmeter  Open-pipe  Weir  Orifice  Other (explain)
10. QUALITY OF WATER REQUESTED:
   Clean  Brackish  Salt  Irrigation  Non-Potable
11. PROPOSED USE:
   Municipal (including hotels, stores, etc.)  Industrial  Potential  Agriculture  Other
12. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day
   (Daytime hours of operation; example, 7 a.m. to 2 p.m.)
13. APPLICANT MUST ESTABLISH THAT THE PROPOSED USE OF WATER:
   (a) Can be accommodated with the available water source.
   (b) Is a reasonable-beneficial use.*
   (c) Will not interfere with any existing legal use.
   (d) Is consistent with the public interest.
   (e) Is consistent with state and county general plans and land use designations.
   (f) Is consistent with county land use plans and general policies.

   * Section 13-171-2, Hawaii Revised Statutes —
   "Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.
14. REMARKS, EXPLANATIONS: (see next page)

NOTE: Signing below indicates that the signatories understand and swear that: 1) the information provided on this application is accurate and true to the best of their knowledge; 2) Item 14 is the responsibility of the applicant prior to Commission approval; 3) If necessary, further information may be required before the application is considered complete; 4) If a water use permit is granted by the Commission, such permit is subject to prior existing permitted uses, changes in sustainable yields and standards of water quality, and the public interest.

Applicant (print)  The Estate of James Campbell
Landowner (print)  The Estate of James Campbell

Signature__
Donna B. Goth, Director
Date 12/30/99

Signature__
Donna B. Goth, Hawaii Prop.
Date 1/30/99

WUPAFORM (5/22/99)

http://www.hawaii.gov/dlnr/dwrm/acrobat/Forms/wupa.pdf 06/30/1999
Section 13-171-2, Hawaii Revised Statutes –

"Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.

16. REMARKS, EXPLANATIONS (cont'd): In addition to the 11 homes, 5 aquaculture offices, and the 9 agriculture/pasture tenants, the water will be used for farming by both existing and new farmers.

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<th>PROJECT NAME &amp; PHASES</th>
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<th>CURRENT COUNTY ZONING CODE</th>
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TOTAL GPD

DEPARTMENT OF PLANNING AND PERMITTING SIGNATURE

Direct of Planning and Permitting

Instructions for completing Table 1: Individual projects and phases must be listed separately and numbered sequentially on Table 1. Copy Table 1 and attach additional sheets if necessary. Please indicate individual projects and phases on TMK maps by clearly delineating project areas and indicating sequential number within delineated areas to coincide with Table 1. Please attach a separate sheet giving the address and a brief description of each project and phase listed above. In addition, if the proposed use is existing, please provide the WUP No. or indicate when the existing use was initiated. Also, the Department of Planning and Permitting must sign before application is acceptably complete.
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<th>TMK</th>
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<th>Units or Net Acres</th>
<th>GPD/Unit or GPD/Acre</th>
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TOTAL GPD: 147,890

DEPARTMENT OF PLANNING AND PERMITTING SIGNATURE:

For JAN NAGIE SULLIVAN
Director of Planning and Permitting

Ms. Donna B. Goth  
The Estate of James Campbell

Dear Ms. Goth:

Water Use Permit Application  
Kahuku Air Base Well Nos. 4158-12 and 13

We have reviewed the above application that was submitted to the State Department of Land and Natural Resources (DLNR), Commission on Water Resource Management (COWRM). The proposed uses for the Tax Map Keys (TMK) in your application have been reviewed. We have the following comments:

1. Current zoning designation for TMKs: 5-6-2: 1, 2, 6-9, 19; 5-6-3: 1, 6, 26, 32, 38; 5-6-4: 2, 3, 6, 7, 9, 11, 13, 14, 18, 20, 24-27, 36-39, 42; 5-6-5: 2; and 5-6-6: 2 is AG-2 General Agricultural District.

[X] Proposed agricultural use is permitted under the current zoning under certain conditions:

a. Agricultural products processing (minor) is permitted as a principal use if conducted on a lot not used for crop production. Minor agricultural products processing includes activities on a zoning lot not used for crop production, which are not regulated as major agricultural products processing and which perform a variety of operations on crops after harvest to prepare them for market, or further processing and packaging at a distance from the agricultural area. Included activities are vegetable cleaning, honey processing, poi-making and other similar activities.
b. Agricultural products processing (minor) is permitted as a special accessory use when conducted on the same zoning lot on which the crop is cultivated.

c. Agricultural products processing (major) may be permitted if the following permit(s) is/are obtained:

1) Conditional Use Permit, Type 2
2) Plan Review Use

Major agricultural products processing includes activities involving a variety of operations on crops or livestock which may generate dust, odors, pollutants or visual impacts that could adversely affect adjacent properties. These uses include slaughterhouses, canneries and milk processing plants.

[X] Proposed aquaculture use is permitted as a principal use under the current zoning.

[X] Proposed residential use is not permitted under the current zoning, unless the family occupying the dwelling derives income from agricultural activity on the property.

2. Current zoning designations for TMKs: 5-6-3: 10 and 5-6-2: 9 is AG-2 General Agricultural District and P-1 Restricted Preservation District.

[X] Proposed agricultural use may be permitted under AG-2 zoning under certain conditions as stated in number 1 above.

[X] Agricultural use proposed within the P-1 zoning is governed by the State of Hawaii.

3. Current zoning designation for TMK: 5-6-6: 19 is AG-1 Restricted Agricultural District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.
4. Current zoning designations for TMK: 5-7-1: 21 are AG-1 Restricted Agricultural District and P-2 General Preservation District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.

[X] Proposed pasture use is not permitted under P-2 zoning.

5. [ ] Uses are within the Special Management Area.

[X] Uses are not within the Special Management Area.

Future water use permit applications should include location maps depicting the areas (TMKs) receiving the water. Properties may have more than one zoning designation or the TMK may not correspond to the location map.

The proposed project has been reviewed for the purpose of providing the above information and does not imply a recommendation of approval by this Department. Should you have any questions, please contact the Coastal Lands Branch at [contact information removed].

Very truly yours,

[Signature]

For JAN NAOE SULLIVAN
Director of Planning and Permitting

JNS:am

cc: State DLNR, Commission on Water Resource Management

posse doc no. 5141
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND
DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible. Sign, and file form with the Division of Water Resource Management, or for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

---

STATE WELL NO.: 4158-12
ISLAND: Oahu

WELL NAME OR DESIGNATION: 339-A Kahuku Airbase
SOURCE OR STATION NAME (For a battery of wells):

---

A. WELL OPERATOR

Firm name: Campbell Estate
Contact person: Sam Keala

B. OWNER OF WELL SITE

Firm name: Campbell Estate
Contact person: Sam Keala

---

C. WELL LOCATION

Tax Map Key: 5-6-0517
Town, Place, District: Koolauloa; Kahuku

Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

---

D. WELL DATA

For Drilled Wells, submit "as built" drawing, driller's log, and pump test results, and complete items below. For Tunnels and shafts, submit construction drawings, plot plan, or sketch map.

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<th>Ground elevation (Mean sea level)</th>
<th>Year drilled or constructed: 1942-43</th>
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<tr>
<td>Reference point (used to measure depth to water):</td>
<td>Well contractor: Nat Whiton</td>
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<td>Elevation:</td>
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<td>Description: Concrete pad</td>
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<td>Casing diameter: 12 in.</td>
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<tr>
<td>Depth to water (below reference point):</td>
<td>Solid casing depth (below ground): 111 ft.</td>
</tr>
<tr>
<td>Maximum recorded chloride: 215 ppm</td>
<td>Perforated casing depth (below ground):</td>
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<td>Minimum recorded chloride: 180 ppm</td>
<td>Total depth of well: 250 ft.</td>
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E. INSTALLED PUMP DATA

Pump type: □ Vertical shaft □ Submersible □ Centrifugal □ Other (specify):
Power: □ Diesel, ___ HP □ Gas, ___ HP □ Electric, ___ HP □ Other (specify):
Pump capacity: 400 gallons per minute
Pump installation contractor: Roscoe Nuss

---

For Official Use Only:
Date received: __________________ Date accepted: __________________
Field checked by: __________________ Date: __________________
Comments: __________________
Latitude: __________________ Hydrologic Unit: __________________
Longitude: __________________ State Well No.: __________________

References: Hawaii Revised Statutes, Chapter 1740.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible. Sign, and file form with the Division of Water Resource Management, or call (808) 587-0234 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 4158-13
WELL NAME OR DESIGNATION: 339-B Kahuku
SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR
Firm name: Campbell Estate
Contact person: Sam Keala

B. OWNER OF WELL SITE
Firm name: Campbell Estate
Contact person: Sam Keala

C. WELL LOCATION
Tax Map Key: 5-6-05:7 Town, Place, District: Koolauloa, Kahuku

D. WELL DATA
For Drilled Well: Submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shallow wells, submit construction drawings, plot plan, or sketch map.

Ground elevation (Mean sea level): 62 ft.
Reference point (used to measure depth to water): Elevation: 62 ft.
Description: ____________

Depth to water (Below reference point): ______ ft.
Maximum recorded chloride: ______ ppm
Minimum recorded chloride: ______ ppm
Maximum chloride in 1987: ______ ppm

E. INSTALLED PUMP DATA
Pump type: ☐ Vertical shaft ☐ Submersible ☐ Centrifugal ☐ Other (specify): None
Power: ☐ Diesel, ______ HP ☐ Gas, ______ HP ☐ Electric, ______ HP ☐ Other (specify): ______
Pump capacity: ______ gallons per minute
Pump installation contractor: ________________

For Official Use Only:
Date received: ______ Date accepted: ______
Field checked by: ______ Date: ______ Latitude: ______ Hydrologic Unit: ______
Comments: ____________________________
Longitude: ______ State Well No.: ______

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
PUBLIC NOTICE

Application for Water Use Permit
Koolauloa Ground Water Management Area, Oahu

The following application for water use permit has been received and is hereby made public in accordance with Department of Land and Natural Resources Administrative Rules 13-171, "Designation and Regulation of Water Management Areas."

Kahuku Air Base Wells (Well Nos. 4158-12 & 4158-13)
Applicant: The Estate of James Campbell

Date Completed Application Received: September 13, 1999
Aquifer: Koolauloa System, Windward Sector, Oahu
Water Source: Kahuku Air Base Wells (Well Nos. 4158-12 & 4158-13) at Kahuku, Oahu, Tax Map Key 5-6-05:07
Quantity Requested: 200,000 gallons per day.
New Water Use: Residential and Agriculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-various and 5-7-01: 21

Written objections or comments on the above application may be filed by any person who has property interest in any land within the hydrologic unit of the source of water supply, any person who will be directly and immediately affected by the proposed water use, or any other interested person. Written objections shall: (1) state property or other interest in the matter (provide TMK information); (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; and (3) state all grounds for objections to the proposed permit. Written objections must be received by October 18, 1999. Objections must be sent to 1) the Commission on Water Resource Management, and 2) the applicant at the above address.

COMMISSION ON WATER RESOURCE MANAGEMENT

LINNEL T. NISHIOKA, Deputy Director for
TIMOTHY E. JOHNS, Chairperson

SEP 21 1999

Dated: ____________________________

Publish in: Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999
Ms. Donna B. Goth
The Estate of James Campbell

Dear Ms. Goth:

We acknowledge receipt, on September 13, 1999, of your completed water use permit application for the Kahuku Air Base Wells (Well Nos. 4158-12 & 4158-13). You can expect your application to be processed within ninety (90) days from the date of receipt unless there are objections to your application.

Enclosed is a copy of the public notice for your water use permit application which will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

Please be aware that there may be objections to your application. If objections are made, the objector is required to file such objections with the Commission and is also required to send you a copy of the objections.

You, or any other party, may respond to objections by filing a brief in support of your application with the Commission within ten (10) days of the filing of an objection. You, or the other party, must also send a copy of the response to the objector.

If you have any questions, please contact Ryan Imata at [redacted]

Sincerely,

LINNEL T. NISHIOKA
Deputy Director

RI:ss
Enclosure
TO: Aquatic Resources  
Forestry and Wildlife/Natural Area Reserve System  
Historic Preservation  
State Parks

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

SUBJECT: Request for Comments  
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

We would appreciate your review of the attached application for any conflicts or inconsistencies with the programs, plans, and objectives specific to your division only. Please respond by returning this cover memo form by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at _______.

RI: ss
Attachment(s)

Response:

( ) We have no comments  
( ) We have no objections  
( ) Comments attached

Contact Person: _________________________ Phone: _________________________

Signed: _________________________ Date: _________________________
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 with regard to the programs, plans, and objectives specific to your division. Specifically, Item 9 on the application has been added per your request concerning water lease/permits administered by your division. **Please respond by returning this cover memo form by October 18, 1999.**

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 Ryan Imata of the Commission staff at [redacted].

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: _________________________
TO: Other Interested Parties

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

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

We would appreciate your review of the attached application for any conflicts or interferences with the programs, plans, and objectives of the organization or agency that you represent. Written objections should be made in accordance with Section 13-171-18 of our Administrative Rules and must be filed by the October 18, 1999 deadline.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at [redacted].

RI:ss
Attachment(s)

Response:

( ) We have no comments
( ) We have no objections
( ) Comments attached

Contact Person: __________________ Phone: ________

Signed: __________________ Date: ________
TO: Honorable Raynard C. Soon, Chairperson
Department of Hawaiian Home Lands

Honorable Bruce S. Anderson, Director
Department of Health
Attn: Mr. Dennis Tulang
Attn: Mr. William Wong

Honorable Rowena Akana, Chairperson
Office of Hawaiian Affairs

Mr. Clifford S. Jamile, Manager & Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Chester Lao
Attn: Mr. Barry Usugawa

Ms. Jan Sullivan, Director
Department of Planning and Permitting
Attn: Mr. Gary Okino, Planning Division

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

SUBJECT: Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

We would appreciate your review of the proposed use that is described in the attached application for any conflicts or inconsistencies with the land use designations, plans, policies, programs, or objectives specific to your organization or department only. Please respond by returning this cover memo form by October 18, 1999.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at [contact information]

Response:

( ) We have no comments
( ) We have no objections
( ) Comments attached

Contact Person: Phone:
Signed: Date:
TO: Ms. Esther Ueda, Executive Officer  
Land Use Commission  

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

SUBJECT: WATER USE PERMIT APPLICATION  
Koolauloa Ground Water Management Area, Oahu  

Transmitted for your review and comment is a copy of a water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.  

We would appreciate your review of the proposed use that is described in the attached application (i.e. line item 6 or Table 1). Specifically, we request that you inform us of the current state land use designation for the TMK parcel, or portion thereof, for the proposed use area(s) and, secondly, whether the current state land use designation is appropriate for the proposed project.  

We have attached a TMK map(s) that covers the proposed use area(s). Where water is proposed for use on only a portion of a TMK parcel, or on parcels with multiple zoning, the proposed use area(s) has been clearly delineated on the attached map. Please respond by returning this cover memo along with your review comments by October 18, 1999.  

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Ryan Imata at [redacted].  

RI:ss  
Attachment(s)  

Response:  

( ) The proposed water use(s) is consistent with the current zoning designation(s).  
( ) Comments attached  

Contact Person: __________________ Phone: __________________  
Signed: ______________________ Date: __________________
TO: Ms. Jan Sullivan, Director
Department of Planning and Permitting
Attn: Art Challacombe

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

SUBJECT: WATER USE PERMIT APPLICATION
Koolauloa Ground Water Management Area, Oahu

For your review and record, we are forwarding a copy of the application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13, which includes a copy of your concurrence letter regarding the consistency of the proposed projects with the parcel's current zoning designation. Public notice of this application will be published in the Hawaii State & County Public Notices (HS&CPN) issues of September 27, 1999 and October 4, 1999.

If you have any questions, please contact Ryan Imata at 587-0255.

RI:ss
Attachment(s)

Response:

( ) The proposed water use(s) is consistent with the current zoning designation(s).
( ) Comments attached

Contact Person: ___________________________ Phone: _______________

Signed: ___________________________ Date: _______________
Honorable Jeremy Harris, Mayor  
City & County of Honolulu  
City Hall

Dear Mayor Harris:

Notice of an Application for Water Use Permit  
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice and water use permit application for The Estate of James Campbell for Well Nos. 4158-12 & 4158-13, which will be published in the Hawaii State & County Public Notices (HS&CPN).

In addition, Section 13-171-13(b), of our Administrative Rules, states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have received a concurrence letter from the Department of Planning and Permitting (DPP) confirming the current zoning designation for the proposed use locations and the consistency of the current zoning designations with the proposed projects. In accordance with the procedure that has been established by DPP, we have also sent a copy of the application and an individual request for comments to DPP and the Board of Water Supply to facilitate and expedite City agencies review. We will look forward to receiving the City's review comments from DPP within the next sixty (60) days, on whether this water use is consistent with county plans, policies, and land use designations.

Very truly yours,

TIMOTHY E. JOHNS  
Chairperson

Enclosures
Mr. Timothy Johns, Chair  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii

Dear Mr. John:

Subject: Application by Campbell Estate To Amend Water Use Permit (WUP) 298 to Increase The Allocation for the Kahuku Airbase System

The Estate of James Campbell is seeking to increase the allocation for its Kahuku Airbase Water System from 103,000 GPD to 200,000 GPD (see attached WUP Application). The two wells currently serving the system, Well Nos. 4158-12, 13, can provide the increased withdrawal without being modified.

The additional water is needed to accommodate uses in the Kahuku area for existing and future agricultural tenants. A little less than half of the 97,000 GPD being requested will serve existing uses. During the past year, the Kahuku Airbase System’s existing use has increased 50 percent. The attached graph shows the rise in the 12-month moving average pumpage during 1998 from 100,000 GPD to 150,000 GPD. The 50,000 GPD over existing use, that is being requested, will be used for farming on existing agricultural land owned by the Estate. We have been approached by two potential aquaculture tenants who want to begin farming as soon as water is made available.

If you have any questions, please call George Hiu at

Very truly yours,

Donna B. Goth  
Director, Hawaii Properties

Attachments

jlr:01034600K10277
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<th>Avg KAB</th>
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</tbody>
</table>
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR WATER USE PERMIT

Groundwater or Surface Water

PERMITTEE INFORMATION
1. (a) APPLICANT
   Firm/Name: The Estate of James Campbell
   Contact Person: Donna B. Goth
   E-mail:

   (b) LANDOWNER OF SOURCE
   Firm/Name: The Estate of James Campbell
   Contact Person: Donna B. Goth
   E-mail:

SOURCE INFORMATION
2. WATER MANAGEMENT AREA: Windward, Oahu, Koolauloa
   ISLAND: Oahu

3. (a) EXISTING WELL/STREAM DIVERSION NAME AND STATE NUMBER: Kahuku Air Base Well #4158-12 & 13
   (If source doesn't presently exist, please attach well construction/stream diversion permit or application.)
   (b) PROPOSED (NEW) WELL/STREAM DIVERSION NAME: N/A
   (c) LOCATION: Address: Kahuku, Oahu, Hawaii
   Tax Map Key: 5 6 05 07
   (Attach and show source location on a USGS map, scale 1'2000, and a property tax map)

4. THE LANDOWNER CERTIFIES THAT THE SUBJECT PROPERTY, OR A PORTION THEREOF, WAS OR WAS NOT A STATE OF HAWAII LAND PATENT GRANT ISSUED AFTER 1960. (Check with your title search company or the Land Division, Department of Land and Natural Resources at 567-0414 for help.)

5. SOURCE TYPE (check one): ☐ Stream ☐ Irrigation ☐ Other
6. METHOD OF TAKING WATER (check one): ☐ Artesian ☐ Well & Pump ☐ Diverted Surface ☐ Other
   (explan)

USE INFORMATION
7. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) ☐ PUC-Regulated Private System
   (b) Tax Map Key: Please complete Table 1 on back of application and shade applicable portion of property tax map

8. QUANTITY OF WATER REQUESTED: 200,000 gallons per day (averaged over 1 year)

9. METHOD OF MEASUREMENT:
   ☐ Flowmeter ☐ Open-pipe ☐ Weir ☐ Orifice ☐ Other
   (explan)

10. QUALITY OF WATER REQUESTED: ☐ Fresh ☐ Brackish ☐ Salt ☐ Potable ☐ Non-Potable

11. PROPOSED USE: ☐ Municipal (including hotels, stores, etc.) ☐ Industrial ☐ Military

12. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day
   (Daytime hours of operation; example, 7 a.m. to 2 p.m.)

13. APPLICANT MUST ESTABLISH THAT THE PROPOSED USE OF WATER:
   (a) Can be accommodated with the available water source.
   (b) Is a reasonable-beneficial use.
   (c) Will not interfere with any existing legal use.
   (d) Is consistent with the public interest.
   (e) Is consistent with state and county general plans and land use designations.
   (f) Is consistent with county land use plans and general policies.

   * Section 13-171-2, Hawaii Revised Statutes - "Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest

14. REMARKS, EXPLANATIONS: (see next page)

   (signature)

Applicant (print) The Estate of James Campbell
Landowner (print) The Estate of James Campbell

Date: 6/30/99

http://www.hawaii.gov/dlnr/dwrm/acrobat/Forms/wupa.pdf

06/30/1999
Section 13-171-2, Hawaii Revised Statutes –

"Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.

16. REMARKS, EXPLANATIONS (cont'd): In addition to the 11 homes, 5 aquaculture offices, and the 9 agriculture/pasture tenants, the water will be used for farming by both existing and new farmers.

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<thead>
<tr>
<th>TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER</th>
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<tbody>
<tr>
<td>PROJECT NAME &amp; PHASES</td>
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<tr>
<td>1.</td>
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<td>2.</td>
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<td>8.</td>
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<td>9.</td>
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<tr>
<td>10.</td>
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<tr>
<td>TOTAL GPD</td>
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Instructions for completing Table 1: Individual projects and phases must be listed separately and numbered sequentially on Table 1. Copy Table 1 and attach additional sheets if necessary. Please indicate individual projects and phases on TMK maps by clearly delineating project areas and indicating sequential number within delineated areas to coincide with Table 1. Please attach a separate sheet giving the address and a brief description of each project and phase listed above. In addition, if the proposed use is existing, please provide the WUP No. or indicate when the existing use was initiated. Also, the Department of Planning and Permitting must sign before application is acceptably complete.
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<tr>
<th>Project Name</th>
<th>Use</th>
<th>New Use</th>
<th>Potable</th>
<th>NonPotable</th>
<th>TMK</th>
<th>Current County Units or Net Acres</th>
<th>GPD/Unit or GPD/Acre</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Total GPD (Annual Average)</th>
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**TOTAL GPD**

147,890

DEPARTMENT OF PLANNING AND PERMITTING SIGNATURE

for JAN NAOE SULLIVAN

Director of Planning and Permitting

Ms. Donna B. Goth  
The Estate of James Campbell

Dear Ms. Goth:

Water Use Permit Application  
Kahuku Air Base Well Nos. 4158-12 and 13

We have reviewed the above application that was submitted to the State Department of Land and Natural Resources (DLNR), Commission on Water Resource Management (COWRM). The proposed uses for the Tax Map Keys (TMK) in your application have been reviewed. We have the following comments:

1. Current zoning designation for TMKs: 5-6-2: 1, 2, 6-9, 19; 5-6-3: 1, 6, 26, 32, 38; 5-6-4: 2, 3, 6, 7, 9, 11, 13, 14, 18, 20, 24-27, 36-39, 42; 5-6-5: 2; and 5-6-6: 2 is AG-2 General Agricultural District.

[X] Proposed agricultural use is permitted under the current zoning under certain conditions:

a. Agricultural products processing (minor) is permitted as a principal use if conducted on a lot not used for crop production. Minor agricultural products processing includes activities on a zoning lot not used for crop production, which are not regulated as major agricultural products processing and which perform a variety of operations on crops after harvest to prepare them for market, or further processing and packaging at a distance from the agricultural area. Included activities are vegetable cleaning, honey processing, poi-making and other similar activities.
b. Agricultural products processing (minor) is permitted as a special accessory use when conducted on the same zoning lot on which the crop is cultivated.

c. Agricultural products processing (major) may be permitted if the following permit(s) is/are obtained:

1) Conditional Use Permit, Type 2
2) Plan Review Use

Major agricultural products processing includes activities involving a variety of operations on crops or livestock which may generate dust, odors, pollutants or visual impacts that could adversely affect adjacent properties. These uses include slaughterhouses, canneries and milk processing plants.

[X] Proposed aquaculture use is permitted as a principal use under the current zoning.

[X] Proposed residential use is not permitted under the current zoning, unless the family occupying the dwelling derives income from agricultural activity on the property.

2. Current zoning designations for TMKs: 5-6-3: 10 and 5-6-2: 9 is AG-2 General Agricultural District and P-1 Restricted Preservation District.

[X] Proposed agricultural use may be permitted under AG-2 zoning under certain conditions as stated in number 1 above.

[X] Agricultural use proposed within the P-1 zoning is governed by the State of Hawaii.

3. Current zoning designation for TMK: 5-6-6: 19 is AG-1 Restricted Agricultural District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.
4. Current zoning designations for TMK: 5-7-1: 21 are AG-1 Restricted Agricultural District and P-2 General Preservation District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.

[X] Proposed pasture use is not permitted under P-2 zoning.

5. [ ] Uses are within the Special Management Area.

[X] Uses are not within the Special Management Area.

Future water use permit applications should include location maps depicting the areas (TMKs) receiving the water. Properties may have more than one zoning designation or the TMK may not correspond to the location map.

The proposed project has been reviewed for the purpose of providing the above information and does not imply a recommendation of approval by this Department. Should you have any questions, please contact the Coastal Lands Branch at [REDACTED].

Very truly yours,

[Signature]

For JAN NAOE SULLIVAN
Director of Planning
and Permitting

JNS:am

cc: State DLNR, Commission on Water Resource Management

posse doc no. 5141
STATE OF HAWAI‘I
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND
DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N.A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management. Phone 808-586-3200 or 808-586-3203 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 4158-12
ISLAND: Oahu

WELL NAME OR DESIGNATION: 339-A Kahuku Airbase

SOURCE OR STATION NAME: (For a battery of wells):

A. WELL OPERATOR
Firm name: Campbell Estate
Contact person: Sam Keala

B. OWNER OF WELL SITE
Firm name: Campbell Estate
Contact person: Sam Keala

C. WELL LOCATION
Tax Map Key: 5-6-05;7
Town, Place, District: Koolauloa; Kahuku
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (mean sea level): 60 ft.
Elevation: 61.0 ft.
Description: Concrete pad

Depth to water (below reference point): ___ ft.
Maximum recorded chloride: ___ ppm
Minimum recorded chloride: ___ ppm
Maximum chloride in 1987: ___ ppm

Year drilled or constructed: 1942-43
Well contractor: Nat Whiton
Casing diameter: 12 in.
SOLID casing depth (below ground): ___ ft.
Perforated casing depth (below ground): ___ ft.
Total depth of well: ___ ft.
Minimum chloride in 1988: ___ ppm

E. INSTALLED PUMP DATA
Pump type: □ Vertical shaft □ Submersible □ Centrifugal □ Other (specify):
Power: □ Diesel, ___ HP □ Gas, ___ HP □ Electric, ___ HP □ Other (specify):
Pump capacity: 400 gallons per minute
Pump installation contractor: Roscoe Moss

For Official Use Only:
Date received: ___ Date accepted: ___
Field checked by: ___ Date: ___ Latitude: ___ Hydrologic Unit: ___
Comments: ___ Longitude: ___ State Well No.: ___

References: Hawaii Revised Statutes, Chapter 176C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
STATE OF HAWAI’I
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management, (808) 587-0010 or (800) 967-2489 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 4158-13
ISLAND: Oahu

WELL NAME OR DESIGNATION: 339-B Kahuku

SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR
Firm name: Campbell Estate
Contact person: Sam Keala
Address: 828 Fort St. Mall, Suite 500

B. OWNER OF WELL SITE
Firm name: Campbell Estate
Contact person: Sam Keala
Address: 828 Fort St. Mall, Suite 500

C. WELL LOCATION
Tax Map Key: 5-6-05:7
Town, Place, District: Koolauloa, Kahuku

D. WELL DATA
For Drilled Wells, submit “as built” drawing, driller’s log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.
Ground elevation (Mean sea level): 62 ft.
Elevation: ___________ ft.
Description: ___________
Reference point (Used to measure depth to water): ___________

Depth to water (below reference point): ___________

Maximum recorded chloride: __________ ppm
Minimum recorded chloride: __________ ppm

Maximum chloride in 1987: __________ ppm

E. INSTALLED PUMP DATA
Pump type: Vertical shaft ○ Submersible ○ Centrifugal ○ Other (specify): None
Power: Diesel, __ HP ○ Gas, __ HP ○ Electric, __ HP ○ Other (specify): ___________
Pump capacity: __________ gallons per minute
Pump installation contractor: ____________________________

(continued over)

For Official Use Only:
Date received: __________________ Date accepted: ___________
Field checked by: ___________ Date: ___________ Latitude: ___________ Hydrologic Unit: ___________
Comments: ___________ Longitude: ___________ State Well No.: ___________

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
June 16, 1999

Ms. Donna B. Goth
The Estate of James Campbell

Dear Ms. Goth:

Water Use Permit Application
Kahuku Air Base Well Nos. 4158-12 and 13

We have reviewed the above application that was submitted to the State Department of Land and Natural Resources (DLNR), Commission on Water Resource Management (COWRM). The proposed uses for the Tax Map Keys (TMK) in your application have been reviewed. We have the following comments:

1. Current zoning designation for TMKs: 5-6-2: 1, 2, 6-9, 19; 5-6-3: 1, 6, 26, 32, 38; 5-6-4: 2, 3, 6, 7, 9, 11, 13, 14, 18, 20, 24-27, 36-39, 42; 5-6-5: 2; and 5-6-6: 2 is AG-2 General Agricultural District.

[X] Proposed agricultural use is permitted under the current zoning under certain conditions:

a. Agricultural products processing (minor) is permitted as a principal use if conducted on a lot not used for crop production. Minor agricultural products processing includes activities on a zoning lot not used for crop production, which are not regulated as major agricultural products processing and which perform a variety of operations on crops after harvest to prepare them for market, or further processing and packaging at a distance from the agricultural area. Included activities are vegetable cleaning, honey processing, poi-making and other similar activities.
b. Agricultural products processing (minor) is permitted as a special accessory use when conducted on the same zoning lot on which the crop is cultivated.

c. Agricultural products processing (major) may be permitted if the following permit(s) is/are obtained:

1) Conditional Use Permit, Type 2

2) Plan Review Use

Major agricultural products processing includes activities involving a variety of operations on crops or livestock which may generate dust, odors, pollutants or visual impacts that could adversely affect adjacent properties. These uses include slaughterhouses, canneries and milk processing plants.

[X] Proposed aquaculture use is permitted as a principal use under the current zoning.

[X] Proposed residential use is not permitted under the current zoning, unless the family occupying the dwelling derives income from agricultural activity on the property.

2. Current zoning designations for TMKs: 5-6-3: 10 and 5-6-2: 9 is AG-2 General Agricultural District and P-1 Restricted Preservation District.

[X] Proposed agricultural use may be permitted under AG-2 zoning under certain conditions as stated in number 1 above.

[X] Agricultural use proposed within the P-1 zoning is governed by the State of Hawaii.

3. Current zoning designation for TMK: 5-6-6: 19 is AG-1 Restricted Agricultural District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.
Ms. Donna B. Goth
Page 3
June 16, 1999

4. Current zoning designations for TMK: 5-7-1:21 are AG-1 Restricted Agricultural District and P-2 General Preservation District.

[X] Proposed agricultural use may be permitted under AG-1 zoning under certain conditions as stated in number 1 above.

[X] Proposed pasture use is not permitted under P-2 zoning.

5. [ ] Uses are within the Special Management Area.

[X] Uses are not within the Special Management Area.

Future water use permit applications should include location maps depicting the areas (TMKs) receiving the water. Properties may have more than one zoning designation or the TMK may not correspond to the location map.

The proposed project has been reviewed for the purpose of providing the above information and does not imply a recommendation of approval by this Department. Should you have any questions, please contact the Coastal Lands Branch at [contact information]

Very truly yours,

[Signature]

For JAN NAOE SULLIVAN
Director of Planning
and Permitting

JNS:am

/cc: State DLNR, Commission on Water Resource Management

posse doc no. 5141
FROM: Hirano
DATE: 3/26/69
SUSPENSE DATE

TO: BAUER, G.
    CHING, F.
    FUJII, N.
    HARDY, R.
    HIGA, D.
    HIRANO, E.
    ICE, C.
    JIMATA, R.
    JINNAI, R.
    KUNIMURA, I.

INIT. TO: LUM, A.
        NAKAMA, L.
        NAKANO, D.
        OHYE, M.
        SAKODA, E.
        SUBIA, S.
        SWANSON, S.
        UYENO, D.
        YODA, K.

INIT: FOR: Approval
        Signature
        Information

PLEASE:
    See Me
    Review & Comment
    Take Action
    Type Draft
    Type Final
    File
    Xerox ___ copies

4/12/99

Lenore-
Can you merge acceptance for me?

Thanks!

Neal - does 12-MAY check out? APP

Yes - for most practical purposes!

Roy - do you want to check this out before I accept?

I think we can work that out - accept but let them know fines are a possibility.

INCOMPLETE! → Yes - oops! Lenore pointed out they are Region 7, not 8. Check with it going before.

CAMPBELL ESTATE PUMPAGE
KAHUKE AIRBASE WELL (Well No. 4158-12)

MONTHLY VALUES  12-MAV  WUP
0
CAMPBELL ESTATE KAHUKU AIRBAS
END_DA PUMPAG MGD

12MAV

09/30/95
10/31/95
11/30/95
12/31/95
01/31/96
02/29/96
03/31196
04/30/96
05/31/96
06/30/96
07/31196
08/31/96
09/30/96
10/31/96
11/30/96
01/02/97
01/28/97

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22650000
19250000
3240000
3454000
2436950
1600500
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1300000
1350000
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03/04/97

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04/03/97
05/01/97
05/31/97
07/01/97
07/29/97
9/5/97
10/6/97
10/31/97
12/3/97
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4/2/98
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7/2/98
8/3/1998
10/2/199
11/3/199
12/11199
1/4/1999

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31-Aug-9

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March 19, 1999

Mr. Timothy Johns, Chair
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. John:

Subject: Application by Campbell Estate To Amend Water Use Permit (WUP) 298 to Increase The Allocation for the Kahuku Airbase System

The Estate of James Campbell is seeking to increase the allocation for its Kahuku Airbase Water System from 103,000 GPD to 200,000 GPD (See attached WUP Application). The two wells currently serving the system, Well Nos. 4158-12, 13, can provide the increased withdrawal without being modified.

The additional water is needed to accommodate uses in the Kahuku area for existing and future agricultural tenants. A little less than half of the 97,000 GPD being requested will serve existing uses. During the past year, the Kahuku Airbase System's existing use has increased 50 percent. The attached graph shows the rise in the 12-month moving average pumpage during 1998 from 100,000 GPD to 150,000 GPD. The 50,000 GPD over existing use, that is being requested, will be used for farming on existing agricultural land owned by the Estate. We have been approached by two potential aquaculture tenants who want to begin farming as soon as water is made available.

If you have any questions, please call George Hiu at [redacted].

Very truly yours,

[Signature]

Donna B. Goth
Director, Hawaii Properties

Attachment

jlr:01034600K10277
<table>
<thead>
<tr>
<th>Date</th>
<th>Quantity Pumped</th>
<th>Days Between</th>
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<th>Avg KAB</th>
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## APPLICATION FOR WATER USE PERMIT

**COMMISSION ON WATER RESOURCE MANAGEMENT**  
Department of Land and Natural Resources

### PERMITTEE INFORMATION

<table>
<thead>
<tr>
<th>1. (a) APPLICANT</th>
<th>(b) LANDOWNER OF SOURCE</th>
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<tbody>
<tr>
<td>Firm Name</td>
<td>The Estate of James Campbell</td>
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<tr>
<td>Contact Person</td>
<td>Donna B. Goth</td>
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### SOURCE INFORMATION

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<tr>
<th>2. WATER MANAGEMENT AREA:</th>
<th>Windward Oahu, Koolaua</th>
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<tr>
<td>ISLAND:</td>
<td>Oahu</td>
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<td>3. (a) EXISTING WELL/DIVERSION NAME AND STATE NUMBER:</td>
<td>Kahuku Air Base - Well #4158-12 &amp; 13</td>
</tr>
<tr>
<td>(b) PROPOSED (NEW WELL/DIVERSION NAME):</td>
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<td>(c) LOCATION: Address</td>
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<td>Tax Map Key</td>
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### USE INFORMATION

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<th>Stream</th>
<th>Geothermal</th>
<th>Ground Water or Ground Pump</th>
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<td>Agriculture</td>
<td>Conservation</td>
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<td>(f) Current County Zoning District(s):</td>
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| 7. QUANTITY OF WATER REQUESTED: | 200,000 gallons per day (averaged over 1 year) |

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<th>Flowmeter</th>
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<th>Well</th>
<th>Office</th>
<th>Other (explain)</th>
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| 9. QUALITY OF WATER REQUESTED: | Fresh | Brackish | Salt | Potable | Non-Potable |

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<th>10. PROPOSED USE:</th>
<th>Municipal (including hotels, stores, etc.)</th>
<th>Individual Domestic</th>
<th>Irrigation</th>
<th>Military</th>
<th>Other (explain)</th>
</tr>
</thead>
</table>

For questions 11 & 12: If multiple TMKs are involved where water is to be used, please complete Table 1 on back of application.

| 11. TOTAL NUMBER OF RESIDENCES TO BE SERVED: | Domestic 11 homes/5 aquaculture/9 ag & pasture |
| 12. TOTAL ACRES TO BE IRRIGATED AND TYPE OF CROP: | N/A Plant material |
| (acres) (crop) | 24 hours per day (daytime hours of operation, ex. 7 a.m. to 2 p.m.) |

### PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:

<table>
<thead>
<tr>
<th>13. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:</th>
<th></th>
</tr>
</thead>
</table>

| 14. APPLICANT MUST ESTABLISH THAT THE PROPOSED USE OF WATER: |
| (a) Can be accommodated with the available water source. |
| (b) Is a reasonable-beneficial use as defined in section 13-171-2, HAR. (see backside of this application) |
| (c) Will not interfere with any existing legal use. |
| (d) Is consistent with the public interest. |
| (e) Is consistent with state and county general plans and land use designations. |
| (f) Is consistent with county land use plans and general policies. |

### REMARKS, EXPLANATIONS:

(see backside of this application)

---

**NOTE:** Signing below indicates that the signatories understand and swear that: 1) the information provided on this application is accurate and true to the best of the their knowledge; 2) Item 14 is the responsibility of the applicant prior to Commission approval; 3) If necessary, further information may be required before the application is considered complete; 4) If a water use permit is granted by the Commission, this permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses; and 5) Upon permit approval, a water shortage plan must be submitted by the applicant should the Commission require one.

**Applicant (print):** The Estate of James Campbell  
**Landowner (print):** The Estate of James Campbell

**Signature:** Donna B. Goth, Director, Hawaii Properties  
**Date:**

---

**WUPAFORM(8/27/96)**
"Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.

15. REMARKS, EXPLANATIONS (cont'd):

In addition to the 11 homes, 5 aquaculture offices, and the 9 agriculture/pasture tenants, the water will be used for farming by both existing and new farmers.

TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>EXISTING</th>
<th>POTABLE</th>
<th>CURRENT</th>
<th>UNITS</th>
<th>GPD/UNIT</th>
<th>4-YEAR PROJECTED DEMAND</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NEW USE</td>
<td>NONPOTABLE</td>
<td>COUNTY ZONING CODE</td>
<td>NET ACRES</td>
<td>GPD/ACRE</td>
<td>YEAR 1 (year)</td>
<td>YEAR 2 (year)</td>
</tr>
<tr>
<td>See attached.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL GPD</th>
</tr>
</thead>
</table>
Table 1. Multiple TMKs To Use Requested Water

<table>
<thead>
<tr>
<th>Project Name</th>
<th>New Use</th>
<th>Potable or Non-Potable</th>
<th>Current County Zoning Code</th>
<th>Units or Net Acres</th>
<th>GPD/Unit or Year Average</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaiian Marine Enterprises</td>
<td>Existing</td>
<td>Potable</td>
<td>Ag</td>
<td>1</td>
<td>78,872</td>
<td></td>
<td></td>
<td></td>
<td>78,872</td>
</tr>
<tr>
<td>Kahuku Aquaculture, Inc.</td>
<td>Existing</td>
<td>Potable</td>
<td>Ag</td>
<td>1</td>
<td>264</td>
<td></td>
<td></td>
<td></td>
<td>264</td>
</tr>
<tr>
<td>Kahuku Shrimp Company</td>
<td>Existing</td>
<td>Potable</td>
<td>Ag</td>
<td>1</td>
<td>9,136</td>
<td></td>
<td></td>
<td></td>
<td>9,136</td>
</tr>
<tr>
<td>Mangrove Tropicals, Inc.</td>
<td>Existing</td>
<td>Potable</td>
<td>Ag</td>
<td>1</td>
<td>2,661</td>
<td></td>
<td></td>
<td></td>
<td>2,661</td>
</tr>
<tr>
<td>Romy Aguinado</td>
<td>Aquaculture farming</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>4,572</td>
<td></td>
<td></td>
<td></td>
<td>4,572</td>
</tr>
<tr>
<td>Anamizu, Douglas</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>20,456</td>
<td></td>
<td></td>
<td></td>
<td>20,456</td>
</tr>
<tr>
<td>Mock-Chew, Bernard</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>4,742</td>
<td></td>
<td></td>
<td></td>
<td>4,742</td>
</tr>
<tr>
<td>Operating Engineers/Master</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>125</td>
<td></td>
<td></td>
<td></td>
<td>125</td>
</tr>
<tr>
<td>Chuck Cagle</td>
<td>Pasture</td>
<td></td>
<td></td>
<td></td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td>25</td>
</tr>
<tr>
<td>Elmer/Sally Yong</td>
<td>Pasture</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td>25</td>
</tr>
<tr>
<td>Gordon Tilley</td>
<td>Pasture</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td>25</td>
</tr>
<tr>
<td>Max Smith</td>
<td>Pasture</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>1,948</td>
<td></td>
<td></td>
<td></td>
<td>1,948</td>
</tr>
<tr>
<td>Ralph Fukushima (by Kenui)</td>
<td>Pasture</td>
<td></td>
<td></td>
<td></td>
<td>1,678</td>
<td></td>
<td></td>
<td></td>
<td>1,678</td>
</tr>
<tr>
<td>Tom Pickard</td>
<td>Pasture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ah Quin, John</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>406</td>
<td></td>
<td></td>
<td></td>
<td>406</td>
</tr>
<tr>
<td>Ah Quin, Sam</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>453</td>
<td></td>
<td></td>
<td></td>
<td>453</td>
</tr>
<tr>
<td>Casuga, John</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>4,914</td>
<td></td>
<td></td>
<td></td>
<td>4,914</td>
</tr>
<tr>
<td>Colburn, John</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>1,036</td>
<td></td>
<td></td>
<td></td>
<td>1,036</td>
</tr>
<tr>
<td>Conner, Norwood</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>336</td>
<td></td>
<td></td>
<td></td>
<td>336</td>
</tr>
<tr>
<td>Frias, Lei Hului</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>1,039</td>
<td></td>
<td></td>
<td></td>
<td>1,039</td>
</tr>
<tr>
<td>Huddy, Herbert</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>144</td>
<td></td>
<td></td>
<td></td>
<td>144</td>
</tr>
<tr>
<td>Kenui, George</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>631</td>
<td></td>
<td></td>
<td></td>
<td>631</td>
</tr>
<tr>
<td>Lopes, Northrop</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orin Jackson</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable</td>
<td>1</td>
<td>2,078</td>
<td></td>
<td></td>
<td></td>
<td>2,078</td>
</tr>
<tr>
<td>Tom Kashihagi</td>
<td>Residential</td>
<td>Potable</td>
<td>Ag</td>
<td>1</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
<td>350</td>
</tr>
<tr>
<td>Unaccounted water</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11,747</td>
<td></td>
<td></td>
<td></td>
<td>11,747</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>147,637</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>147,637</strong></td>
</tr>
</tbody>
</table>
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND
DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible. Sign, and file form with the Division of Water Resource Management.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 4158-12
ISLAND: Oahu

WELL NAME OR DESIGNATION: 339-A Kahuku Airbase

SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR
Firm name: Campbell Estate
Contact person: Sam Keala

B. OWNER OF WELL SITE
Firm name: Campbell Estate
Contact person: Sam Keala

C. WELL LOCATION
Tax Map Key: 5-6-05;7
Town, Place, District: Koolauloa, Kahuku
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

- Ground elevation (Mean sea level): 60 ft.
- Reference point (Used to measure depth to water): 61.0 ft.
- Description: Concrete pad
- Casing diameter: 12 in.
- Solid casing depth (Below ground): 111 ft.
- Perforated casing depth (Below ground): 111 ft.
- Total depth of well: 250 ft.
- Minimum chloride in 1987: 145 ppm
- Maximum chloride in 1987: __________ ppm

E. INSTALLED PUMP DATA
Pump type: [ ] Vertical shaft [ ] Submersible [ ] Centrifugal [ ] Other (specify): __________
Power: [ ] Diesel, ___ HP [ ] Gas, ___ HP [ ] Electric, ___ HP [ ] Other (specify): __________
Pump capacity: ___ gallons per minute
Pump installation contractor: Roscoe Moss

(continued over)

For Official Use Only:
Date received: __________ Date accepted: __________
Field checked by: __________ Date: __________ Latitude: __________ Hydrologic Unit: __________
Comments: __________ Longitude: __________ State Well No.: __________

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information is not available or not applicable, indicate as N.A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 4158-13
WELL NAME OR DESIGNATION: 339-B Kahuku
SOURCE OR STATION NAME: (For a battery of wells):

A. WELL OPERATOR
Firm name: Campbell Estate
Contact person: Sam Keala

B. OWNER OF WELL SITE
Firm name: Campbell Estate
Contact person: Sam Keala

C. WELL LOCATION
Tax Map Key: 5-6-05:7 Town, Place, District: Koolauloa, Kahuku

D. WELL DATA
For Drilled Wells, submit "as built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

Ground elevation (Mean sea level): 62 ft.

Reference point (Used to measure depth to water):
Elevation: ft.
Description:

Depth to water (below reference point): ft.

Maximum recorded chloride: ppm
Minimum recorded chloride: ppm
Maximum chloride in 1987: ppm

Year drilled or constructed: 1945
Well contractor: Mullin
Casing diameter: 12 in.
Solid casing depth (Below ground): 114 ft.
Perforated casing depth (Below ground): ft.
Total depth of well: 252 ft.
Minimum chloride in 1987: ppm

E. INSTALLED PUMP DATA
Pump type: □ Vertical shaft □ Submersible □ Centrifugal □ Other (specify): None
Power: □ Diesel, ___ HP □ Gas, ___ HP □ Electric, ___ HP □ Other (specify): ______

Pump capacity: ______ gallons per minute
Pump installation contractor: ____________________________

For Official Use Only:
Date received: ______________ Date accepted: ______________
Field checked by: ______________ Date: ______________
Latitude: ______________
Longitude: ______________
Hydrologic Unit: ______________
State Well No.: ______________

References: Hawaii Revised Statutes, Chapter 174C.
Hawaii Administrative Rules, Chapters 13-167 to 13-171.
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources  
Forestry and Wildlife  
Historic Preservation  
Land Management  
Natural Area Reserve System  
Office of Conservation and Environmental Affairs  
State Parks  
Water and Land Development  
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments  
Water Use Permit Application  
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person:  
Phone:  

( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
( ) Additional information requested  
( ) Extended review period requested

Signed:  
Date: 11/5/93
Oahu District Land Office has no objections provided that the applicant obtain the required Federal, State and County permits prior to initiating the proposed work.

Should you have any questions, please contact John Dooling at [Redacted].
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Water Use Permit Applications
Koolauloa Ground Water Management Area, Oahu

Applicant:  
Campbell Estate

Landowner:  
Same

Amor Ikko (4157-09), Amor Pact 1 (4258-12), Amor Pact 2 (4258-13), Amor RCA 1 (4258-08), Amor RCA 2 (4258-14), Haw Mar Ent Clam (4157-10), Haw Mar Ent Ogo (4157-08), Kahuku Airbase (4158-12&13), Kawanahana (3956-01), Malaekahana (3956-01), Pacific Sea 2 (4257-01), Pacific Sea 3 (4257-02), Palmer Golf Course (4100-01), Pump 1 (4057-01), Pump 2 (4159-01), Pump 6 (3957-07), Pump 8 (4057-06), Pump 12 (4057-08), Pump 12-A (4057-10), Pump 15 (4157-04), Punamanao (4159-02), Sugar Mill Pump (4057-11), T. Astro (4258-05), USFW 1 (4157-05), USFW 2 (4157-06), USFW 3 (4157-07)

Honolulu Board of Water Supply
Same

Hauula (3655-01), Kahuku Battery (4057-15,16), Kaluanui (3554-04,05), Punaluu I (3553-02), Punaluu II (3553-03,04,06,07,08), Punaluu III (3453-06,07), Waialee I (4101-07), Waialee II (4101-08),

Hanohano Enterprises, Inc.
Same
(Well No. 3553-01)

George N. Nihipali, Jr.
Same
(Well No. 3855-12)

Jacob I. Kaio, Sr.
Same
(Well No. 3956-07)
Background

The Commission designated Windward Oahu and its corresponding aquifer systems as water management areas on May 5, 1992. All registered ground water users were notified of the official designation date of July 15, 1992, on which the Commission would begin to accept applications for existing water use permits. All water use permit applications in the Koolauloa Ground Water Management Area submitted to the Commission to date are shown in Exhibit 1. Existing water use permits in the management area are shown in Exhibit 2. Other specific information regarding the source, use, objections, and field investigation(s) are described in Attachment A and the other attached exhibits. Exhibit 5 shows well locations and reported pumpage information indexed by well number.

Analysis & Issues

Overall Koolauloa Ground Water Management Area Conditions

The major issue in the Koolauloa Ground Water Management Area is the appearance of an overallocation situation given the number of water use permit applications for existing uses (Exhibit 1). The sustainable yield of the Koolauloa Aquifer System is 35 million gallons per day (mgd) but as of November 29, 1993 Exhibit 1 shows a total demand of 67.433 mgd. However, of the total requested amount, 33.256 mgd is a more reasonable estimate of the requested existing demands on the aquifer and is calculated according to Table 1 as follows:

<table>
<thead>
<tr>
<th>TABLE 1. Calculation for Reasonable Estimate of Existing Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity (mgd)</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td>67.433</td>
</tr>
<tr>
<td>+0.323</td>
</tr>
<tr>
<td>-1.000</td>
</tr>
<tr>
<td>-33.500</td>
</tr>
<tr>
<td>33.256</td>
</tr>
</tbody>
</table>

From this analysis, the overallocation situation does not appear to be factual. The 33.256 mgd estimate is within the area’s estimated sustainable yield of 35 mgd. Additionally, the majority of applicants, Campbell Estate (CE) and Honolulu Board of Water Supply (BWS), have requested pump capacities rather than the actual 12 month moving average (12-MAV). The 1992 draft of the Oahu Water Management Plan (OWMP) estimated 1990 average actual use to be 13.6 mgd which would be well within the system’s sustainable yield. Staff has updated this actual use estimate with the 12-month moving average, as of September 1993, at approximately 14 mgd based on water use reports submitted to the Commission. A significant amount of pumpage is not reported at this time, much of it salt water, but staff is making efforts to have all active well owners comply.

The Native Hawaiian Advisory Council (NHAC) has requested an extended review period for all applications in this water management area and other aquifer systems (see Attachment C). Subsequent to this request, NHAC has submitted objections and declared that they represent at least thirteen (13) individuals throughout the Windward Side of Oahu (See Attachment D). The objections relate to the overall procedures of regulating water use through the existing water use permit process specified under §13-171, HAR. While staff realizes that the rules and code can be interpreted in many ways it will continue to process.
Chairperson and Members
Commission on Water Resource Management

December 8, 1993

the applications in accordance with §13-171, HAR while being cognizant of general policies established through past Commission actions. NHAC has reserved the right to submit specific objections with the list of identified people NHAC represents at a later date. As such, no public hearing seems necessary at this time with regard to this objection.

Given the overall situation of the management area, staff sees no reason to delay action on the existing uses provides the following analysis for applications scheduled for action.

1. **CAMPBELL ESTATE (CE) EXISTING USES** - There are twenty-six (26) applications from CE in this management area for twenty-eight (28) wells. A number of different entities are using water but CE has come in as the applicant since they are the landowner. Wells which have been field verified as pumping salt water for various uses are listed in Table 2 as follows:

### TABLE 2.
Campbell Estate Existing Salt Water Wells for Aquaculture

<table>
<thead>
<tr>
<th>Operator</th>
<th>Well No.</th>
<th>Requested mgd</th>
<th>Current 12-MAX mgd</th>
<th>Recommended Action+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaiian Marine Enterprises</td>
<td>4157-08</td>
<td>3.000 (c.o.s)</td>
<td><em>0.433</em></td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amoriens Iako</td>
<td>4157-09</td>
<td>7.000</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Hawaiian Marine Enterprises</td>
<td>4157-10</td>
<td>3.000</td>
<td><em>0.144</em></td>
<td>SMA deferred</td>
</tr>
<tr>
<td>Pacific Sea Farms</td>
<td>4257-01</td>
<td>5.200</td>
<td>No reports</td>
<td>SMA deferral</td>
</tr>
<tr>
<td>Pacific Sea Farms</td>
<td>4257-02</td>
<td>3.700</td>
<td>No reports</td>
<td>SMA deferral</td>
</tr>
<tr>
<td>T. Astro</td>
<td>4258-05</td>
<td>5.000 (s.m)</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amoriens PACT 1</td>
<td>4258-08</td>
<td>0.300</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amoriens PACT 1</td>
<td>4258-12</td>
<td>3.000</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amoriens PACT 2</td>
<td>4258-13</td>
<td>0.900</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
<tr>
<td>Amoriens RCA</td>
<td>4258-14</td>
<td>0.300</td>
<td>No reports</td>
<td>Approve existing needs</td>
</tr>
</tbody>
</table>

* Note: Only 1 month of data supplied to Commission but verified through field investigation.

+ Note: based on recommendations of Aquacultural Development Program

The major issue with the salt-water applications listed in Table 2 is that actual use data is effectively non-existent. The applicant has indicated that they are compiling historic pumpage information but has not submitted any to date which is understandable since none of the wells in Table 2 were found to have any flow meters. Although staff believes that the salt water wells have a very limited effect on the freshwater portions of the aquifer (otherwise they would be brackish) these uses need to be permitted. Although it may be of questionable value to measure seawater pumpage, staff feels that accurate data may prove beneficial in the future. During staff review it became evident that the standard listed in the OWMP for aquaculture (36,000 gpd/acre) would not be appropriate for the uses listed based on acreage, especially since these uses are large scale. Additionally, the concern of discharge of the effluent is under review, but is being monitored by the Department of Health (DOH). Staff has been consulting with the State Aquacultural Development Program (ADP) as they are more experienced with aquaculture of this magnitude. ADP will be making recommendations to staff prior to the Commission meeting about reasonable amounts of salt water needed for these applications and the necessary measures taken to manage effluent discharges.
Additionally, the Mayor commented that the well(s) for Hawaiian Marine Enterprises (4157-10) and Pacific Sea Farms (4257-01&02) have been determined to reside in Special Management Areas (SMA), which would require SMA permitting. The Mayor asked that these applications be deferred until a SMA determination from DLU is completed.

Field verified wells for CE pumping non-salt water for various uses are listed in Table 3 as follows:

<table>
<thead>
<tr>
<th>Operator</th>
<th>Well No.</th>
<th>Requested mgd</th>
<th>Current 12-MAV mgd</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malaekahana Domestic System</td>
<td>3956-01</td>
<td>0.100</td>
<td>0.042</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Gunstock &amp; Puu Paina Ranch</td>
<td>3957-07</td>
<td>0.100</td>
<td>0.006</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Kawanakaoa Ranch</td>
<td>4056-01</td>
<td>1.000</td>
<td>+ 0.576</td>
<td>Approve 400,000 gpd est</td>
</tr>
<tr>
<td>Kahuku Farmers Assoc.</td>
<td>4057-01</td>
<td>1.500</td>
<td>0.307</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Turf Farm &amp; Kahuku School</td>
<td>4057-06</td>
<td>0.500</td>
<td>0.430</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Soukaseum &amp; Matsuda</td>
<td>4057-07</td>
<td>2.000</td>
<td>0.109</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Kahuku Prawn Farm</td>
<td>4057-10</td>
<td>1.500</td>
<td>+ 0.500</td>
<td>Approve 500,000 gpd est</td>
</tr>
<tr>
<td>Sugar Mill Pump</td>
<td>4057-11</td>
<td>0.500</td>
<td>0.028</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Palmer Golf Course</td>
<td>4100-01</td>
<td>0.800</td>
<td>0.206</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Amorient &amp; US Army</td>
<td>4157-04</td>
<td>1.500</td>
<td>+ 1.517</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Fish and Wildlife Serv.</td>
<td>4157-05</td>
<td>0.082</td>
<td>0.082</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Fish and Wildlife Serv.</td>
<td>4157-06</td>
<td>0.106</td>
<td>0.106</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Fish and Wildlife Serv.</td>
<td>4157-07</td>
<td>0.107</td>
<td>0.107</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Army, Airbase</td>
<td>4158-12&amp;13</td>
<td>0.500</td>
<td>0.103</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>Vietnamese Farmers</td>
<td>4159-01</td>
<td>3.000</td>
<td>0.814</td>
<td>Approve existing 12-MAV</td>
</tr>
<tr>
<td>US Army</td>
<td>4159-02</td>
<td>1.500</td>
<td>0.001</td>
<td>Approve existing 12-MAV</td>
</tr>
</tbody>
</table>

+ Note: unmet estimated by applicant.
++ Note: unmet estimated by staff of existing use on 5/21/93.

The non-salt water requests and their specific issues are as follows (refer to Exhibit 5 for location and use information):

a. MALAEKAHANA DOMESTIC SYSTEM (Well No. 3956-01) - The well site was inspected and verified on May 21, 1993. It is designated by the DOH as "Community Water System 316" and is monitored monthly for quality by DOH. The system services approximately 100 individuals; for the Malaekahana State Park 33 homes, and potable needs of Kawanakaoa's Ranch.

The first issue is that there are possibly six (6) active well users within a mile radius of this well. Only one (1) is downgradient and is also owned by the applicant, but no water use permit application has been submitted. The other five (5) have applied for water use permits and are pending in this submittal. Considering the applicant's well has been in use
since 1975 and are so near to the ocean, any adverse impacts would already be in evidence. No downgradient user or other has filed an objection to this application.

The second issue is that the applicant’s request for 0.100 mgd is more than the existing use. The source is metered and the current 12-MAV is approximately 0.042 mgd based on almost two (2) years worth of data (See Exhibit 5). Additionally, 0.042 mgd seems rather high for the domestic needs based on county standards that 33 homes would require approximately 16,500 gpd plus the need of the transient people at the park and the ranch’s potable needs. One explanation is that the transient number of people using the park varies greatly. Finally, the OWMP estimated 1990 average use at 0.50 mgd. Staff is unsure why this amount is so high compared to figures provided directly to the Commission but prefers to use the lower reported values.

b. GUNSTOCK AND PUU PA‘INA RANCHES (Well No. 3957-07) - The well site was inspected and verified on May 21 and October 28, 1993.

The first issue is that there are possibly three (3) active wells within a mile radius of this well. One is a privately owned source which has not come in for a water use permit and two (2) others are also owned by the applicant, both of which have water use permit applications pending in this submittal. Considering the applicant’s well has been in use since 1937 and the use is small (approximately 6,200 gpd), any adverse impacts would already be in evidence. No downgradient user has filed an objection to this application.

The second issue is that the applicant’s request for 0.100 mgd is more than the existing use. The source is metered and the current 12-MAV is approximately 6,200 gpd based on a year’s worth of data (See Exhibit 5). Apparently, this is enough to satisfy the applicant’s irrigation needs for 110 acres of pasture and 240 head of livestock. From the OWMP, 110 acres of pasture would normally require an estimate of 0.044 mgd but the area is in a wet area of the island. The OWMP did not estimate the use from this well.

c. KAWANANAKOA RANCH (Well No. 4056-01) - The well site was inspected and verified on October 8, 1990. Telephone contact on October 5, 1993 verified that the only change in use was a decrease from 80 to 64 livestock.

The first issue is that there are possibly five (5) active wells users within a mile radius of this well. None of these wells are downgradient. Four (4) out of the five (5) wells have submitted water use permit applications which are pending and addressed in this submittal. The other well is a privately owned source which has not come in for a water use permit. Considering the applicant’s well is so close to the ocean, any adverse impacts would already be in evidence. No objections have been filed for this application.

The second issue is that the requested amount of 1,000 mgd is in excess of verified existing use. The field investigation verified use for 30-35 acres of pasture, 64 livestock, and 1/4 acre taro and watercress. Existing 12-MAV reported at 0.576 mgd but is not metered. The OWMP did not estimate use for this well. According to the OWMP the pasture and taro together would require approximately 0.141 mgd. Livestock and watercress are not mentioned in the OWMP but assuming 100 gpd/head of livestock and 1 mgd gpd/acre of watercress, this would boost the reasonable requirement to approximately 0.400 mgd. Considering that this is a wet area of the island, this estimated need should be more than adequate. The applicant has indicated that they will be increasing pasture acreage by 15 acres (0.060 mgd). The applicant may modify their permit when these additional fields are put into production.

d. PUMP 1 (Well No. 4057-01) - The well site was inspected and verified on October 8, 1990 and again on October 15, 1993. The first issue with this application is that neither the applicant nor staff can determine if the well is a single or battery of wells connected underground. Well nos. 4057-01, 02, 08, 13 & 14 have been registered by the Kahuku Farmers Association (KFA) but staff could not find any of them except this main source. It is suspected that the other wells are below the ground surface and may connect in battery the single well head found in the field. NHAC commented that these other wells in battery should be included in the application. Staff will continue to investigate the locations of the other wells under the registration program and amend the water use permit if necessary.
The second issue is that there are possibly five (5) active wells users within a mile radius of this well. None of these wells are downgradient. Four (4) out of the five (5) wells have submitted water use permit applications which are pending and addressed in this submittal. The other is a privately owned source which has not come in for a water use permit. Considering the applicant's well is so close to the ocean and has been in use for some time, adverse impacts, if any, would already be in evidence. No objections have been filed for this application but NHAC has commented that the use affects Ki'i National Wildlife Refuge, an unnamed stream, and water rights. This would be more appropriately addressed if future increases in use are requested since these may bring about new impacts.

The third issue is that the requested amount of 1.500 mgd is in excess of verified existing use. The field investigation verified well the is used by KFA. The Association consists of 8 farmers to irrigate 215 acres of bananas, papayas, corn, etc., which is basically diversified agriculture. According to the OWMP diversified agriculture for 215 acres would require approximately 1.700 mgd. However, the metered average use over the past two years has been consistent and the current 12-MAV is 0.307 mgd as of 9/93. Also, the OWMP estimated use from the KFA at 0.32 mgd in 1990. The mayor had commented that the existing use may be overstated and the actual metered use confirms this. NHAC commented that the applicant should also show infeasibility of using non-potable water sources. Although the Commission encourages the use of non-potable water for irrigation staff’s position is that this existing use is reasonable and within the area’s sustainable yield. Additionally, the type of non-potable water use over the basal source may put the potable quality of the area at risk.

A fourth issue is that a new State Ag Park use is not included in this figure but is a very near future use (early 1994). The State DOA is planning to open an additional 212 acres which will use an estimated 2 mgd for diversified agriculture. Pumps from the well to this project have already been tested but are not metered. Staff recommends that this future use come in with its own water use permit application.

e. PUMP 8 (Well No. 4057-06) - The well site was inspected on May 28, 1993.

The first issue is that there are possibly six (6) active wells within a mile radius of this well. Two (2) of the wells are offset but probably downgradient of well. Five (5) out of the six (6) wells have applied for water use permit. One is owned by a private individual who has not applied for water use permit. DAR had concerns about dewatering Malaekahana Stream with future increases but no objections were filed to this application.

The second issue is that the requested amount of 0.500 mgd is in excess of verified existing use. The Mayor commented that this application may be an overstated request. The field investigation found use by Southern Turf Nurseries for approximately 12 acres of turf. The source is metered and has a current 12-MAV of 0.030 mgd. The OWMP estimated 1990 use at 0.040 mgd and the OWMP estimates the need for 12 acres of turf to be 0.048 mgd. Therefore, actual metered use is lower than projected but reasonable considering use is on the wet windward side of the island.

The third issue is that Campbell Estate has an agreement with Kahuku High School to supply 0.100 mgd for irrigation. Currently, the State Department of Accounting and General Services (DAGS) is presently undergoing negotiations with CE for a water agreement. The well source is non-potable and the Kahuku Community Assoc. is having DAGs convert the high school irrigation to this non-potable source. The school’s lawns have been irrigated by BWS service up to this point. The problem is that this use will increase pumpage from the aquifer, which qualifies it as a new use from the aquifer’s perspective. Given the concerns of DAR the Commission may wish to defer action on the future portion rather than deny this use at this time given the reasonableness of the new use for non-potable irrigation of a school lawn.

f. PUMP 12 (Well No. 4057-07) - The well site was inspected on March 15, 1991 and May 21, 1993.

The first issue is that there are possibly seven (7) active wells within a mile radius of this well. Five (5) out of the seven (7) have applied for a water use permit and one is a private owner who has not applied for a permit. The other is a well owned by the applicant. Four (4) of these wells are downgradient but all are owned by the applicant. No objections
by other ground water users have been filed. DAR had concerns about dewatering of Malaekahana Stream but no other comments.

The second issue is that the requested amount of 2.000 mgd is in excess of verified existing use. The Mayor commented that this application may be an overstated request. The inspection found two major users: 1) a co-op under Mr. U. Souksenw which is 210 acres of bananas, papayas, beans, etc. and 2) 65 acres for Melvin Matsuda for watermelons. Metered 12-MAV as of September 1993 is 0.109 mgd. The OWMP estimated 1990 use at 0.040 mgd. According to the OWMP the specified uses should require about 1.4 mgd if fully developed. Therefore, the applicant's request is too high.

The third issue is that NHAC commented that the applicant should show infeasibility of non-potable sources. Use will affect unnamed spring, unnamed stream, and water rights. Although the Commission encourages the use of non-potable water for irrigation, staff's position is that this existing use is reasonable and within the area's sustainable yield. Additionally, the type of non-potable water use over the basal source may be put the potable quality of the area at risk.

g. PUMP 12-A (Well No. 4057-10) - The well site was inspected on May 21, 1993. This well resides in the same location as Well No. 4057-07.

The first issue is that there are possibly seven (7) active wells within a mile radius of this well. Five (5) out of the seven (7) have applied for a water use permit, one is a private owner who has not applied for a permit, and the other is owned by the applicant. Four (4) of these wells are downgradient but all are owned by the applicant. No objections by other ground water users have been filed. DAR had concerns about dewatering of Malaekahana Stream but no other comments.

The second issue is that the requested amount of 1.500 mgd may be in excess of the verified existing use. The Mayor commented that this application may be an overstated request. The field investigation found that the user, Kauku Prawn Co., cultivates 25 acres of freshwater prawns and had recently signed a lease for an additional 23 acres. User was in the process of clearing the land for the future ponds. The well is not metered and reports are not submitted to the Commission. The applicant had indicated that they are asking the user to submit water use reports but they are not complying. The OWMP did not estimate 1990 use. According to the OWMP the existing 25 acres of aquaculture would require 0.900 mgd. Staff would like to consider the input of ADP.

The third issue is that the user was actively doubling the existing use at the time of inspection. A total of 48 acres would require about 1.728 mgd for aquaculture. Given the facts that the user and applicant have known about the water reporting requirements, have chosen not to comply, and had actively pursued, by construction, increasing a significant portion of use during the establishment of existing uses, staff feels that this use should be considered a future use. As such, staff recommends the applicant submit another application for the 23 acres of aquaculture under future use.

h. SUGAR MILL PUMP (Well No. 4057-11) - The well site was inspected on May 21 & October 28, 1993.

The first issue with this application is that the well number assigned by the applicant is in error. There are five (5) wells within close proximity of each other and the original number assigned by the applicant was 4057-04. In staff's judgement, the well identified by the applicant is 4057-11. Investigation verified 60 acres of truck farm use by Vietnamese tenants. Additionally, Well No. 4057-03 is used for 3 acres of turf irrigation and has not been applied for. The other three (3) wells in the area are not in use although one used to be for fire protection. NHAC commented that other wells in the sugar mill pump battery should be combined in application and put out for public notice. Staff's field investigation shows that the applicants original application is only in well no. error and that the Well No. 4057-03 should also come in with a water use permit application separately or amend this original application.

The second issue is that there are possibly six (6) active wells users within a mile radius of this well. None of these wells are downgradient. Five (5) out of the six (6) wells have submitted water use permit applications which are pending and addressed in this submittal. The other well is a privately owned source which has not come in for a water use.
permit. Considering the applicant's wells are close to the ocean, adverse impacts, if any, would already be in evidence. No objections have been filed for this application.

The third issue is that the requested amount is in excess of verified existing use. The Mayor commented that the application may be an overstated request. The current metered 12-MAV reported is 0.028 mgd. The OWMP did not estimate use for this well but the estimated demand for 60 acres of bananas would be 0.181 mgd. Actual usage is much less and may be explained by the higher rainfall on this windward area.

i. PALMER GOLF COURSE (Well No. 4100-01) - This existing source uses non-potable basal water for irrigation of 188 acres of Kuliima Golf Course. The only real issue with this application is the amount of water to be allocated. A field investigation on October 4, 1993 noted that only the front 9 holes of the 18-hole golf course is open to the public. Because of financial constraints, the other nine holes are being maintained at a minimal level. If all 18 holes were to be kept in premium condition, considerably more water than what is currently being used would be required.

The actual 12-month moving average withdrawal is 0.206 mgd as of September 1993. This is considerably less than the requested allocation of 0.800 mgd. Although monthly pumpage has varied, twelve-month moving average withdrawals have been steady at slightly over 0.200 mgd for the last ten months, although slightly declining from about 0.250 mgd as of December 1992. Because average use has been consistent for nearly a year, the current 12-month moving average withdrawal of 0.206 mgd seems to be a good estimate of the irrigation water requirement.

Although there are several other pumped wells within a mile of the well, none of these is located downgradient. The closest stream is Kawela Stream, which is located about half a mile from the well. Aquatic Resources commented that Kawela Stream is intermittent, generally dry, and does not support native freshwater species. Continued use should not result in unacceptable adverse impacts to other local wells, streams, and the aquifer.

The Office of the Mayor and BWS has commented that the amount of water requested may be overstated and should be adjusted based on actual use. These agencies also suggest that an alternative source of lesser quality should be used.

j. PUMP 15 (Well No. 4157-04) - The well site was inspected on April 1991, May 21 & September 1, 1993.

The first issue with this well is that there are possibly three (3) active wells within a mile of the well. Two (2) out of the three have applied for a water use permit. The other is a private owner who has not filed an application.

The second issue is that the requested amount of 1.5 mgd may exceed the actual pumpage. The Mayor commented that the application may be an overstated request. The inspection found that Amorient uses the well for 31 one-acre fresh water prawn ponds continuously supplied all day. Also, the US Army has an additional pump hooked-up to withdraw water for six (6) military offices. Amorient's use is not metered nor do they report. The Army does meter and report their use and their current 12-MAV is 0.017 mgd. Originally the application came in separately, 1.5 mgd for Amorient and 0.030 mgd for the Army. Staff recommended that these applications be combined since CE is the applicant. The OWMP estimated use from this well at 1.80 mgd in 1990. The OWMP estimates a reasonable use of about 1.120 mgd although staff would like to consider comments from ADP on the reasonableness of the use. Amorient estimates they use 1.5 mgd.

A third issue is that NHAC commented that the existing use will affect Ki'i National Wildlife Refuge and water rights. Since the use has been in place for several years impacts have probably already been felt. This should be more appropriately addressed if future increases in use are requested since these may bring about new impacts. Additionally, The Office of Hawaiian Affairs warned of a potential overuse situation in the aquifer system. This has been explained to them as was done at the beginning of this submittal.

k. US FISH & WILDLIFE SERVICE (Well Nos. 4157-05 to 07) - Three separate permit applications were submitted for three existing artesian sources drilled within about a 70-foot radius. The wells, which are located about half a mile inland near Kahu, use water for habitat maintenance in a designated National Wildlife Refuge for endangered water birds.
A field investigation on August 27, 1993, verified the applicant's existing use. It was also confirmed that the acreage listed on the permit applications is incorrect; total acreage is 101.936, not 101.936.

The wells flow by artesian flow into a central sump area by opening a valve, no meters or pumps are installed. Water use is estimated using the volumetric method. Use is seasonal, with more water being used during the winter months. Water availability is dependent on the height of the water table.

The total request for the three wells is 294,773 gpd. Monthly water use reports have not been submitted, and there is no means by which to verify the applicant’s estimated water needs. Another issue is that there are over thirty (30) wells within a mile of these wells, although no wells are located downgradient. However, the request is for a relatively small amount of water for a use that has been in existence for a number of years. Issuance of an interim water use permit requires that monthly water use be reported, and the allocation is subject to review and refinement based on these data. Also, because the wells are not pumped, other local wells should not be affected. Impacts to surface waters and the aquifer are not anticipated.

1. US ARMY (Well Nos. 4158-12 & 13) - The applicant submitted one permit application requesting use of 0.500 mgd of potable water from these two sources. From the field investigation on May 21, 1993, it was determined that one of these wells, Well No. 4158-13, is capped and is no longer in use. The requested quantity of 500,000 gpd is approximately the capacity of the pump installed in Well No. 4158-12.

The domestic water system, which uses water from the active source, has been in operation since 1941. The source supplies 15 service connections (mixed commercial and domestic users) and serves an estimated population of 75. Water is used for troop's drinking water during maneuvers and domestic use in Kuleana homes. Small amounts of water are used by several aquacultural facilities, and the well also provides one water trough for 65 cattle (the rest of the animals' drinking water needs is supplied by Well No. 4159-01, which has a pending permit application that includes this use).

Water use is metered and is reported on a monthly basis. Reported actual use indicates a 12-month moving average withdrawal of 0.103 mgd as of October 1993. Actual water use is therefore considerably less than the requested quantity of 0.500 mgd. Twelve-month moving average withdrawals have been steady at about 103,000 gpd for the previous five months. Therefore, an allocation of 0.103 mgd appears to be a reasonable amount to satisfy the applicant's existing needs.

Both NHAC and the Office of Hawaiian Affairs (OHA) have commented that Campbell Estate use of water appears excessive. OHA also urges the Commission to halt Campbell’s water permits until rules and regulations for water permits are clearly spelled out in the upcoming State Water Code Review.

d. PUMP 2, FARMERS (Well No. 4159-01) - Field investigations conducted on May 21, 1993 and September 1, 1993 verified that non-potable water from this existing artesian source is currently being used by truck farms for drip and sprinkler irrigation of approximately 250 acres of bananas, papayas, and various vegetable crops. Some water is also used to supply drinking water for approximately 65 head of cattle and horses. The pasture in which the animals graze is not irrigated.

One issue concerning this application is the quantity of water to be allocated. The request is for 3 mgd for agricultural irrigation of 250 acres. Reported monthly water use has varied in the last 18 months from an average of 0.185 mgd to 1.269 mgd. The highest monthly water use reported during this period is less than half of the amount requested. Further, at full capacity, the pumps can only withdraw a maximum of 1.857 mgd. Therefore, it appears that the applicant's request is too high. The 12-month moving average withdrawal is estimated to be about 0.814 mgd. This appears to be a more reasonable estimate of actual existing use. The Oahu Water Requirements Forecast for 250 acres of papaya is 1,250,000 gpd, while the forecast for the same number of acres in banana is about 0.750 mgd. The twelve-month moving average withdrawal falls within this range.

A second issue is the presence of springs and other pumped wells in the vicinity of the source; some of these are located downgradient. However, pumpage has decreased from
Chairperson and Members
Commission on Water Resource Management

December 8, 1993

1992 levels; for the period January 1, 1992 through September 30, 1992, withdrawals averaged 1.84 mgd. Current pumpage is less than half of this. Therefore, interim instream flow standards, effective as of May 4, 1992, should not be affected by current rates of withdrawals. Unacceptable adverse impacts to other local wells and the aquifer are not anticipated. No specific objections have been filed for this application.

n. US ARMY (Well No. 4159-02) - A field investigation, conducted on September 1, 1993, verified that the only existing use of potable water from this existing source is for the domestic needs of two Kuleana homes. The application states that water is requested for use by two administrative facilities at the Punamano Air Force Station and for irrigation of 75 acres of pasture; however, it has been determined that this facility has been abandoned by the Air Force (although water had been used there up until last year). The field investigation also verified that no water is currently being used for irrigation purposes.

The requested amount, 1.5 mgd, greatly exceeds verified existing use. Although water use is not metered, the Army Dept. of Public Works, which operates this source, estimates that average use is about 1,200 gpd. This estimate is in line with the County Domestic Consumption Guidelines, which indicate an average daily demand of 500 gallons per single family residential unit on Oahu. Due to the aridity of the area, actual water use may be slightly higher than that suggested by the guidelines. Therefore, the estimate of 1,200 gpd is considered reasonable. Since this use is so small the applicant can be exempted from reporting month in accordance with the Commission’s September 16, 1992 action.

There are several springs in the vicinity of the source, one of which appears to be downgradient. There are also several wells located nearby. Six (6) of these wells are currently being used. However, because the quantity of water currently being used is very small, and pumpage has decreased in the last few years due to the closing of the air force facility, impacts to surface waters, other wells, and the aquifer are not anticipated.

The Office of the Mayor and the Board of Water Supply have commented that the amount requested in this application may be overstated and should be adjusted based on actual use.

NHAC has expressed their concern over the possible effects on interim instream flow standards and potential impacts on other existing legal uses of water. However, if a permit is granted for only the existing verified use, no impact is anticipated.

2. BWS EXISTING USES - The BWS has nine (9) applications for seventeen (17) wells in the Koolauloa Ground Water Management Area which have existing use. Generally, staff is recommending approval of current reported 12-MAV for each application, as summarized under Table 4. One issue regarding all BWS applications is the NHAC comments listed in Attachments C & D. The NHAC commented that all county zoning for end uses should be described and overall statistics for the windward system should be given. This would be a monumental task for both the applicant and staff to review. Instead, staff proposes that all municipal uses are reasonable and the current and existing 12-MAV for the BWS sources should cover existing municipal uses at this time. Future uses would require project information such as zoning and 4-year commitment to initiate and justify future use requests from BWS. This would be consistent with what has been done in other water management areas including the Pearl Harbor reallocation efforts.
TABLE 4.

BWS Existing Water Wells

<table>
<thead>
<tr>
<th>Well No.</th>
<th>Requested 9/93 12-MAV</th>
<th>Field Recommended</th>
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<tbody>
<tr>
<td></td>
<td>mgd mgd</td>
<td>Action</td>
</tr>
<tr>
<td>3453-06 &amp; 07</td>
<td>1.250 1.339</td>
<td>Yes Approve existing 12-MAV</td>
</tr>
<tr>
<td>3553-02</td>
<td>0.350</td>
<td>No Defer until field checked</td>
</tr>
<tr>
<td>3553-03,04 06 to 08</td>
<td>6.000 4.618</td>
<td>Yes Approve existing 12-MAV</td>
</tr>
<tr>
<td>3554-03</td>
<td>6.000 4.618</td>
<td>No Defer until field checked</td>
</tr>
<tr>
<td>3554-04 &amp; 05</td>
<td>1.500 1.093</td>
<td>No Defer until field checked</td>
</tr>
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* In same battery of Punaluu III in row directly above.

Other issues regarding each source are as follows (refer to Exhibit 5 for location and use information):

a. **PUNALUU III (Well Nos. 3453-06 & 07)** - The wells sites were inspected and verified on October 19, 1993.

The first issue is that there are two (2) active wells within a mile radius of these wells. One is for domestic use only and the other was granted a water use permit on September 1, 1993. Considering the applicant's wells have been in use since 1974, adverse impacts have already been made. Neither downgradient user has filed an objection to this application.

The second issue is that the wells may have some impacts on Punaluu Stream. The Division of Aquatic Resources (DAR) did not make any comments on this application, but they did make comments on BWS's Punaluu II well field located further away from the stream. DAR commented that the Punaluu II battery of wells is located between two of the most valuable stream habitats for native biota, Punaluu and Kaluanui Streams. Since wells have been in place since 1969 then impacts have already occurred. Any applications for new wells (or pumpage) in this area should seriously address this issue. Staff is assuming that these comments would also apply to Punaluu III.

The third issue with this application is that the BWS request for 1.250 mgd seems low compared to the current actual use. The 12-MAV (See Exhibit 5) for the past two (2) years shows that the request would be for the minimum 12-MAV. The current 12-MAV as of September 1993 is 1.339 mgd. This would appear closer to the maximum 12-MAV over the past 2 years for these wells. Also, compared to the OWMP figure of 1.000 mgd, the current 12-MAV seems reasonable.

b. **PUNALUU I (Well No. 3553-02)** - The well was not field verified. Wrong keys obtained to access.

c. **PUNALUU II (Well Nos. 3553-03,04, 06 to 08 & 3554-03)** - This major source of wells was investigated and verified on October 19, 1993 with the exception of Well No. 3554-03 (wrong keys to access).

The first issue is there is one major user directly downstream who has applied for a water use permit (Hanohano Enterprises, Inc.). Another user with an existing water use
Chairperson and Members
Commission on Water Resource Management

permit (see Exhibit 2) is within a mile of the well field. Since these BWS wells have been used since 1967 negative impacts would have been felt by these users. No objections from either user have been filed with the Commission.

The second issue is that these wells may have some impacts on Punaluu and Kaluanui Streams. DAR commented that the Punaluu II battery of wells is located between two of the most valuable stream habitats for native biota, Punaluu and Kaluanui Streams. Since wells have been in place since 1969, impacts have already occurred. Any applications for new wells (or pumpage) in this area should seriously address this issue.

The third issue is that the BWS request for 6.000 mgd for these wells seems high compared to the current actual use. The 12-MAV (See Exhibit 5) since July 1992 shows that the request would be for the maximum 12-MAV for the past 16 months. The current 12-MAV as of September 1993 is 4.618 mgd. This is also in relative agreement with the OWMP 1990 estimate of 4.51 mgd. Therefore, the current 12-MAV seems reasonable for existing use from this well.

d. KALUANUI (Well Nos. 3554-04 & 05) - The wells were not field verified. Wrong keys obtained to access.

e. HAUULA (Well No. 3655-01) - The well site was inspected and verified on October 19, 1993.

The first issue is that there are three (3) active wells within a mile radius of the well. No objections have been filed by these well owners and one, the most southern, received a water use permit in September 1993. Since the well is so close to the ocean, adverse affects to other wells and streams in the area should be minimal as aquifer leakage into the ocean is primarily affected.

The second issue is that the current 12-MAV deviates significantly from the rather constant trend prior to the summer of 1992 (see Exhibit 5). Also, the OWMP identifies this source as a producer of 0.25 mgd, which is the applicant’s request. Staff has requested reasons for this and BWS may explain reasons for this at the Commission meeting.

f. KAHUKU BATTERY (Well Nos. 4057-15 & 16) - The well site was inspected and verified on October 19, 1993.

The first issue is that there are possibly seven (7) active wells within a mile radius of the wells. Six (6) of these active wells have been filed by Campbell Estate for water use permits and one is to a private individual who has not filed for a water use permit. Since applicant’s wells have been active for over a decade, adverse impacts have already occurred. No objections to this application have been filed by the other well owners.

The second issue is that the BWS request for 1.000 mgd for these wells seems high compared to the current actual use (see Exhibit 5). The general trend in pumpage has been relatively constant since 1990 at roughly 0.55 mgd, which was the estimated use in the OWMP. The current 12-MAV is 0.546 mgd as of September 1993. Therefore, the current 12-MAV seems reasonable for existing use from this well.


g. WAIALEE I (Well No. 4101-07) - The well site was inspected and verified on October 19, 1993.

The first issue is that there are possibly two (2) other active wells owned by private individuals within a mile radius of the well. Neither has submitted applications nor objections to this application. One is downgradient of the applicant’s well but since the applicant’s well is near the ocean and has been in use since 1945, adverse impacts have already been felt. The other well has reported use in the OWMP but, again, has not submitted an application. Staff will be following up on this matter.

The second issue is that the BWS request for 0.500 mgd for these wells seems high compared to the current actual use (see Exhibit 5). The general trend in pumpage has been relatively constant only varying between 0.30 and 0.37 mgd since 1988. The OWMP estimated 1990 pumpage as 0.33 mgd and the current 12-MAV is 0.339 mgd as of September 1993. Therefore, the current 12-MAV seems reasonable for existing use from this well.
h. WAIALEE II (Well No. 4101-08) - The well site was inspected and verified on October 19, 1993. The first issue is the same as the first issue of the previous application since these wells are in close proximity.

The second issue is that the BWS request for 0.750 mgd for these wells seems high compared to the current actual use (see Exhibit 5). The general trend in pumpage has been relatively constant only varying between 0.40 and 0.47 mgd since 1988. The OWMP estimated 1990 pumpage at 0.46 mgd and the current 12-MAV is 0.411 mgd as of September 1993. Therefore, the current 12-MAV seems reasonable for existing use from this well although it is unusual that the use is at a low point even though should be near a peak since September is the end of the summer period of weather.

3. HANOHANO ENTERPRISES (Well No. 3553-01) - This application was field verified on October 4, 1993. No significant changes from the original registration field investigation on October 18, 1990 were found.

The first issue with this application is that the existing end use is less than that specified in the application. The application requested both existing and future use for 70 acres of aquaculture and 250 units of future elderly housing. The applicant currently has a total of about 12 acres of active aquaculture; 11.5 acres in aquaculture for mullet and tilapia; and less than 0.5 acres for live food and tropical fish cultivation. Actual use has not been reported to the Commission. Based on the Oahu Water Management Plan 12 acres of aquaculture would use approximately 0.432 mgd. The OWMP estimated the use at 0.70 mgd in 1990. Staff would like to consider comments from ADP in addition to the OWMP to make a better assessment of actual need of the aquaculture. Additionally, the BWS has commented that the requested amount may be in excess of the aquifer’s sustainable yield and that water should be recycled through ponds for more efficient use.

The second issue is that of effects on Punaluu Stream. Discharge from this use flows into Papakoko-Haleaha Stream and since this use has been ongoing for the last 10 years, the impacts have already been felt. DAR has commented that Punaluu Stream is one of the highest quality habitats for native species on Oahu. If requests are for future increases in pumpage then DAR has requested confirmation that flows into Punaluu Stream will not be impacted.

The third and hardest issue to resolve is the future use requested for the 250 unit elderly housing development. Such a development would reasonably require about 0.100 mgd according to county standards (250 x 400 gpd for multi-family low-rise). However, there is no zoning for this project. The applicant has been working with the State Department of Health (DOH) and the County Department of Housing and Community Development (DHCD) in obtaining a 201E exemption to normal zoning requirements for affordable housing. However, the applicant is caught in a catch-22 situation whereby the county has required the applicant to provide evidence that water will be available for this project yet the Commission will not approve future projects without appropriate county zoning. Staff has informed the county of the overall situation of the Koolauloa Aquifer System and that it appears water may be available as early as January 1994 if other existing uses are established by the Commission. The applicant has indicated that they are willing to cutback on their existing aquaculture water use to make water available for their project, if necessary. Since the project is for the beneficial use of affordable housing, the applicant is seeking a special 201E exemption from zoning requirements, comments from DAR and BWS, and the existing use impacts are probably established in the area, staff does not foresee a problem allowing this special case to use a future use within the existing use limits. However, staff also realizes that if the Commission were to approve a permit allowing future use in this manner it may be construed as "water-banking" the ground water by a private entity.

4. NIHIPALI (Well No. 3855-12) - This application requires a field investigation.

5. KAIO (Well No. 3956-07) - This application was originally verified from a field investigation on October 10, 1990. No significant changes in the existing portion of the request were found. However, the applicant does include a future use request.
The first issue with this applicant is that the requested amount of water for the existing use is high. The field investigation found water consumption on a total of 0.5 acre for taro, banana, and ti leaf, livestock, and one (1) tank of tilapia. No reports of water use have been made by the applicant making it difficult to estimate actual use and need. However, the 1990 field investigation measured flow from the artesian source at 12 gpm or 17,280 gpd. Assuming taro to be the most water intensive cultivation, the Oahu Water Management Plan for 0.5 acres of taro would require 3,000 gpd. Additionally, the field investigation found that the tank with tilapia required an additional 3,000 gpd. Assuming the needs of the few livestock does not exceed 1,000 gpd, the justified need under existing conditions would be about 7,000 gpd.

The second issue is that part of the request is for future uses for Kaio Flowers I & II. The total acreage of these future uses will be about another 0.5 acre for various floriculture. Under the Oahu Water Management Plan this future need would require an additional 3,700 gpd. Since this is such a small use, staff does not see a reason to deny the applicant’s request but rather suggests deferral on the future use portion until existing uses are established in the area.

RECOMMENDATION

Staff recommends:

1. For all approved water use permits, that the Commission add the special condition that the applicants may continue their existing use of ground water within the limits approved by the Commission, and the actual issuance for the interim permit shall not be a reason to interrupt their existing uses.

2. That the Commission approve the issuance of interim water use permits to the Estate of James Campbell for the reasonable and beneficial existing salt water aquacultural needs according to Table 2 and their corresponding described uses subject to the standard water use permit conditions listed in Attachment B.

3. That the Commission approve the issuance of interim water use permits to the Estate of James Campbell for the reasonable and beneficial existing needs according to Table 3 and their corresponding described uses subject to the standard water use permit conditions listed in Attachment B.

4. That the Commission approve the issuance of interim water use permits to the Honolulu Board of Water Supply for the reasonable and beneficial existing municipal uses according to Table 4, subject to the standard water use permit conditions listed in Attachment B.

5. That the Commission approve the issuance of an interim water use permit to Hanohano Enterprises, Inc. for the reasonable and beneficial use of 432,000 gallons per day of potable water for aquaculture over 12 acres from the Hanohano Well (Well No. 3553-01), subject to the standard water use permit conditions listed in Attachment B and the following special condition:

   a. Should the applicant provide written evidence that the County DHCD approves a 201E exemption for the elderly affordable housing project then the applicant may modify a corresponding portion of their existing aquacultural use to be used by the exemption-approved project within the Commission-approved water use permit limits under recommendation 2.
That the Commission defer action on the water use permit application for George N. Nihipali, Jr. for the Nihipali Well (Well No. 3855-12).

That the Commission approve the issuance of an interim water use permit to Jacob I. Kaio, Sr. for the reasonable and beneficial use of 4,000 gallons per day of potable water for agricultural irrigation from the Kaio Artesian Well (Well No. 3956-07), subject to the standard water use permit conditions listed in Attachment B and the following special condition:

b. The future use portion of the application shall be deferred until existing uses in the Koolauloa area are established.

Respectfully submitted,

[Signature]

RAE M. LOUI
Deputy Director

APPROVED FOR SUBMITTAL:

[Signature]

KEITH W. AHUE, Chairperson
Chairperson and Members  
Commission on Water Resource Management  
December 8, 1993

WATER USE PERMIT DETAIL INFORMATION

Source Information

AQUIFER:
Sustainable Yield: 35 mgd
Existing Water Use Permits: 0.323 mgd
Available Allocation: 34.677 mgd
Total of other pending allocations: 67.433 mgd

Koolauloa System, Windward Sector, Oahu

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### Source Information

#### AQUIFER:

- **Sustainable Yield:** 35 mgd
- **Existing Water Use Permits:** 0.323 mgd
- **Available Allocation:** 34.677 mgd
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### WELL INDEX INFORMATION

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### Note

- ATTACHMENT A
Use Information

See Exhibit 3 for individual applications use descriptions.

Nearby Surrounding Wells and Other Registered Ground Water Use

Information from the registration program indicates there are possibly 84 existing wells in the Koolauloa Aquifer System. Several of these wells have been initially field checked but many of the declarants, including the larger users, have not been completely field verified. Several are not in use or are rights claims. However, the Oahu Water Management Plan estimated that the existing withdrawals from the Koolauloa Aquifer System is 13.6 mgd as of 1990.

See attached exhibits as referenced from following table.

Public Notice

See Exhibit 1.

Objections

Specific objections or comments are identified under analysis and issues portion of this submittal. The public notice specifies that an objector meet the following requirements: (1) state property or other interest in the matter; (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; (3) state all grounds for objections to the proposed permits, (4) provide a copy of the objection letter(s) to the applicant, and (5) submit objections meeting the previous requirements to the Commission according to Exhibit 1. General objections from the Native Hawaiian Advisory Council are listed in Attachment C.

Briefs in Support

Responses to objections, or briefs in support, regarding the application are required to be filed with the Commission ten (10) days after an objection is filed and, presumably, copies are served to the applicant. No briefs in support were filed with the Commission. The following briefs in support are summarized as follows:

Field Investigation

See Exhibit 4.
STANDARD WATER USE PERMIT CONDITIONS

1. The ground water described in the water use permit may only be taken from the location described, used for the reasonable-beneficial use described, and at the location described above and in the attachments. Reasonable-beneficial use means "the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest." (HAR §13-171-2).

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HAR §13-171-13 which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in section §13-171-2;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with state and county general plans and land use designations;
   f. Is consistent with county land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and 174C-101(a), HRS.

4. The ground water use approved must not interfere with surface or ground water rights or reservations.

5. The ground water use approved must not interfere with interim or permanent instream flow standards or policies as determined by the Commission. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use permit is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and staff submittal approved by the Commission at its December 8, 1993 meeting are incorporated into the permit by reference.

8. Any modification of the permit terms, conditions, or uses can only be made with the express written consent of the Commission on Water Resource Management.

9. The water use permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect water sources in quantity, quality, or both;
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June 1987, shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Homes, if applicable; or
   g. Carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

ATTACHMENT B
Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. If the ground water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure withdrawals and a monthly record of withdrawals, water-levels, salinity, and temperature must be kept and reported to the Commission on a monthly basis in accordance the Commission's September 16, 1992 action on reporting requirements;

12. The water use permit shall be subject to the Commission's periodic review of the applicable aquifer's sustainable yield. The amount of ground water use authorized by the permit may be reduced by the Commission if the sustainable yield of the Koolauloa Aquifer System, or relevant modified aquifer, is reduced;

13. The water use permit may not be transferred or the use rights granted by this permit sold or in any other way alienated. Pursuant to HAR §13-171-25 and the requirements of Chapter 174C, the Commission has the authority to allow the transfer of the permit and the use rights granted by the permit in a manner consistent with HAR §13-171-25. Any such transfer shall only occur with the Commission's prior express written approval. Any sale, assignment, lease, alienation, or other transfer of any interest in this permit shall be void.

14. The use(s) authorized by law and by the water use permit do not constitute ownership rights.

15. The permittee shall comply with all applicable laws, rules, ordinances, and other agencies’ permits and conditions pertaining to water use or the water resource.

16. The permittee shall prepare and submit a water shortage plan within 30 days of issuance of the permit to assist the Commission in fulfilling HAR §13-171-42(c). The permittee’s water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Koolauloa Ground Water Management Area.

17. The water use permit granted shall be an interim water use permit, pursuant to HAR §13-171-21. The final determination of the water use quantity shall be made within five years of the filing of the application to continue the existing use.

18. The water use permit shall be issued only after AG review.

19. The water use permit shall be subject to the Commission’s establishment of instream standards and policies to Stream Protection and Management (SPAM), as well as legislative mandates to protect stream resources.

ATTACHMENT B
MEMORANDUM

TO: Rae M. Loui, Deputy Director
FROM: David L. Martin, Water Project Manager
Native Hawaiian Advisory Council


DATE: November 26, 1993

NHAC hereby requests additional information from COWRM and the Board of Water Supply (BWS) explaining various sections of the Board's water use permit applications. These sections include 1(b) Landowner, 8 Quantity of Water Requested, and 15(a) Impact on sustainable yield.

1(b) LANDOWNER - Please provide a list of subject BWS well sites which were obtained from State lands via executive orders including the title status of those State lands.

8 QUANTITY OF WATER REQUESTED - Please provide information showing the amount of water quantity requested in relation to the 12 month moving average and the 5 year average use.

15(a) IMPACT ON SUSTAINABLE YIELD - Please provide information comparing the total existing, planned and proposed uses of water with the sustainable yield of each aquifer.

Please note that I have attached all memoranda forms dated October 27, 1993 covering BWS's permit applications. At this point I am unable to complete a review of these applications without additional information, therefore I am requesting an extended review period. Your immediate attention with this matter is appreciated, I await your response.

ATTACHMENT C
1993 November 26

TO: State of Hawaii Commission on Water Resource Management

SUBJECT: COMMENTS AND OBJECTIONS RE: WATER USE PERMIT APPLICATIONS WAIMANALO, KOOLAUPOKO, KAHANA, AND KOOLAULOA GROUND WATER MANAGEMENT AREAS

Public Notice Undated, Published November 3 & 10, 1993
Send written objections by November 26, 1993

I. COMMENTS

a. Hanohano Well No. 3553-01

4. SOURCE TYPE is not indicated.

10. PROPOSED USE: Irrigation is not indicated.

14. POTENTIAL RESTRICTIONS ON WATER USE:

(e) Other: Since COWRM may only allocate water to projects which have received the necessary land use, county, and community plan approvals, the application form should include a table allowing applicants to illustrate their degree of compliance with these requirements.

15. REMARKS, EXPLANATIONS: A table illustrating the estimated breakdown between quantities of existing and new water use among agriculture, aquaculture, and domestic should be provided.

TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER

The final column, "% OF TOTAL TO BE USED OVER NEXT 4 YEARS," should be revised for accuracy.

b. PWS Applications

7.(c) County Zoning is not described.

10. QUALITY OF WATER REQUESTED: Potable is not indicated on some applications.

11. PROPOSED USE: Municipal is not indicated.

12. NUMBER AND TYPE OF UNITS TO BE SERVED: Statistics for the Windward Oahu System should be given.

ATTACHMENT D
II. OBJECTIONS

Native Hawaiian Advisory Council, Inc. (NHAC) represents persons with property interests in lands within the hydrologic units of the sources of water supply and/or who will be directly and immediately affected by the proposed water uses. Furthermore, NHAC advocates the enforcement of constitutional, statutory, and common laws which require consideration and accommodation of various appurtenant, riparian, correlative, and Hawaiian water rights, as well as other Hawaiian rights, in the Water Commission’s (COWRM) allocation process. Under the public trust doctrine imposed upon Hawaii water law by the State Constitution, common law, and judicial precedent, water resources are owned by the public. Thus all people have property interests in all water sources and may be admitted to any and all proceedings involving their disposition, regulation, and management.

a. The following table identifies selected NHAC clients with property and other interests (distinct from those of the general public) in the subject water management areas on whose behalf subsequent general and specific objections are filed. NHAC reserves the rights to amend this table to later include other affected clients.

---

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<td>Hashi, David</td>
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b. General Objections to All Permit Applications

(1) Property or Other Interest in the Matter

Refer to Table in II.a. above.

(2) Questions to which Objections are Taken

(a) Questions of Procedure

NHAC objects to COWRM's apparent plan to process water use permits applications on a first-come, first-served basis. In order to fulfill the legislative intent of water management area designation, a comprehensive view of existing, planned, and proposed water uses and water rights in each hydrologic unit is required. COWRM should merely collect applications during the one year post-designation application period. Then after the application period is closed, and surveys of water rights and reserved water uses are completed, COWRM can assess and evaluate each permit application with regard to competing applications for existing and new uses; reserved, declared, and certified water uses; instream flow standards; water rights; and the overall water situation in each hydrologic unit. Without such a process, COWRM will not be able to meet Water Code requirements for evaluating competing uses within the frameworks of the "reasonable and beneficial" standard, "Public interest," and other legally-imposed constraints.

In response to COWRM's letter of November 17, 1992, we further studied Hawaii Administrative Rules (HAR) Title 13, Chapter 171 and still find no explicit or implicit language supporting your contention that processing water use permits as we suggest is inconsistent with these rules or would require rulemaking. NHAC attended "... numerous Commission presentations and workshops on existing WMAs and the newly designated WMAs at which we [COWRM]
presented and provided various handouts which show the WUPA processing procedure" (emphasis added). To our knowledge COWRM never formally adopted as policy any of the various procedures it now employs in water use permit application processing. The rules are vague, ambiguous, and incomplete - in this context it seems that COWRM creation of different policies for different WMAs is inappropriate. It seems that hearings are required to discuss clarification and of the rules and unification of the policies.

Two distinct classes of WMAs will emerge if COWRM proceeds on a first-come, first-served basis in some WMAs and with a comprehensive management review of all uses and applications in other WMAs. In the first case, determination of whether competing WUPAs exceed the available supply becomes a second tier of the designation process. NHAC believes such a management regime requires rulemaking. Granting WUPAs on a first-come, first-served basis circumvents a number of the conditions for Water Use Permit issuance, particularly if specific reservations for Hawaiian Homelands beneficiaries are not previously implemented and allocations to county boards of water supply for municipal purposes are not established.

While NHAC recognizes there is a rule that COWRM act upon permit applications within 90 or 180 days [HAR 13-171-19(c)] we do not see this as a constraint to the approach we are suggesting. COWRM records over the last six years shows that "action" includes deferral of decision making until information needs are met, as well as categorization of applications to facilitate future decision making.

(b) Questions of Fact

The permit application information distributed by COWRM for comment should also include the results of COWRM's field verification of declared water uses and should compare the quantity of water requested with the current 12 month moving average and the post-Water Code long-term (about 6 year) average water use. It should also show how total applicant existing, planned, and proposed water uses in the subject WMA compare with overall WMA totals and with sustainable yield. This factual information is critical in comprehensively evaluating reasonable and beneficial use and public interest in the WMA. This information, which is usually not presented by COWRM until the decision-making stage of the process, must be available earlier so that public comment and objection can take it into account.

(c) Questions of Law

COWRM appears not to be in compliance with HAR 13-171-11(b), which implies that COWRM will determine water supply allocated to the county boards of water supply in each water management area. These gross allocations to the counties, as well as gross reservations to
Hawaiian Home Lands (required under Act 325), must be defined prior to any new water use permitting to other parties.

In a previous response to this objection, COWRM (March 3, 1993) stated that "... allocations granted to the county water systems generally allow the county departments of water supply to distribute water within their system and within the limits imposed by allocation. This does not imply that the Commission will or must determine the final and gross water amounts to be allocated to the county water supplies." This reasoning seems confused - if COWRM is the agency responsible for "the limits imposed by allocation," then it should "determine the final and gross water amounts to be allocated to county water supplies."

Further analysis of HAR 13-171 reveals that:

1. Permit applications for existing uses only compete with other permit applications for existing uses [HAR 13-171-14(c)].

2. Competition between permit applications for existing uses is subject to public hearing requirements [HAR 13-171-14(c)], while competition between permit applications for new uses is not (HAR 13-171-16). For existing uses, the allocation between competing applications is determined via the hearing, while for new uses the allocation seems to be subject to dispute resolution and public interest balancing tests. The rules are silent about competition between permit applications for existing uses, new uses, declared uses, certified uses, water reservations, and instream flows.

3. Existing uses are assumed reasonable if less than 25,000 gallons per month. If more than 25,000, it is still reasonable and beneficial if no objections are filed [HAR 13-171-14(b)], but is subject to public hearing if objections are raised. Reasonable and beneficial is only one of the 6 things the applicant must establish under HAR 13-171-13, which all apply equally to existing and new users.

4. There appear to be no guidelines for reasonable and beneficial determinations of new uses, no requirements for public hearing regarding same, and no vehicle for requesting such public hearing.

The existing rules do not appear to place any restrictions on simultaneous processing of applications for existing and new ground water uses, along with certification of declared surface water uses. They do not expressly disallow direct consideration of applications for existing ground water uses within the context of new ground water uses and declared surface water uses, even though some different procedures apply. The inclusion of "public interest" consistency requirements [HAR 13-171-13(4)] seems to give COWRM enough latitude for such processing, notwithstanding other intricacies of rule.
Questions of Policy

1. Procedure

We have been repeatedly told by the Attorney General that water management area designation creates a "clean slate" and a "level playing field." As such, from the moment of designation we cannot consider any existing water use to be reasonable and beneficial or in the public interest until such determinations are formally made by the Water Commission.

The procedure being followed in Windward Oahu and Molokai WMA is inconsistent with that employed in Pearl Harbor WMA. This is confirmed in COWRM's letter of March 3, 1993 which explains that "In its February 17, 1993 decision regarding Molokai and Windward water use applications, the Commission on Water Resource Management will defer action on all new water use permit applications until July 1993" (implying that applications for existing uses will be processed first and separately). "In the Pearl Harbor area, the Commission is reviewing all currently filed requests together: existing, planned, and proposed uses." COWRM has not explained why the policies are different in different WMA.

Given the vagueness of the administrative rules governing the process, COWRM should provide a clear explanation for these differing policies. Also note that neither of the two procedures described above considers other issues water rights, water reservation, instream flow, and certification of declared surface water uses discussed on our objections. COWRM has not explained why these issues should not be comprehensively considered in ground water use permit application processing.

On March 3, 1993 COWRM also wrote that "... a survey of all water rights and reservation issues cannot be settled fairly or adequately within such a short time period. Because of this, the Commission plans to include conditions in water use permits which will expressly allow for quantity reduction in permits if and when it may be required."

The resolution of water rights and reservations and other issues must not be held hostage to a perceived need to issue permits for existing water uses. Now is the proper stage in the process for examining trade-offs between existing ground water uses, water rights, water reservations, surface water uses, instream flows, and streamflow restoration. To further postpone such examination merely continues the entrenched water allocation policies that the Water Code seeks to avoid, and unnecessarily multiplies the number of proceedings which must be held in the future to deliberate downsizing of existing uses to accommodate new uses.
2. Public Notice

We question if all water use declarants, water source registrants, and water use permit applicants in the affected areas have been served direct notice of the pending applications and the deadline for filing objections? Without such notice, these persons cannot be expected to have timely knowledge of pending applications, much less file timely objections. The Water Commission, through its Nakata Subcommittee, has acknowledged this reality and recommended implementation of a process for direct notification of affected parties.

In previously responding to similar concerns, Rae M. Loui wrote on August 12, 1993 that "The Nakata subcommittee did not recommend notices be sent to all nearby declarants." We recall that the subcommittee did recommend that registries of declarants placed in various categories be maintained, and reason that a logical cause of the need for such maintenance is to allow the Commission to easily identify declarants using and/or claiming interests in various water sources. Once declarants are identified, it is only fair that they be directly notified of proposed actions potentially affecting their interests.

Mrs. Loui also wrote that "... given the 200+ permits we have pending and the lack of computer programming to easily identify nearby declarants, it would be unmanageable." "These are my thoughts only and do not represent the policy of the Commission."

With regard to the 200+ permits, in many cases numerous permit applications have been filed by a single applicant in a single water management area, so that individual notices for each of these numerous applications could be combined into a single notice. Also, if COWRM would adopt our recommendation for a finite, repeating application window, notification tasks would be more easily accomplished.

COWRM's existing WATRDAT database has the capability to be programmed to easily identify nearby declarants. The major task remaining is to allow sorting and cross-indexing (ground & surface water) of records by water source rather than by declarant name or TMK number. NHAC rejects COWRM arguments that the notification requirements we recommend are "unmanageable," and suggest that COWRM place a high priority on implementing the necessary computer programming, preferably of a type which allows integration with the State GIS framework. NHAC is available to assist with this work.
3. Public Comment and Objection

There are persistent ambiguities and inconsistencies concerning the procedures and deadlines for filing comments on and objections to water use permit applications which must be resolved in order to institute a clear and fair process.

a. HAR 13-171-18

(a) "Within ten working days after the last public notice of the pending permit application, a party may file with the commission, written objections to the proposed permit and a brief in support of such objections."

This implies that in order to be valid, objections must be received at COWRM on or before the tenth working day after the last public notice.

"Such party shall serve copies of the objections and brief upon the applicant."

This does not specify when the applicant must be served.

(d) "The support brief shall:
   1) Answer specifically the points of procedure, fact, law, or policy to which objections were taken; and
   2) State the facts and reasons why the permit should be approved."

This conflicts with (a), which implies that briefs are to be written in support of objections, not in support of applications [as suggested in (d)].

b. Public Notice

The standard Public Notice of water use permit applications directs that interested persons "Send written objections by" a specific date (the tenth day after the last public notice) to COWRM and the applicant. This implies that objections should exhibit a postmark or other evidence of being "sent" on or before that date.

c. COWRM Review and Comment Solicitation

The standard memorandum circulated by COWRM with water use permit applications requests ("please") that a form indicating the level of review of the application be returned by a specific date (ten working days after the last public notice), implying that the form should be received at the COWRM office on or before that date. While the form has a space for indicating "no objections," it has no space for indicating "Objections attached."
This form does not appear to be the subject of any rule, nor does it appear to establish a strict deadline for returning the form. In particular, it allows a reviewer to request additional information and an extended review period for a particular water use permit application. In practice, COWRM could receive a form requesting additional information and an extended review period on the same day that the Public Notice established as the deadline for sending (evidenced by postmark or other evidence of initiating transmittal) objections and that HAR established as the deadline for filing objections at COWRM (evidenced by receipt at COWRM). Yet there appear to be no COWRM procedures for responding to requests for extended review, much less for notifying applicants and other interested parties if these requests are indeed granted.

3. Regulatory and Management Coordination

We are increasingly concerned about the lack of clear guidelines for timing, sequencing, and coordinating COWRM permitting processes with environmental review processes conducted under other authorities (including HRS 343, BLNR Conservation District Use permitting, DOH 401 and NPDES, and County grading and drainage ordinances).

(3) Grounds for Objections to Proposed Permits

As evidenced by the above discussions, proposed permits should be deferred until the conclusion of public hearings because:

1. COWRM procedure for processing the permit applications is not in compliance with the Water Code and its Administrative Rules.

2. COWRM has not provided adequate factual background for public review of, comment upon, and objection to the proposed permits.

3. Laws governing permit application processing are vague, contradictory, and incomplete.

4. COWRM policy governing permit application processing is vague, contradictory, inconsistent, incomplete, and excessively informal.

5. Current COWRM policy and procedure does not promote or allow for comprehensive, conjunctive, and concurrent processing of water use permit applications, water use declarations, instream flow standard and sustainable yield concerns, and water rights and water reservation issues.
c. General Objections to BWS Permit Applications

(1) Property or Other Interest in the Matter
Refer to Table in II.a. above.

(2) Questions to which Objections are Taken

(a) Questions of Procedure
Refer to b.(2)(a) above.

The procedure employed in processing this batch of BWS permit applications is inexplicably different from that previously employed in Pearl Harbor GWMA. COWRM has a duty to coordinate ground water use permitting with surface water use certification, instream flow standard and sustainable yield reevaluation, and water rights and water reservation determinations.

(b) Questions of Fact
Refer to b.(2)(b) above.

Permit application line 1.(b) consistently indicates BWS as "LANDOWNER OF SOURCE." It has been common procedure for BWS to acquire well sites through set aside of State lands by executive order. NHAC has requested in a separate letter that additional information on the title history of each well site be provided so that we can determine which well sites occupy ceded lands.

(c) Questions of Law
Refer to b.(2)(c) above.

NHAC alleges that the practice of transferring ceded lands to BWS by executive order subverts and circumvents the water licensing requirements of HRS, in some cases avoiding necessary compensation to the Hawaiian Homes Commission and Office of Hawaiian Affairs for use of ceded lands trust resources.

(d) Questions of Policy
Refer to b.(2)(d) and c.(2)(b) above.

(3) Grounds for Objections to Proposed Permits

1. All of the subject BWS applications indicate on line 15(c) that applicant does not know if its existing uses affect Hawaiian Home Lands uses. Therefore applicant has not established that these proposed uses of water conform with the requirements of HAR 13-171-13 (1)-(5) and will not affect Hawaiian Home Lands uses.
Thus COWRM may not issue permits until public hearings are held to determine what portion, if any, of existing BWS uses should be abandoned in favor of Hawaiian Home Lands uses.

2. All of the subject BWS applications fail to describe potential restrictions on use arising from effects on future legal uses such as planned agricultural uses and activation of uses guaranteed by appurtenant, riparian, and correlative water rights. Therefore applicant has not established that these proposed uses of water conform with HAR 13-171-13 (1), (2), and (4)-(6), and COWRM may not issue permits until public hearings are held to determine what portion, if any, of existing BWS uses should be abandoned in favor of future legal uses.

3. All of the subject BWS applications indicate on Line 15.(a) that "Impact on Sustainable yield" is that of an "Existing use." Existing uses do impact sustainable yield characteristics, notably the lowering of equilibrium head arising from increased sustainable yield. Because of the "clean slate" and "level playing field" effect of designation, COWRM may not issue water use permits until public hearings are held to assess the impacts of changes in sustainable yield upon equilibrium heads and localized water levels, and to determine what portion, if any, of existing BWS uses should be abandoned in favor of lowering sustainable yields.

4. Any number of the subject BWS applications may involve water sources sited on ceded lands that were transferred by executive order from the State to BWS. Wherever this is the case, COWRM may not issue water use permits until public hearings are held concerning the avoidance of water licensing requirements and lack of County compensation to the Hawaiian Homes Commission and OHA for its use and extraction of ceded lands trust resources.

5. None of the subject BWS applications indicate how total existing, planned, and proposed BWS uses compare with other existing, planned, and proposed uses and sustainable yields. Such information is critical to complete and fair assessment of compliance with water use permit conditions set forth in HAR 13-171-13. Thus COWRM may not issue permits until hearings are held to determine the overall water use permit application and planning situation for each aquifer, and to assess what shares of their sustainable yields could be allocated to BWS and other major water users.

d. Specific Objections to Specific Applications

(1) Property or Other Interest in the Matter

Refer to Table in II.a. above.
(2) Questions to which Objections are Taken

(a) Questions of Procedure
Refer to b. and c.(2)(a) above.

(b) Questions of Fact
Refer to b. and c.(2)(b) above.

WAIMANALO TUNNELS

We believe that portions of the tunnels may be situated on and/or underly Hawaiian Home Lands. We are not aware of any agreements between BWS and HHC governing BWS use of the sites and resources.

WAIMEHE WELLS

Line 16 of the application states that the well "Has not operated since court mandated flow of 2.7 MGC in Waihee Stream under appeal." This contradicts Line 15(a) of the application and the Public Notice which indicate existing use. When exactly did use of this source cease?

(c) Questions of Law
Refer to b. and c.(2)(c) above.

(d) Questions of Policy
Refer to b. and c.(2)(d) above.

(3) Grounds for Objections to Proposed Permits

1. In Ko‘olaupoko GWMA, the following BWS applications indicate on line 15.(b) that BWS existing uses affect instream flow standards:

Luluku Tunnel, Haiku Tunnel, Haiku Well, Kahaluu Tunnel, Waihee Tunnel, Waihee Inclined Wells, Waihee Wells.

Therefore applicant has not established that these proposed uses of water conform with the requirements of HAR 13-171-13 (1)-(4), and COWRM may not issue water use permits until public hearings are held to determine what portions, if any, of existing BWS uses should be restored to instream flows.
2. In Ko'olaupoko GWMA, the following BWS applications indicate on line 15.(d) that BWS existing uses affect other existing legal uses:

Haiku Tunnel, Waihee Tunnel, Waihee Inclined Wells, Waihee Wells.

The following BWS applications indicate on line 15.(d) that applicant does not know if BWS existing uses affect other existing legal uses:

Luluku Tunnel.

Therefore applicant has not established that these proposed uses of water conform with the requirements of HAR 13-171-13 (1)-(4), and COWRM may not issue water use permits until public hearings are held to determine what portions, if any, of existing BWS uses should be abandoned in favor of other existing legal uses.

3. If portions of the Waimanalo tunnels are sited on or underlay Hawaiian Home Lands, and no agreements exist between BWS and HHL concerning site use and resource extraction, then a water use permit should not issued until public hearings are held and the land use situation is resolved.

4. If Waihee Wells has not been used since the 1989 deadline for filing declarations of water use, a water use permit may not be issued until the application has been reprocessed as an application for a new use.

III. SUMMARY

While COWRM, staff, and the public have participated in discussions about water use permit application processing, there have been no formal declarations of COWRM permit application processing policy, and different procedures are being applied in different WMAs. It appears that COWRM staff and NHAC are advocating different interpretations of the Administrative Rules governing the water use permitting process, and that public hearings are needed to help the Commissioners decide what kind of interpretation best serves the purposes of the Water Code and the public interest.

We therefore state our overall objection to current COWRM procedures and policies regarding water use permit issuance, in a large part because they do not yet exist. We reserve the right to submit additional specific objections to specific permit applications at later dates, since present information about the overall water management context of such permit applications is insufficient for allowing comprehensive, fair assessments.
NHAC requests that COWRM postpone decision-making on all water use permit applications for the subject Water Management Areas until:

1) public hearings about COWRM procedure and policy in processing water use permit applications are concluded and administrative rules governing these processes are revised;

2) necessary assessments of water rights, reserved water uses, surface water uses, and instream flow standards have been completed;

3) these assessments, issuance of water use permits, and certification of declared water uses are woven into an integrated water management decision-making process.

We must implement water use permit application processing methodologies that avoid the continuation of first-come, first-serve permitting. First-come, first-serve water use permit processing contradicts the very heart of the intent of water management area designation. It negates COWRM's effort to involve the community in the water allocation process because it diffuses rather than concentrates the arena of public participation. We cannot have comprehensive water resource management without comprehensive evaluation of water use scenarios.

A finite repeating application period for water management area allocations should be established, after which all applications received in each period can be comprehensively reviewed by a Windward Working Group and COWRM staff for processing recommendations.

NHAC requests that a Windward Working Group be formed similar to the Molokai Working Group in order to recommend reforms to the current piece-meal process of establishing reasonable and beneficial use and resolutions of public interest balancing tests for Windward water.

When existing surface water users have not even been afforded the opportunity to obtain certification, it is extremely unfair for new and existing groundwater uses to have permit applications processed and permits issued (permits which are solid allocations of water and recognition of rights to use that water) when people who have surface and instream uses aren't under designation, are not field verified (so the Commission has no baseline data on what these uses and instream flows might be that they're supposed to protect), and there is no certificate of "reasonable and beneficial" water use. A declaration of water use is an application for certification. One should be able to obtain and use certification in playing off against water use permit applications for groundwater because it is acknowledged in the Code that a certificate does have some meaning and it is something that one should be presenting when getting into a dispute or even a legal battle over water.
At the very least there needs to be some kind of concurrent processing of water use permit applications and declared uses of surface waters. It should be done in a comprehensive way so that everything is on the table at once, even though the specific processes, approvals, and permits are different.

NHAC also supports and concurs with objections filed by Charles Reppun and Windward Neighborhood Boards.

Mahalo,

David L. Martin, Water Claims Manager

pc: Honolulu Board of Water Supply
Kahana Valley State Park
Kualoa Ranch, Inc.
Hanohano Enterprises, Inc.
## WATER USE PERMIT APPLICATION NOTICE STATUS REPORT 12/01/93

### ISLAND OF OAHU

**Aquifer System: KOOLAUOLA**

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67 Applications Totaling 67.429 mgd
**WATER USE PERMIT INDEX REPORT 11/29/93**

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4 Permits Totaling 0.323
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**Exhibit 2**
| Aquifer System: KOOLAULOA |

| WATER USE PERMIT APPLICATION USE STATUS REPORT 12/01/93 |

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Aquifer System: Koolaualoa

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67 Applications Totaling 67,429
## ISLAND OF OAHU

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**ZONE 5**

PENDING WATER USE PERMIT APPLICATIONS FIELD INVESTIGATION STATUS REPORT 12/01/93

EXHIBIT 4
INDEX KEY TO USE (6/93)

FRESH WATER WELLS
- BLUE -- IN USE
- GREEN -- NOT IN USE

SALT WATER WELLS
- PURPLE -- IN USE
- BROWN -- USED AS BACKUP
- YELLOW -- NOT IN USE
Well No. 3453-06, 07

radius = 3 miles

EXHIBIT 5
BWS PUMPAGE - PUNALUU WELLS III
WELL NOS. 3453-06,07

MONTHLY VALUES

12-MAV

REQUESTED AMOUNT

MONTH (Latest Data 9/93)
Well No. 3553-03,04,06 to 08
BWS PUMPAGE - PUNALUU WELLS II
WELL NOS. 3553-03 TO 08; 3554-03

MONTHLY VALUES  12-MAV  REQUESTED AMOUNT
BWS PUMPAGE - HAUULA WELL
Well No. 3655-01

Month (Latest Data 9/93)

- MONTHLY VALUES
- 12-MAV
- REQUESTED AMOUNT
CAMPBELL ESTATE PUMPAGE
PUMP 1 (Well No. 4057-01)

Month (Latest Data 10/93)

Pumpage (mgd)

MONTHLY VALUES  12-MAV  REQUESTED AMOUNT
CAMPBELL ESTATE PUMPAGE
PUMP 12 (Well No. 4057-07)

MONTHLY VALUES
12-MAV
REQUESTED AMOUNT

JAN 92 JAN 93
Month (Latest Data 8/93)

Pumpage (mgd)
CAMPBELL ESTATE PUMPAGE
SUGAR MILL PUMP (Well No. 4057-11)

MONTHLY VALUES — 12-MAV — REQUESTED AMOUNT

Pumpage (mgd)

JAN 92 JAN 93

Month (Latest Data 10/93)
BWS PUMPAGE - KAHUKU WELLS
Well Nos. 4057-15,16

Month (Latest Data 9/93)

Pumpage (mgd)

- MONTHLY VALUES
- 12-MAV
- REQUESTED AMOUNT
CAMPBELL ESTATE PUMPAGE
PALMER G.C. WELL (Well No. 4100-01)

MONTHLY VALUES  12-MAV  REQUESTED AMOUNT

Month (Latest Data 10/93)
BWS PUMPAGE - WAIALEE WELL I
Well No. 4101-07

MONTHLY VALUES  12-MAV  REQUESTED AMOUNT
Well No. 4159-01
CAMPBELL ESTATE PUMPAGE
PUMP 2 (Well No. 4159-01)

MONTHLY VALUES

REQUESTED AMOUNT

JAN 93

Month (Latest Data 10/93)
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
    Department of Hawaiian Home Lands

                      Dr. John C. Lewin, M.D., Director
                      Department of Health

                      Mr. Clayton H. W. Hee, Chairperson
                      Office of Hawaiian Affairs

                      Mr. Kazu Hayashida, Manager & Chief Engineer
                      Honolulu Board of Water Supply

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

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: Luis Alvaro, Phone: 958-9150

( ) We have no comments
( ) We have no objections
X Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Date: 10/18/93
October 22, 1993

The Honorable Keith W. Ahue  
State of Hawaii  
Department of Land and Natural Resources  
Commission of Water Resource Management  

Attn: Ms. Rae Loui, Deputy  

Dear Mr. Ahue:  

We have received the following water permit applications. Thank you for the opportunity to review these applications:

<table>
<thead>
<tr>
<th>Applicant Name</th>
<th>Water Mgt. Area</th>
<th>Amount Requested (gpd)</th>
<th>Tax Map</th>
<th>Well Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campbell Estate</td>
<td>Koolauloa</td>
<td>300,000</td>
<td>5-6-03:32</td>
<td>4258-08</td>
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<tr>
<td>Campbell Estate</td>
<td>Koolauloa</td>
<td>5,000,000</td>
<td>5-6-03:161</td>
<td>4258-10</td>
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<tr>
<td>Campbell Estate</td>
<td>Koolauloa</td>
<td>3,000,000</td>
<td>5-6-03:161</td>
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</tr>
<tr>
<td>Campbell Estate</td>
<td>Koolauloa</td>
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<td>5-6-03:161</td>
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<td>5-6-03:161</td>
<td>4258-16</td>
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<tr>
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<td>5-6-03:161</td>
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<td>5-6-03:161</td>
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<td>Koolauloa</td>
<td>3,000,000</td>
<td>5-6-03:161</td>
<td>4258-07</td>
</tr>
</tbody>
</table>
Hon. Keith W. Ahue
October 18, 1993
Page 2

After careful review of the above water permit applications, we see with the gravest concern the recent proliferation of water permit applications. There is a pattern of filing multiple water permit applications which at the end add up to inordinate amounts of water. The above water permit applications filed by Campbell Estate support our concern. On September 24, 1993, Campbell Estate filed five water permit applications for a total of 18.6 mgd. At that time the Water Commission asked us to review these applications and our response was that OHA was truly concerned over the monopoly of a single user over more than one half of the sustainable yield of the Koolauloa aquifer (copy of letter attached). On September 29, 1993, Campbell Estate filed 12 more water permit applications for an additional amount of 26 mgd. So far, our records indicate that during the last five months or so, Campbell Estate has filed water permit applications for a total of 49 mgd. If granted all these water permits, the Campbell's water withdrawals will: (i) exceed the sustainable yield of the Koolauloa aquifer by 14 mgd, (ii) be 49% of the sustainable yield for all windward aquifers, (iii) be 11% of the sustainable yield for all aquifers in Oahu, and (iv) be 27 times greater than the much publicized water reserves for the Department of Hawaiian Home Lands.

Overall, we foresee several adverse impacts on water availability if the Campbell's water permits are granted. These are: (i) the sustainable yield of the aquifers in West Oahu will certainly be greatly affected by this sizable withdrawal, (ii) the access and sole use of half of West Oahu’s sustainable yield by one single user will preclude equal usage by other users, particularly native Hawaiians, and (iii) a monopoly on water use will likely lead to wastage and misuse. In view of the above concerns and the lack of regulatory mechanisms for water allocations, OHA strongly urges the Commission to halt Campbell’s water permits until rules and regulations for water permits are clearly spelled out in the upcoming State Water Code.

Sincerely yours,

Clayton H.W. Hae
Chairperson

LM:jl
enclosure
State of Hawaii  
Commission on Water Resource Management

OBJECTIONS AND COMMENTS ON APPLICATIONS FOR WATER USE PERMITS  
Public Notice dated September 22, 1993  
Send written objections by October 29, 1993

NHAC represents water source registrants, water use declarants, water use permit applicants, and others with property interest in land within the hydrologic unit of the source of water supply, as well as persons with non-property interests, all of who would be directly and immediately affected by the proposed water use.

GENERAL OBJECTIONS

We reiterate our general objections to current COWRM water use permit application processing and decisionmaking practices as previously submitted on numerous occasions (10/12/92, 10/21/92, 12/1/92, 6/22/93, & 7/8/93).

In its last set of applications, Campbell Estate proposed to continue a total of 16.225 mgd of existing use from the basal aquifer, which climbs to 26.725 mgd with this application. However, the May 1992 review draft of the Oahu Water Management Plan (p. 14) reports 1990 groundwater use of only 13.6 mgd. The 16.725 mgd of proposed use is about 51% of the 1992 revised sustainable yield of 35 mgd for the Koolauloa aquifer. Without better knowledge of existing, foreseeable, and potential competing applications for this yield, it is difficult to assess the propriety of allocating over 50% of aquifer yield to a single applicant. How many more applications have been/will be submitted by Campbell Estate for water from this aquifer? The whole picture should be up front before decision-making begins.
SPECIFIC OBJECTIONS

Wells 4158-12 & 13

The quantity requested seems high for only 18 homes and 3 office buildings. How does this compare with actual use as reported to the Water Commission?

All other wells (saltwater)

While we have no specific objections to the extraction of salt water for aquacultural use, we are concerned about the potential impacts of aquaculture wastewater effluent discharge upon water sources and water uses in the area. These water quality concerns should be listed in the applications as potential restrictions on use.

Mahalo,

David L. Martin

David L. Martin, Water Claims Manager

pc: Campbell Estate
The Honorable Keith W. Ahue  
Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources

Dear Mr. Ahue:

Withdrawal of Objections

The Department of Hawaiian Home Lands has been in a position to raise objections to various applications for water use permits, particularly in Windward O'ahu, on the basis that water reservations were yet required to meet statutory obligations to Hawaiian home lands.

Please be advised that as the proposed water reservations in O'ahu and Moloka'i water management areas are finalized, our objections for this reason are thereby withdrawn.

Warmest aloha,

Hoaliku L. Drake, Chairman  
Hawaiian Homes Commission

HLD:BH:ci/1608L.77
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

Dr. John C. Lewin, M.D., Director
   Department of Health

Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs

☑ Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

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

SUBJECT: Water Use Permit Application
   Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardyat

Response: Contact person: Herbert H. Minakami
   Phone: [Redacted]

☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Signed: Kazu Hayashida
   Manager and Chief Engineer
October 19, 1993

Mr. Keith Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii

Dear Mr. Ahue,

Subject: Four Letters of September 21, 24, 28 and 29, 1993 Requesting Comments on Water Use Permits for Various Applicants

<table>
<thead>
<tr>
<th>Applicant</th>
<th>Well No.(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ewa Gentry</td>
<td>2001-05</td>
</tr>
<tr>
<td>Dudley Chang</td>
<td>2750-09</td>
</tr>
<tr>
<td>State Housing Finance &amp; Development</td>
<td>2853-04 &amp; 05</td>
</tr>
<tr>
<td>MRTC/HIMB/UH</td>
<td>3051-02</td>
</tr>
<tr>
<td>Campbell Estate</td>
<td>4157-08, 4158-12 &amp; 13,</td>
</tr>
<tr>
<td></td>
<td>4258-05 to 08, 4258-10,</td>
</tr>
<tr>
<td></td>
<td>and 4258-12 to 17</td>
</tr>
</tbody>
</table>

Thank you for the opportunity to comment on these applications for permits for existing water uses. The Board of Water Supply had no objections to the permits. Their comments included a request that the Department of Land and Natural Resources review the total quantity of requested water by Campbell Estate against the estimated sustainable yield of the Kahuku aquifer.

Warm personal regards.

Sincerely,

FFF:rk

cc: Jeremy Harris, Managing Director
October 15, 1993

The Honorable Keith W. Ahue, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources

Dear Mr. Ahue:

Water Use Permits

Thank you for the opportunity to respond to the following applications for Windward O'ahu water use permits:

- Waihee-Chang (2750-09)
- Waiahole-HFDC (2853-04, 05)
- Hakipuu-MRTC (3052-02)
- Kahuku-Campbell (4158-12, 13, 4258-05, 06, 07, 08, 10, 12, 13, 14, 15, 16, 17)
- Laie-PCC (3855-09)

These applications do not affect Hawaiian home lands; we have no comments.

Warmest aloha,

Hoaliku L. Drake, Chairman
Hawaiian Homes Commission
MEMORANDUM

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

FROM: Don Hibbard, Administrator
Historic Preservation Division

SUBJECT: Water Use Permit Application, Koolauloa Ground Water Management Area, Well Nos. 4158-12 & 13 (Campbell Estate)
Kahuku, Ko'olauloa, O'ahu
TMK: 5-6-5: 7

This application is for the use of water from an existing source. Since there are no ground breaking activities associated with an approved permit we believe that there will be "no effect" on historic sites.

TD:jt
MINUTES
FOR THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: October 13, 1993
TIME: 9:00 a.m.
PLACE: Board Room
Kalanimoku Building

ROLL CALL: Chairperson Ahue called the meeting of the Commission on Water Resource Management to order at 9:09 a.m.

The following were in attendance:

MEMBERS: Mr. Keith Ahue
Mr. Richard Cox
Dr. John L. Lewin
Mr. Robert Nakata
Mr. J. Douglas Ing

EXCUSED: Mr. Guy Fujimura

STAFF: Ms. Rae Loui
Mr. Edwin Sakoda
Mr. Roy Hardy
Mr. Eric Hirano
Ms. Lenore Nakama
Ms. Sharon Kokubun

COUNSEL: Mr. William Tam

OTHERS:
Winifred Miller
Guy Nakamoto
Creighton Mattoon
Warren Iwasa
Conrad Shiroma
Dave Martin
Wright Hiatt
George Young
Kent Smith
Garrett Goo
Chester Lao
Norman Quon
Edsel Yamada
Reynolds Burkland
Mr. Iida
Kahalaomapuana Wasson
Jim Anthony
Karen Piltz
Barry Ching
Elizabeth Martin
Wayne Akana
Keith Krueger
Laverne Higa
Ruby & Gene Montogomery
Laura Thielen
Ken Ishizaki
Peter Lenhart
David Taogoshi
Keith Haugen

All written testimonies submitted at the meeting are filed in the Commission office and are available for review by interested parties. Some items were taken out of sequence to accommodate requests by applicants or interested parties.

AGENDA 1

ITEM 1  MINUTES OF THE SEPTEMBER 15, 1993 MEETING
Unanimously approved (Cox/Nakata).
ITEM 6  BIG ISLAND COUNTRY CLUB ESTATES, APPLICATION FOR A PUMP INSTALLATION PERMIT, BIG ISLAND COUNTY CLUB WELL 1 (WELL NO. 4250-01), PUU ANAHLULU, NORTH KONA, HAWAII

Mr. Sakoda added the following to Condition 2:

"The applicant shall coordinate with the Commission and conduct a pumping test in accordance with the protocol established by the Commission."

Unanimously approved as amended (Cox/Nakata).

ITEM 7  CLAYTON HAUMEA, APPLICATION FOR A PUMP INSTALLATION PERMIT, MAILI-TOMITA WELL (WELL NO. 2409-24), MAILE, OAHU

Unanimously approved (Cox/Nakata).

ITEM 8  EXTENSION: NANSAY HAWAII INC WELL CONSTRUCTION PERMIT, OULL-NANSAY WELL 2 (WELL NO. 6146-01), OULL, SOUTH KOHALA, HAWAII

Mr. Ing was excused from acting on this permit since his law firm represents the company.

Unanimously approved (Lewin/Cox).

ITEM 9  EXECUTIVE SESSION: Koolaupoko Agricultural vs. the Commission litigation (Cox/Nakata).

The meeting was called to order at 1:11 p.m.

ITEM 1  DEFERRAL OF WATER USE PERMIT APPLICATIONS, OAHU WATER MANAGEMENT AREAS

Unanimously approved (Nakata/Cox).

ITEM 2  RUBY MONTGOMERY, APPLICATION FOR WATER USE PERMIT, RL MONTGOMERY WELL (WELL NO. 2751-08), KOOLAUPOKO GROUND WATER MANAGEMENT AREA, OAHU

Unanimously approved with staff's deletion of Recommendation 1d regarding DHHL reservation (Ing/Lewin).

ITEM 3  KAHALA HILTON WATER USE PERMIT APPLICATIONS, KAHALA HILTON #1 AND #2 WELLS (WELLS NOS. 1646-05 & 06), WAIALAE-WEST GROUND WATER MANAGEMENT AREA, OAHU

Mr. Ing asked to be excused from acting on this permit since his firm represents the applicant. Standard Condition #11 will be amended to require a yearly submission.
Deferral of Water Use Permit Applications
Oahu Ground Water Management Areas

Applicants:
Honolulu Board of Water Supply
Waiahole Irrigation Co., Ltd.
State HFDC
Campbell Estate
Laie Water Co., Inc.
Zion's Security, Corp.
Polynesian Cultural Center
MRTC/HIMB/UH
Dudley W.A. Chang
U.S. Fish and Wildlife Service
Gentry Development Co.

Landowner:
Same
Same
Same
Same
Same
Same
Same
Same
Same
U.S. Navy, Pacific Division
Same

Background

The Commission designated Windward Oahu and the island of Molokai, with their corresponding aquifer systems as ground water management areas, on May 5, & 13 1992, respectively. All registered ground water users have been sent an initial notification of the official date, July 15, 1992, on which the Commission would begin accepting water use permit applications for existing water use permits.
Issues

These applicants require Commission action to satisfy the ninety (90) day requirement for action but for various reasons staff wishes to defer action on the applications listed in Table 1.

<table>
<thead>
<tr>
<th>Applicant</th>
<th>Reason for Deferral</th>
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</thead>
<tbody>
<tr>
<td>Honolulu Board of Water Supply Wells 1744-05 1848-01 2250-03 2348-06 Total 4 WUPAs</td>
<td>No response to CWRM request for more information on future projects.</td>
</tr>
<tr>
<td>Waiahole Irrigation Co., Ltd. Wells 2853-01 2953-01 &amp; 02 3053-01 Total 4 WUPAs</td>
<td>No response to CWRM request for more information on OSCo. withdrawal impacts on future needs. Field investigation for use not complete.</td>
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<tr>
<td>State HFDC Wells 2853-04 &amp; 05 Total 2 WUPAs</td>
<td>Objection deadline is 10/18/93.</td>
</tr>
<tr>
<td>Campbell Estate Wells 4158-12 &amp; 13 4258-05 thru 17 Total 13 WUPAs</td>
<td>Objection deadline is 10/29/93.</td>
</tr>
<tr>
<td>Laie Water Co., Inc. Wells 3855-06 to 08 3956-03 Total of 1 WUPA</td>
<td>Request of applicant.</td>
</tr>
<tr>
<td>Zion's Security, Corp. Wells 3554-01 &amp; 02 3654-03 3755-04 &amp; 06 3855-04 3856-04 &amp; 07 3956-05 Total 8 WUPAs</td>
<td>Request of applicant.</td>
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<tr>
<td>Polynesian Cultural Center Well 3855-09</td>
<td>Request of applicant.</td>
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<tr>
<td>MRTC/HIMD/UII Well 3051-02</td>
<td>Objection deadline is 10/18/93.</td>
</tr>
<tr>
<td>Dudley W.A. Chang Well 2750-09</td>
<td>Objection deadline is 10/18/93.</td>
</tr>
<tr>
<td>U.S. Fish &amp; Wildlife Service Well 2101-14</td>
<td>More staff analysis necessary.</td>
</tr>
<tr>
<td>Gentry Development Co. Well 2001-04 &amp; 05</td>
<td>More staff analysis necessary.</td>
</tr>
</tbody>
</table>
Chairperson and Members
Commission on Water Resource Management

October 13, 1993

RECOMMENDATION:

That the Commission defer action on the applications listed in Table 1.

Respectfully submitted,

RAE M. LOUI
Deputy Director

APPROVED FOR SUBMITTAL:

KEITH W. AHUE, Chairperson
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
   Forestry and Wildlife
   Historic Preservation
   Land Management
   Natural Area Reserve System
   Office of Conservation and Environmental Affairs
   State Parks
   Water and Land Development
   Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

LN:ky

Attachments

Response: Contact person: Stan Taguma
Phone: 

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ___________________ Date: 10/15/93
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

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We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ___________

Response: Contact person: ____________________________

☐ We have no comments
☐ We have no objections
☐ Comments attached
☐ Additional information requested
☐ Extended review period requested

Signed: ___________  Date: 10/12/93

[Signature]

Office of Conservation and Environmental Affairs
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources  
   Forestry and Wildlife  
   Historic Preservation  
   Land Management  
   Natural Area Reserve System  
   Office of Conservation and Environmental Affairs  
   State Parks  
   Water and Land Development  
   Other Interested Parties

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   Koolauloa Ground Water Management Area, Oahu

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If you have any questions regarding this application, please contact Roy Hardy at

LN:ky

Attachments

Response: Contact person: _______________________ Phone: ______

() We have no comments
☑ We have no objections
() Comments attached
() Additional information requested
() Extended review period requested

Signed: ___________________________  Date: 10/23/93
Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

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If you have any questions regarding this application, please contact Roy Hardy at

LN:ky
Attachments

Response: Contact person: Phone:

(*) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: Date: 10/19/93
<table>
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<th>TO:</th>
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<th>PLEASE:</th>
<th>FOR YOUR:</th>
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<tr>
<td></td>
<td>G. Matsumoto</td>
<td>See Me</td>
<td>Approval</td>
</tr>
<tr>
<td></td>
<td>E. Sakoda</td>
<td>Call</td>
<td>Signature</td>
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<tr>
<td></td>
<td>Y. Shiroma</td>
<td>Review &amp; Comment</td>
<td>Information</td>
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<td></td>
<td>E. Hirano</td>
<td>Take Action</td>
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<td></td>
<td>D. Higa</td>
<td>Investigate &amp; Report</td>
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<td></td>
<td>G. Bauer</td>
<td>Draft Reply</td>
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<td>R. Hardy</td>
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<td>R. LOUI</td>
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<td>S. KOKUBUN</td>
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<td>M. TAGOMORI</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>L. NANBU</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Ms. Rae M. Loui  
Deputy Director  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management

Dear Ms. Loui:

Wells 4158-12 and 13

In reference to the attached letter, these wells do now service water to 18 homes on the Kahuku Air Base System. Many of these homes are kuleanas.

If you have any questions, give me a call at [redacted]

Sincerely,

James E. Menor  
Administrator,  
Natural Resources

sdhg:01045300\K10029
Ms. Donna Goth  
Campbell Estate  

Dear Ms. Goth:

Application for a Water Use Permit  
Koolauloa Ground Water Management Area, Oahu

We acknowledge receipt, on August 18, 1993, of your completed water use permit application for the Air Base Pump Wells (Well No. 4158-12 & 13). You can expect your application to be processed within ninety (90) days from the date of receipt unless there are objections to your application.

From our field investigation on May 12, 1993 for this source it was found that only three offices were existing at that time. Therefore, we are assuming that the eighteen (18) homes you refer to are for future use. If you have any further comments on the nature of the existing use please contact us as soon as possible.

We will be sending you a copy of the public notice for your application and any further information regarding the status of your application. In addition, we may need to visit and verify your proposed water source and use sites if we have not done so already under our registration program.

If you have any questions, please contact Roy Hardy at [redacted]

Sincerely,

RAE M. LOUI  
Deputy Director
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at...

LN:ky
Attachments

Response: Contact person: __________________________ Phone: ______________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: __________________________

Date: ______________
SEP 29 1993

MEMORANDUM

TO: Aquatic Resources
Forestry and Wildlife
Historic Preservation
Land Management
Natural Area Reserve System
Office of Conservation and Environmental Affairs
State Parks
Water and Land Development
Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
Water Use Permit Application
Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at [REDACTED].

LN:ky
Attachments

Response: Contact person: __________________________ Phone: ______

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: [REDACTED]
Administrator

Date: [REDACTED]
Ms. Donna Goth
Campbell Estate

Dear Ms. Goth:

Enclosed is a copy of the public notice for your water use permit applications for Well Nos. 4158-12 & 13, 4258-05 to 08, 10 & 12 to 17 which will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

Please be aware that there may be objections to your applications. If objections are made, the objector is required to file such objections with the Commission and is also required to send you a copy of the objections.

You, or any other party, may respond to objections by filing a brief in support of your applications with the Commission within ten (10) days of the filing of an objection. You, or the other party, must also send a copy of the response to the objector.

If you have any questions, please contact Roy Hardy at [redacted] or Lenore Nakama at [redacted].

Sincerely,

RAE M. LOUI
Deputy Director

LN:ky
Encl.
PUBLIC NOTICE

Applications for Water Use Permit
Ground Water Management Areas

Applications for the following water use permits have been received and are hereby made public in accordance with Department of Land and Natural Resources Administrative Rules 13-171, "Designation and Regulation of Water Management Areas."

Kahuku Airbase Pump (Well Nos. 4158-12 & 13)
Applicant: Campbell Estate
Date Completed Application Received: August 18, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Kahuku Airbase Pump, Well Nos. 4158-12 & 13, at Kahuku, Oahu at Tax Map Key: 5-6-5:7
Quantity Requested: 500,000 gallons per day.
Existing Water Use: Domestic service to 18 homes and 3 aquaculture office buildings
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:32, 35, & 160

T. Astro Salt (Well No. 4258-05)
Applicant: Campbell Estate
Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: T. Astro Salt Well, Well No. 4258-05, at Kahuku-RCA Building, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 5,000,000 gallons per day.
Existing/New Water Use: Aquaculture operations for 12 acres of ogo
Place of Water Use: Kahuku- RCA Building at Tax Map Key: 5-6-3:26

HI Aquaculture 1 (Well No. 4258-06)
Applicant: Campbell Estate
Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: HI Aquaculture Well, Well No. 4258-06, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 3,000,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:32

HI Aquaculture 2 (Well No. 4258-07)
Applicant: Campbell Estate
Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: HI Aquaculture Well, Well No. 4258-07, at Kahuku,
Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 3,000,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:32

Amor RCA Salt 1 (Well No. 4258-08)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor RCA Salt 1 Well, Well No. 4258-08, at Kahuku-RCA Building, Oahu at Tax Map Key: 5-6-3:32
Quantity Requested: 300,000 gallons per day.
Existing/New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku-RCA Building at Tax Map Key: 5-6-3:32

Pac Sea Farms 5 (Well No. 4258-10)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Sea Farms 5 Well, Well No. 4258-10, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 5,000,000 gallons per day.
New Water Use: Shrimp aquaculture
Place of Water Use: Kahuku-RCA Building at Tax Map Key: 5-6-3:26

Amor Pact Salt 1 (Well No. 4258-12)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor Pact Salt 1 Well, Well No. 4258-12, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 3,000,000 gallons per day.
Existing Water Use: Shrimp aquaculture
Place of Water Use: Kahuku at Tax Map Key: 5-6-3:26

Amor Pact Salt 2 (Well No. 4258-13)
Applicant: Campbell Estate

Date Completed Application Received: June 23, 1993
Aquifer: Koolauloa System, Windward Sector, Oahu
Well Source: Amor Pact Salt 2 Well, Well No. 4258-13, at Kahuku, Oahu at Tax Map Key: 5-6-3:26
Quantity Requested: 3,000,000 gallons per day.
Existing Water Use: Backup saltwater supply for shrimp aquaculture
Place of Water Use: Kahuku- RCA Building at Tax Map Key: 5-6-3:26
<table>
<thead>
<tr>
<th>Well Source</th>
<th>Quantity Requested</th>
<th>New Water Use</th>
<th>Place of Water Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amor RCA Salt 2 (Well No. 4258-14)</td>
<td>300,000 gallons per day</td>
<td>Shrimp aquaculture</td>
<td>Kahuku-RCA Building at Tax Map Key: 5-6-3:32</td>
</tr>
<tr>
<td>Amor Pact Salt 3 (Well No. 4258-15)</td>
<td>720,000 gallons per day</td>
<td>Shrimp aquaculture</td>
<td>Kahuku-RCA Building at Tax Map Key: 5-6-3:26</td>
</tr>
<tr>
<td>Amor Pact Salt 4 (Well No. 4258-16)</td>
<td>720,000 gallons per day</td>
<td>Shrimp aquaculture</td>
<td>Kahuku-RCA Building at Tax Map Key: 5-6-3:26</td>
</tr>
<tr>
<td>Amor Pact Salt 5 (Well No. 4258-17)</td>
<td>1,440,000 gallons per day</td>
<td>Shrimp Aquaculture</td>
<td>Kahuku at Tax Map Key: 5-6-3:26</td>
</tr>
</tbody>
</table>

Written objections or comments on the applications for water use permits may be filed by any person who has property interest in any land within the hydrologic unit of the source of water supply, any person who will be directly and immediately affected by the proposed water use, or any other interested person. Written objections shall: (1) state property or other interest in the
matter; (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; and (3) state all grounds for objections to the proposed permits. Send written objections by October 29, 1993 to 1) the Commission on Water Resource Management, and 2) a copy of the objection letter(s) to the applicant at the above address.

COMMISSION ON WATER RESOURCE MANAGEMENT

KEITH W. AHUE
Chairperson

Dated: SEP 22 1993

Publish in: Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993
Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall
Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

Notice of an Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

In accordance with the Department of Land and Natural Resources Administrative Rules, Section 13-171-17(a), we are sending you a copy of the public notice for the water use permit application for the Campbell Estate for Well Nos. 4158-12 & 13 which will be published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) of our Administrative Rules states:

"Within sixty days after receipt of notice of a permit application, the county shall inform the commission if the proposed use is inconsistent with the county land use plans and policies."

We have attached a copy of the application for your review and would appreciate receiving your comments, within the next sixty (60) days, on whether this water use is consistent with county plans and policies.

Very truly yours,

[Signature]

KEITH W. AHUE

Enc.
MEMORANDUM

TO: Aquatic Resources
    Forestry and Wildlife
    Historic Preservation
    Land Management
    Natural Area Reserve System
    Office of Conservation and Environmental Affairs
    State Parks
    Water and Land Development
    Other Interested Parties

FROM: Rae M. Loui, Deputy Director

SUBJECT: Request for Comments
          Water Use Permit Application
          Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at ___ ky

LN:ky
Attachments

Response: Contact person: ____________________________ Phone: ______

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: ____________________________ Date: ______
MEMORANDUM

TO: Mrs. Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

   Dr. John C. Lewin, M.D., Director
   Department of Health

   Mr. Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs

   Mr. Kazu Hayashida, Manager & Chief Engineer
   Honolulu Board of Water Supply

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

SUBJECT: Water Use Permit Application
         Koolauloa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for Campbell Estate for Well Nos. 4158-12 & 13. Public notice of this application will be published in the Honolulu Star Bulletin issues of October 8, 1993 and October 15, 1993.

We would appreciate your review of the attached application and please return this form by October 29, 1993.

If you have any questions regarding this application, please contact Roy Hardy at

Response: Contact person: ________________ Phone: _________

( ) We have no comments
( ) We have no objections
( ) Comments attached
( ) Additional information requested
( ) Extended review period requested

Signed: __________________________ Date: ___________
Ms. Donna Goth  
Campbell Estate  

Dear Ms. Goth:

Application for a Water Use Permit  
Koolauloa Ground Water Management Area, Oahu

In reference to our letter dated September 15, 1993, acknowledging receipt of your completed water use permit application for the Air Base Pump Wells (Well Nos. 4158-12 & 13), a restatement of the results of the field investigation is required.

From our field investigation on May 21, 1993 for this source, it was found that Well No. 4158-12 is currently used to supply domestic and commercial water to fifteen (15) service connections (for kuleana homes, Amorient's RCA building, Pacific Sea Foods, and Aurea Marine) and a portion of the water requirements of 65 cattle. It was further determined that Well No. 4158-13 is capped.

We are continuing to process your application and will be sending you a copy of the public notice for your application and any further information regarding the status of your application.

If you have any questions, please contact Roy Hardy at [redacted]

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

LN:fc
Ms. Donna Goth
Campbell Estate

Dear Ms. Goth:

Application for a Water Use Permit
Koolauloa Ground Water Management Area, Oahu

We acknowledge receipt, on August 18, 1993, of your completed water use permit application for the Air Base Pump Wells (Well No. 4158-12 & 13). You can expect your application to be processed within ninety (90) days from the date of receipt unless there are objections to your application.

From our field investigation on May 12, 1993 for this source it was found that only three offices were existing at that time. Therefore, we are assuming that the eighteen (18) homes you refer to are for future use. If you have any further comments on the nature of the existing use please contact us as soon as possible.

We will be sending you a copy of the public notice for your application and any further information regarding the status of your application. In addition, we may need to visit and verify your proposed water source and use sites if we have not done so already under our registration program.

If you have any questions, please contact Roy Hardy at [Redacted]

Sincerely,

[Signature]
RAE M. LOUI
Deputy Director

RH:fc
August 17, 1993

Ms. Rae M. Loui
Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management

Attn: Mr. Roy Hardy

Dear Roy:

Enclosed is a copy of the Application for Water Use Permit on Wells 4158-12 and 13, that you asked Donna Goth about.

If you have any questions, give me a call at [redacted]

Sincerely,

James E. Menor
Administrator,
Natural Resources
## Application for Water Use Permit

### 1. Applicant
- **Firm/Name**: The Estate of James Campbell
- **Contact Person**: Donna Goth

### 2. Water Management Area
- **Name and State Number**: A'Ino Base Pump - Wells 4155-12 & -13

### 3. Source Name
- **Address**: Kahuku
- **Tax Map Key**: 5-6-05:07

### 4. Location of Proposed Water Use
- **Address**: Kahuku
- **County Zoning Description**: Agricultural
- **Agricultural Use**: 18 homes/3 aquaculture offices

### 5. Quantity of Water Requested
- **500,000 gallons per day**

### 6. Method of Measurement
- **Flowmeter**
- **Open-pipe**
- **Well**
- **Other**

### 7. Quality of Water Requested
- **Fresh**
- **Salt**
- **Potable**
- **Non-Potable**

### 8. Proposed Use
- **Domestic** (individual, noncommercial, etc.)
- **Irrigation**
- **Military**
- **Other**

### 9. Number and Type of Units to be Served
- **Domestic 18 homes/3 aquaculture offices**

### 10. Total Acres Proposed for Irrigation
- **None**

### 11. Proposed Time of Water Withdrawal or Diversion
- **24 hours per day**

### 12. Applicant Must Briefly Describe Following Potential Restrictions on Use
- **Impact on Sustainable Yield**: Unknown
- **Perennial or Interim Instream Flow Standards**: None
- **Hawaiian Home Land Uses**: None
- **Other Existing Legal Uses**: None

### 13. Remarks, Explanations

---

**Note**: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses. In addition, applicant understands that, upon permit approval, a water shortage plan must be submitted should the Commission require one.

**Applicant (Print)**

**Signature**

**Date** 6/3/93

**For Official Use Only**

- **Hydrologic Unit No.**
- **Division Works No.**

- **Date Received**
- **Date Accepted**
- **State Well No.**
- **Public Hearing**
- **N/A**

- **Public Notice**
- **Mayor**
- **City**
- **Mail List**
- **Bulletin**

**WUPA Form 6/24/92**
APPLICATION FOR WATER USE PERMIT

State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

APPLICATION FOR WATER USE PERMIT

Ground Water or Surface Water

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at

1. (a) APPLICANT
Firm/Name: The Estate of James Campbell
Contact Person: Donna Goth
(b) LANDOWNER
Firm/Name: The Estate of James Campbell
Contact Person: Donna Goth

2. WATER MANAGEMENT AREA: Windward Oahu/Ko'olauo

3. (a) EXISTING SOURCE NAME AND STATE NUMBER:
Source Base Pump - Wells 4158-12 & -13
(b) PROPOSED (NEW) SOURCE NAME: n/a

4. SOURCE LOCATION: Address: Kahuku
Tax Map Key: 9-6-05:07
(Attach a USGS map, scale 1:2000, and a property tax map showing source location referenced to established property boundaries)

5. SOURCE TYPE (check one):
☐ Stream ☐ Basal ☐ Dike-confined ☐ Perched ☐ Caprock

6. METHOD OF TAKING WATER (check one):
☐ Artesian Flow ☐ Well & Pump ☐ Diverted Surface Flow ☐ Other (explain)

7. LOCATION OF PROPOSED WATER USE: (if possible, show on same maps as source location. Otherwise, attach similar maps)
(a) Address: Kahuku
Tax Map Key: 5-6-03
(b) Land Use District (check one):
☐ Urban ☐ Agriculture ☐ Conservation ☐ Rural
(c) County Zoning (describe):
AG-2

8. QUANTITY OF WATER REQUESTED: 500,000 gallons per day

9. METHOD OF MEASUREMENT:
☐ Flowmeter ☐ Open-pipe ☐ Well ☐ Office ☐ Other (explain)

10. QUALITY OF WATER REQUESTED:
☐ Fresh ☐ Brackish ☐ Salt ☐ Potable ☐ Non-Potable

11. PROPOSED USE:
☐ Municipal (including hotels, stores, etc.) ☐ Domestic (individual, noncommercial, etc.) ☐ Irrigation
☐ Industrial ☐ Military ☐ Other (explain)

12. NUMBER AND TYPE OF UNITS TO BE SERVED (explain):
☐ Domestic and aquaculture

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP:
n/a

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day
(Indicate hours of operation)

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
(a) Impact on Sustainable yield (?):
Unknown
(b) Permanant or Interim
Instream Flow Standards affected (?):
None
(c) Hawaiian Home Land uses affected (?):
None
(d) Other existing legal uses affected (?):
None
(e) Other:
None

16. REMARKS, EXPLANATIONS:

NOTE: Signing below indicates that the applicant understands that, if a water use permit is granted by the Commission on Water Resource Management, a permit is subject to prior existing permitted uses, changes in sustainable yields and instream flow standards, reserved uses as defined by the Commission, and Hawaiian Home Lands future uses. In addition, applicant understands that, upon permit approval, a water shortage plan must be submitted should the Commission require one.

Applicant (print): The Estate of James Campbell
Signature: ____________________________
Date: 7/3/93

Landowner (print): The Estate of James Campbell
Signature: ____________________________
Date: 7/3/93

For Official Use Only:
Date Received
Date Acquiesced
Hydrologic Unit No.
Diversion Works No.
State Well No.

Notice Dates:
Public Mayor BWS Mail List Bulletin Public Hearing
We visited well 4158-12, the Kahuku Airbase Domestic System, located on the mauka side of Kamehameha Hwy opposite Marconi Road on May 21, 1993. The wooden pumphouse is approx. 1100' mauka of Kam Hwy, along an access road just beyond the gate to the Kahuku Military Training Area. A 12" cased well is located inside the pumphouse and was drilled in 1942 to a depth of 250'. The well pump is a submersible pump of unknown hp with a capacity of 350 gpm. The pump operations are automated; potable water is chlorinated and metered at the well site. The system is set up so the military has a supply of potable water as needed, although at the present the Army only uses water during military manoeuvres. The well is operated by Campbell Estate. Most of the water used is transported to several of Campbell Estate's commercial lessees and to nearby kuleana homes for domestic use. Individual users have their own meters and are billed for their use.

Potable water is stored in a 500,000 gallon underground storage tank up the hillside which is kept half full. The Kahuku Airbase Well is one of two community domestic water systems that Campbell Estate operates in the area. This system is monitored by the State of Hawaii Dept. of Health and is designated as System # 315. The Department of Health report states that the system has 15 service connections and serves approximately 75 people. The users are kuleana households, Amorient's RCA Building, Pacific Sea Foods, and Aurea Marine. Several lessees mentioned that there was an agreement in their commercial leases that Campbell Estate would provide specified quantities of potable water.

Some information from the Dept of Health's general files are in the well file as background information. This includes a map of the system and sketch of the piping from the well, storage tank and main distribution line. An 8" iron pipe transmits the water to the storage tank; a 6" pvc pipe runs from the storage tank to Kam Hwy; a 4" pvc pipe carries water to the makai side of Kam Hwy where there are 15 service connections of mixed commercial and domestic users. Water from the well is also being used to provide some of the drinking water for 65 cattle that graze on a parcel between pump 2 and the Kahuku Airbase well. One water trough is filled from the Kahuku Airbase Well.

At the time of inspection I observed a McCrometer meter, serial # 9061384, read 12,543,600 gallons, the morning of May 21, 1993. Campbell Estate files monthly pumpage reports. Pumpage in the last year has varied from 73,132 gpd to 121,667 gpd. Campbell Estate has requested 500,000 gpd in their GWMZ application, substantially higher than their current usage.
PART I: USE OF WATER

GWMZ Applicant: Campbell Estate. Campbell Estate is requesting 500,000 gallons per day for "domestic and aquaculture" from 4158-12 & 13. Well 4158-13 is capped. 500,000 gallons per day is approximately the capacity of the submersible pump installed on well 4158-12.

Water Use Decl. File Ref.: CAMPBELL EST
State Well #'s: 4158-12 (in use), 4158-13 (unused)

Name: Kahuku Airbase Domestic Water System, System # 315, Classified as a "Community Water System." This system has been active since 01/01/41 and is monitored on a monthly basis by the State Department of Health. The pump is located in a locked wooden structure inside the Kahuku Airbase gate.

1. Tax Map Keys where the water is used: TMK: 5-6-03: 1, 25, 26, 27, 28, 32, 34, 38, etc. and 5-6-02:9.
   Does the applicant own this land? Campbell owns the land in commercial use, but the kuleanas are owned privately.

2. What is the water used for? Domestic water system--water used for troop's drinking water during maneuvers, household use in kuleana homes, small amounts used at Amorent's RCA building, Pacific Sea Foods, Aurea Marine, etc.
   If for irrigation, how many acres are being irrigated? none
   If livestock, how many of what kind? This well provides one water trough for 65 cattle. The cattle also drink water from Pump 2, Well 4159-01.
   How many houses? This well supplies 15 service connections--mixed commercial and domestic users. How many people? The Dept of Health estimates that it serves a population of 75.

3. Is the quantity of water use being measured? yes. There is a McCrometer installed on the pipeline, serial # 90 6 1384, which read 12,543,600 gallons on 5/21/93. Campbell Estate reported the following monthly pumpage:

<table>
<thead>
<tr>
<th>MONTH</th>
<th>GALLONS</th>
<th>GALLONS PER DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 1993</td>
<td>3,700,000</td>
<td>119,355 GPD</td>
</tr>
<tr>
<td>June 1993</td>
<td>3,650,000</td>
<td>121,667 GPD</td>
</tr>
<tr>
<td>May 1993</td>
<td>3,700,000</td>
<td>119,355 GPD</td>
</tr>
<tr>
<td>April 1993</td>
<td>3,200,000</td>
<td>106,667 GPD</td>
</tr>
<tr>
<td>March 1993</td>
<td>3,100,000</td>
<td>100,000 GPD</td>
</tr>
<tr>
<td>February 1993</td>
<td>3,120,000</td>
<td>111,428 GPD</td>
</tr>
<tr>
<td>January 1993</td>
<td>2,850,000</td>
<td>91,935 GPD</td>
</tr>
<tr>
<td>December 1992</td>
<td>2,267,100</td>
<td>73,132 GPD</td>
</tr>
<tr>
<td>November 1992</td>
<td>3,500,000</td>
<td>115,667 GPD</td>
</tr>
<tr>
<td>October 1992</td>
<td>3,700,000</td>
<td>119,355 GPD</td>
</tr>
<tr>
<td>September 1992</td>
<td>3,000,000</td>
<td>100,000 GPD</td>
</tr>
<tr>
<td>August 1992</td>
<td>3,300,000</td>
<td>106,452 GPD</td>
</tr>
</tbody>
</table>
Campbell Estate Field Inspections
Kahuku Airbase Domestic System
Well # 4158-12, 13
Inspected 5/21/93, Page Two

4. Does this person take from a multi-user pipe or ditch system? No

PART II: WATER SOURCE

1. Where does the water come from/what kind of source is this? Cased well drilled in 1942. Water is stored in a 500,000 gallon underground storage tank which is kept half full. The State Well Registry lists the casing size as 12", the total depth at 250' and the chlorides between 157 and 351 mg/l. A gas chlorinator was installed in Sept. 1985. An 8" iron pipe carries water from the well to the reservoir. A 6" pvc pipe carries water from the well to Kam Hwy where it is reduced to a 4" pvc line to the users. There are 15 billable clients that Campbell Estate provides water to.

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs.

How is the water taken? Submersible pump replaced by Roscoe Moss in 1985.
What is the capacity for taking (gpm)? 350 gpm
How often is it taken (used)? As needed.

3. Tax Map Key at the source: TMK: 5-6-5:07

Determine applicant's (Campbell Estate) relation to source.

Does the applicant:
1) Operate and maintain the source? No
2) Own the land at the source? Yes
3) Use the water from this source? No
4) Own the land where the water is being used? Yes

4. Does anyone else also use water from this source? No

Verified By: Susan Swanson Date of Inspection: May 21, 1993
GROUND WATER MANAGEMENT ZONE PERMIT APPLICATIONS
FIELD INSPECTION INFORMATION CHECKLIST

PART I: USE OF WATER

GWMZ Applicant: Campbell Estate. Campbell Estate is requesting 500,000 gallons per day for "domestic and aquaculture" from 4158-12 & 13. Well 4158-13 is capped. 500,000 gallons per day is approximately the capacity of the submersible pump installed on well 4158-12.

Water Use Decl. File Ref.: CAMPBELL EST
State Well #'s: 4158-12 (in use), 4158-13 (unused)

Name: Kahuku Airbase Domestic Water System, System # 315, Classified as a "Community Water System." This system has been active since 01/01/41 and is monitored on a monthly basis by the State Department of Health. The pump is located in a locked wooden structure inside the Kahuku Airbase gate.

1. Tax Map Keys where the water is used: TMK: 5-6-03: 1, 25, 26, 27, 28, 32, 34, 38, etc. and 5-6-02:9.
   Does the applicant own this land? Campbell owns the land in commercial use, but the kuleanas are owned privately.

2. What is the water used for? Domestic water system--water used for troop's drinking water during maneuvers, household use in kuleana homes, small amounts used at Amorient's RCA building, Pacific Sea Foods, Aurea Marine, etc.
   If for irrigation, how many acres are being irrigated? none
   If livestock, how many of what kind? This well provides one water trough for 65 cattle. The cattle also drink water from Pump 2, Well 4158-12.
   houses? This well supplies 15 service connections--mixed and domestic users. How many people? The Dept of Health That it serves a population of 75.
   Quality of water use being measured? yes. There is a pump installed on the pipeline, serial # 90 6 1384, which 2,700,000 gallons on 5/21/93. Campbell Estate reported the monthly pumpage:

<table>
<thead>
<tr>
<th>Date</th>
<th>Gallons</th>
<th>Gallons per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 1993</td>
<td>3,700,000</td>
<td>119,355 GPD</td>
</tr>
<tr>
<td>June 1993</td>
<td>3,650,000</td>
<td>121,667 GPD</td>
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<tr>
<td>May 1993</td>
<td>3,700,000</td>
<td>119,355 GPD</td>
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<tr>
<td>April 1993</td>
<td>3,200,000</td>
<td>106,667 GPD</td>
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<tr>
<td>March 1993</td>
<td>3,100,000</td>
<td>100,000 GPD</td>
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<tr>
<td>February 1993</td>
<td>3,120,000</td>
<td>111,428 GPD</td>
</tr>
<tr>
<td>January 1993</td>
<td>2,850,000</td>
<td>91,935 GPD</td>
</tr>
<tr>
<td>December 1992</td>
<td>2,267,100</td>
<td>73,132 GPD</td>
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<tr>
<td>November 1992</td>
<td>3,500,000</td>
<td>116,667 GPD</td>
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<tr>
<td>October 1992</td>
<td>3,700,000</td>
<td>119,355 GPD</td>
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<tr>
<td>September 1992</td>
<td>3,000,000</td>
<td>100,000 GPD</td>
</tr>
<tr>
<td>August 1992</td>
<td>3,300,000</td>
<td>106,452 GPD</td>
</tr>
</tbody>
</table>
4. Does this person take from a multi-user pipe or ditch system? No

PART II: WATER SOURCE

1. Where does the water come from/what kind of source is this? Cased well drilled in 1942. Water is stored in a 500,000 gallon underground storage tank which is kept half full. The State Well Registry lists the casing size as 12", the total depth at 250' and the chlorides between 157 and 351 mg/l. A gas chlorinator was installed in Sept. 1985. An 8" iron pipe carries water from the well to the reservoir. A 6" pvc pipe carries water from the well to Kam Hwy where it is reduced to a 4" pvc line to the users. There are 15 billable clients that Campbell Estate provides water to.

2. Show the source location on maps, determine latitude and longitude, and document the nature of source development by measurements, sketches, and photographs. How is the water taken? Submersible pump replaced by Roscoe Moss in 1985. What is the capacity for taking (gpm)? 350 gpm How often is it taken (used)? As needed.

3. Tax Map Key at the source: TMK: 5-6-5:07 Determine applicant's (Campbell Estate) relation to source.

   Does the applicant:
   1) Operate and maintain the source? No
   2) Own the land at the source? Yes
   3) Use the water from this source? No
   4) Own the land where the water is being used? Yes

4. Does anyone else also use water from this source? No

Verified By: Susan Swanson Date of Inspection: May 21, 1993
WATER USE PERMIT NO. 757

This report has been prepared in accordance with 13-171-22(b) of the Hawaii Revised Statutes requiring a 20-year review of issued water use permits to determine permit compliance. Following is a summary of permit information, site characteristics, methodology, findings, and recommendations for this State permit file.

Permit Information

<table>
<thead>
<tr>
<th>Water User:</th>
<th>Diversified Ag Promotions, LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landowner of Source:</td>
<td>Diversified Ag Promotions, LLC</td>
</tr>
<tr>
<td>Permitted Withdrawal Rate:</td>
<td>0.300 mgd (Based upon a 12-month moving average)</td>
</tr>
<tr>
<td>Water Management Area:</td>
<td>Ko‘olauloa</td>
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<tr>
<td>Island:</td>
<td>Oahu</td>
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<tr>
<td>Aquifer Sector/System:</td>
<td>Windward/Ko‘olauloa</td>
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<tr>
<td>System Sustainable Yield:</td>
<td>35 mgd</td>
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<tr>
<td>Water Type:</td>
<td>Fresh, Potable</td>
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<tr>
<td>Original CWRM Date:</td>
<td>November 9th, 2005</td>
</tr>
<tr>
<td>Standard Conditions:</td>
<td>1-20, 22</td>
</tr>
<tr>
<td>Special Conditions:</td>
<td>1-2, 6</td>
</tr>
</tbody>
</table>

Water Source

| State Well Number(s): | 4158-12 |
| Well Name: | Kahuku Air Base |
| Water Source TMK Number(s): | 1st Division, 5-6-005:016 |
| State Land Use Classification(s): | Agriculture |
| County Zoning Classification(s): | AG-1 |
| Geographical Coordinates: | Latitude 21° 41.415’ North  
Longitude 157° 58.605’ West |

End Use

| End Use TMK Number(s): | 1st Division, 5-6-003:010, 025, 026, 027, 028, 030, & 031 |
| State Land Use Classification(s): | Agriculture |
| County Zoning Classification(s): | AG-1 |
Geographical Coordinates: Various
Beneficial Use Explanation: Use for 275 acres of diversified agriculture and eight residences

**Background Information**

State Well Nos. 4158-12 and 4158-13 were originally drilled in approximately 1942 and 1945, respectively, by Campbell Estate. The original declaration of water use was given to the Commission by Campbell estate in 1988. After officially applying in July of 1999, Water Use Permit 524 (included in file for reference) was issued to Campbell Estate on August 14th, 2000. Campbell estate transferred the permit to Diversified Ag Promotions, LLC five years later. Water Use Permit 757 supersedes Water Use Permit 524. Neither permit, however, lists State Well No. 4158-13 as a permitted source, although it appears that it was associated with State Well No. 4158-12 at some point in the past. Since State Well No. 4158-13 is not listed in either permit, it will not be investigated as part of WUP 757.

Consistent water use reporting records are available beginning in 2004 with sporadic recording prior to that. The permittee’s 12-month moving average has not exceeded the permitted amount of 0.300 mgd since that time. In August of 2005, however, reported water usage dropped to zero and has not increased since.

The transfer of Water Use Permit 524 to Water Use Permit 757 was approved during the November 9th, 2005 Commission on Water Resource Management meeting. This water source has been in use for approximately 50 years with Diversified Ag Promotions, LLC using it for the past three. The previous permittee was Campbell Estate. Standard conditions 1-20 & 22 and special conditions 1-2 & 6 are the governing conditions for this water use permit. A complete list of all standard and special conditions is given in the final summary report to the Legislature for the 20-year Water Use Permit Review.

**Field Investigation Information**

Contact: Jeff Wallace
Site Address: [Redacted]

Brown and Caldwell conducted a field investigation on January 14th, 2008 from 11:45 p.m. until 1:30 p.m. with Mr. Jeff Wallace. During this time, type of water usage was verified, GPS coordinates of well head(s) were recorded, flow meter installation and functionality were documented, and property TMK information was verified. The wellhead, its related
appurtenances, and water usage area were visually inspected to assess compliance with permit conditions. Visual inspection of water loss/waste was limited to outdoor areas within the usage boundary. The physical location of the well head is approximately 200 yards up a gated dirt road that is roughly 1-mile past the Turtle Bay resort on the Mauka side of Kamehameha Highway. The water use areas are down Marconi road on the Makai side of the highway. Reference the TMK and GIS maps in the permit file for a visual representation of the site.

**Summary of Findings for Water Use Permit No. 757**

Water is currently being drawn from State Well No. 4158-12, which is located at geographical coordinates 21°41.415' N, 157°58.605' W at an accuracy of ±15 ft. After the water is drawn from the aquifer, it is treated with a chlorination system and pumped through an 8-in. pipe to a water tank located higher up in the mountains. The tank is equipped with a sensor that initiates the pump once the water level in the tank falls below a certain level. From there, it is gravity fed via an underground PVC piping system to the various residences and crops on the Makai side of the highway. Reference the Appendix for photographs of the previously described system components.

Based upon visual inspection of the system, all components appear to be in full working order. The permittee demonstrated functionality of an installed flowmeter and provided access to the site grounds where no wasting of water or water loss was observed. Visual inspection also confirmed that water use was within the permitted TMK boundaries. Water use is currently being reporting on a monthly basis with no recent evidence of overpumpage violations.

However, the following are a list of standard condition(s) that the permittee is found to be in non-compliance with:

(10) An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis.

Since no salinity reports are being submitted to the Commission, the permittee is found to be in violation of Standard Condition (10).

**Recommendations**

- Update the Commission’s electronic database with the following:
  - Water Source TMK: Change from 5-6-005:007 to 5-6-005:016
  - Input End Use TMK’s (see above for complete list)
  - Create memo field entry noting field investigation on 1/14/08
• Contact permittee regarding zero water use being reported over the past 1 ½ years. Notify that according to Standard Condition 15 regarding partial or total non-use for an additional 2 ½ years could be grounds for revocation of this water use permit.

• Address violation of Standard Condition (10) regarding non-reporting of salinity levels.
20-Year Water Use Permit Review
Water Use Permit No. 757

APPENDIX

Field Investigation Photographs
Figure 1 - State Well No. 4158-12

Figure 2 - Installed Flowmeter
Figure 3 – Pumphouse w/Piping

Figure 4 – Typical End Use Property w/Residence & Agriculture
Standard Conditions List

1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means “the use of water in such a quantity as is necessary for economic and efficient utilization, which is both reasonable and consistent with State and County land use plans and the public interest.” (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in Section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its <Insert Date> meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

Variations of Standard Condition (8) are as follows:
   i. Modification of any permit condition shall be approved by the Commission. Modification of any permit condition without notification may result in the revocation of the water use permit.
9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. Carry out such other necessary and proper exercise of the State’s and the Commission’s police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

Variations of Standard Condition (10) are as follows:
   i. The applicant shall keep monthly pumpage estimates to be submitted annually to the Commission.
   ii. An approved flowmeter(s) need not be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a yearly basis (attached).
   iii. An approved flowmeter(s) must be installed to measure withdrawals and a monthly record of withdrawals, water-levels, salinity, and temperature must be kept and reported to the Commission on a monthly basis in accordance with the Commission’s September 16, 1992 action on reporting requirements.
   iv. Approved flowmeters must be installed to measure monthly withdrawals and a monthly record of withdrawals must be kept and reported to the Commission on Water Resource Management on a monthly basis.
   v. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a quarterly/yearly basis (attached).
   vi. An approved flowmeter shall be installed to measure water withdrawals.
   vii. An approved flowmeter(s) must be installed to measure withdrawals; and a record of the withdrawals must be kept and reported to the Department of
Land and Natural Resources, Division of Water and Land Development, P.O. Box 373, Honolulu, HI 96809, on a monthly basis.

viii. Although not stated as a condition of the permit §13-168-7 HAR requires you to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form.

ix. An approved flowmeter shall be installed and the withdrawal from Well 1851-73 shall be recorded and reported to DLNR on a monthly basis by the owner and/or operator of the well.

x. The withdrawals from these wells shall be recorded and reported to the DLNR on a monthly basis by the BWS.

xi. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting water usage on a monthly basis.

xii. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission.

xiii. The applicant shall provide and maintain an approved meter or other appropriate device or means for measuring and reporting total water usage. Water usage shall be measured on a monthly basis and reported to the Commission along with water level and salinity measurements.

11. This permit shall be subject to the Commission's periodic review of the Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

   Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The uses(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee's water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservations, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter
into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period or forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the <Aquifer>Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

19. Special conditions in the attached cover transmittal letter or attached exhibits are incorporated herein by reference.

20. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

**Variations of Standard Condition (20) are as follows:**

i. The 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 proposed in the permit application shall be completed within two years from the date of permit issuance.

21. This permit may not be transferred or the use rights granted by this permit sold or in any other way alienated. Pursuant to HRS § 174C-59 and the requirements of Chapter 174C, the Commission on Water Resource Management has the authority to allow the transfer of the permit and the use rights granted by this permit in a manner consistent with HRS § 174C-59. Any such transfer shall only occur with the Commission's prior express written approval. Any sale, assignment, lease, alienation, or other transfer of any interest in this permit shall be void.

22. The water use permit granted shall be an interim water use permit, pursuant to HRS § 174C-50. The final determination of the water use quantity shall be made within five (5) years of the filing of the application to continue the existing use.

23. The water use permit shall be issued only after agricultural review.

24. That scheduled adjustments to Oahu Sugar Co. permitted use shall be initiated upon discontinuance of agricultural uses.
25. The issuance of this permit was approved by the Commission on Water Resource Management at its meeting on <Insert Date>.

26. The permit shall be subject to the review by the Attorney General.

27. The permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13.

28. The applicant shall obtain the necessary land acquisition documents from the Hawaii Housing Authority.
Special Conditions List

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. The applicant shall contact the Environmental Management Division, State Department of Health, at 586-4304, concerning “GUIDELINES APPLICABLE TO GOLF COURSES IN HAWAII” date <Insert Date & Version #>.

4. Standard Condition 10 is emphasized, to report consumption on a regular basis.

5. The applicant may continue this existing use of ground water within the limits approved by the Commission, and the actual issuance of the interim permit shall not be a reason to interrupt this existing use.

6. This interim water use permit shall cease to become interim and shall be subject to HRS § 174C-55 upon administrative review of the quantity within five (5) years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same. Enforcement of the allocation limit shall be stayed pending staff’s review and issuance of a permanent water use permit.

7. As-built drawings of the well and pump, and a complete pumping test record shall be submitted within sixty (60) days.

8. In the event the pump tests show that aquifer boundary conditions do not support the requested withdrawals, the Commission reserves the right to amend this permit, after a hearing, to a level that is supported by the pump tests.

9. The existing use may be continued within the levels approved by the Commission, and the actual issuance of the permit document shall not be a reason to interrupt the approved level of use.

10. The filing of an application by Kukui, Inc. for a new or modified water use permit for the Kualapuu Aquifer in excess of 2.0 mgd (total system withdrawal) shall be just cause for re-consideration of this interim permit by the Commission.

11. Upon completion of a new transmission line for the transport of water use by Well #17, the permit shall be modified to reduce the allocation amount by the additional 79,220 gallons per day allocated for use of the Molokai Irrigation System.

12. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall conduct a feasibility study and submit a report describing
alternative sources of nonpotable water for irrigation uses at the resort area. It is
suggested that the developer consider use of dual lines in the subdivisions so that
effluent may be used in the existing reuse system. Another consideration is the
development of brackish water wells in the Kaluakoi Aquifer system for mixing with
the effluent generated at the resort.

13. Within six (6) months from the date of approval of a water use permit for the well,
the application shall evaluate the filter back discharges into Kakaako Gulch to
determine if excessive preventable waste is occurring and identify possible measures
to eliminate or reduce such waste. The evaluation shall be conducted in cooperation
with the Commission staff and staff of the Department of Health’s Safe Drinking
Water Branch, which regulates the drinking water system.

14. Within six (6) months from the date of approval of a water use permit for the well,
the applicant shall 1) implement a leakage control and detection system and compete
repairs to prevent such leakage and 2) implement use of xeriscaping and low-flow
fixtures.

15. Action on the future use portion of the water use permit application for Well #17
(Well No. 0901-01) is deferred pending the establishment of existing uses in the
aquifer. Kukui Inc.’s application for uses in excess of those uses existing on July 15,
1992 will be considered “new” uses and will be taken up by the Commission as soon
as other existing use applications have been decided. In the interim,
a. The Commission shall recognize that there is disagreement between the
applicant’s staff calculations of reasonable-beneficial existing use
b. The Applicant will have the burden of proof to show within six (6) months
reasonable-beneficial existing use calculations that support the applicant’s
request as opposed to staff’s calculations.
c. The Commission’s enforcement of the approved existing use allocation
will be suspended for six (6) months.

16. The permittee shall submit a notice of intent and written request to continue the use
at least ninety (90) days prior to the expiration of the interim five-year permit.

17. The Commission shall delegate to Maui Department of Water Supply the authority
to allocate the use of water for municipal purposes, as provided in §174C-48(b).

18. Maui Department of Water Supply shall be exempt from the requirements for permit
modifications, as provided in §174C-57(c).

19. The permittee must meter water use and monitor chloride concentrations on a
monthly basis and submit monthly reports of water use and chloride concentrations
to the Commission.

20. Standard Condition 16 is waived for saltwater wells.

21. The permit will be revoked if (1) stream monitoring shows that pumping the well
reduces stream flow, or (2) the electromagnetic resistivity survey indicates that the
well was drilled into a dike compartment, unless the applicant submits a petition for an amendment to the interim instream flow standard with the well completion report. However, no use of the water may be made without a Pump Installation Permit, which cannot be issued during consideration of the amendment of the interim instream flow standard.

22. The applicant shall present the results of the electromagnetic resistivity survey, pump tests, and stream monitoring to a community meeting as well as to the Commission.

23. A final determination of water use quantity shall be made within five (5) years of the filing date of the application (<Insert Date>) to continue existing use.

24. The applicant shall implement, by December 31, 1995, a biological and hydraulic monitoring program for a minimum 2-year period that: 1) documents the existing operating procedure, 2) seeks to identify the impacts of all operating alternatives on Waikolu Stream, and 3) seeks to identify the effectiveness of weir modifications (Dam No. 1). This program shall incorporate the three new wells, Wells #4-6 (Well Nos. 0855-06, -05, &-04, respectively), which may be pumped within the approved limits, for monitoring and testing purposes only. Further, semi-annual reports summarizing data and preliminary findings shall be submitted to the Commission. It is suggested that the Department of Agriculture work with the State Division of Aquatic Resources and other affected agencies to prepare the monitoring program in light of the difficult technical questions raised by this application. A particular concern is the coordination of this monitoring program with the ongoing National Park Service study by Anne Brasher. A draft of this plan shall be submitted to the Commission staff within ninety (90) days for technical review and comment. Results of the monitoring program shall be used to make recommendations to the Commission on any additional use of the wells, and shall be made readily available to all interested parties.

25. That the Commission approves the well construction permit for the Kamiloloa-Waiola Well (Well No. 0759-01), subject to the standard well construction conditions and the special conditions for the pumping well for the aquifer tests.

26. That the Commission authorizes the Chairperson to approve and issue a pump installation permit upon acceptance of adequate pump test result, subject to the standard pump installation conditions.

27. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

28. The applicant shall follow the agreed monitoring plan.

29. If pesticides used by the applicant are found in ground or surface water and can be traced to the applicant's use, the CWRM may revoke the permit immediately upon such finding.
30. Issuance of the interim permit shall be withheld until the reservation of water for DHHL is set by rule. Applicant may continue this existing use within the approved limits.

31. The applicant shall submit well modification and pump installation permit applications for administrative approval by chairperson prior to beginning any work required to complete well.

32. Should any stream flow impacts result from use, petition to amend interim instream flow standards shall be submitted.

33. Should any dewatering result from use, pumping shall cease immediately.

34. Shall submit accurate schematic diagram of distribution system for the battery of 5 wells.

35. Shall be subject to a 6-month independent audit & monitoring.

36. Final pump capacity shall be determined from pump test results & approved administratively by signature of chair.

37. The permittee shall seek and submit to the Commission within ninety (90) days written confirmation from the Department of Land Utilization of the non-conforming use.

38. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the chairperson.

39. The duration of the interim permit shall be:
   a. To July 1, 2006, or
   b. Until treated wastewater is available and acceptable for use, or
   c. Until such time that a significant change in permitted, actual, or projected uses or water supply occurs.

40. Action on any interim permit may be initiated by the Commission or any permittee upon letter request or pursuant to §174C-57 Haw. Rev. Stat. (Modification of permit terms).

41. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

42. Require adherence to the chloride sampling protocol and the submittal of weekly chloride data. The authority to approve variances from the weekly reporting requirement is delegated to the Chairperson.

43. Require adherence to the Conservation Conditions.
44. In the event a water shortage is declared by the Commission, permittees in the <Insert Aquifer System> shall comply with the <Insert Aquifer System> water shortage plan adopted by the Commission.

45. The permittee shall contact the Department of Health, Clean Water Branch and obtain the necessary discharge permit(s).

46. Permit shall be interim and replaces existing WUP for 2051-07 & 11.

47. Applicant shall submit an acceptable archaeological inventory survey report to DHP. If historic sites affected, a plan to mitigate these affects must be accepted by DHP and completed by applicant.

48. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

49. (The permittee) may report monthly pumpage on yearly basis.

50. Prior to issuance of any permits, must submit filing fee for after-the-fact pump installation permit.

51. The term of this permit shall be twenty years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit.

52. The amount of water to be withdrawn under this permit shall be 0.19 mgd, averaged annually, for irrigation use. This permitted use of 0.19 mgd when added to a preserved use of 0.27 mgd amounts to a total of 0.46 mgd, averaged annually, which may be withdrawn from well 1646-01.

53. The use authorized by the permit must not interfere substantially and materially with existing individual household uses and existing uses.

54. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

55. This permit may be suspended or revoked, in accordance with Chapter 166.

56. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.

57. The withdrawal from Well 1646-10 shall be recorded and reported to DLNR on a monthly basis by the permittee.

58. In the event that emergency water use occurs, the permittee shall notify the Commission in writing within one (1) day of pumping, to inform the Commission as to the nature of the emergency and the expected duration of the emergency. A water
use report shall also be filed pursuant to Standard Condition 10 and Administrative Rule 13-168-7.

59. Note DOH’s requirements related to non-potable water systems (attached to original permit).

60. Standard Condition 16 requiring the submittal of a water shortage plan is waived.

61. All non-potable spigots and piping shall be clearly labeled as “DO NOT DRINK, NON-POTABLE” to prevent direct human consumption.

62. Standard Condition 10 is modified. Due to the inability to take water level measurements, the requirement to measure monthly water levels is waived. In addition, as long as the U.S. Geological Survey is collecting and analyzing the chloride content of the well water, the requirement for the permittee to measure and report chlorides is also waived.

63. Well elevation components must be surveyed by a licensed surveyor and this information must be submitted to commission prior to issuance of permanent permit.

64. The permittee shall obtain approvals from the Department of Health and the U.S. Environmental Protection Agency prior to use of the water.

65. This water use permit, WUP No. <Insert #>, shall supersede WUP No. <Insert #>.

66. WUP No. <Insert #> is revoked.

67. Standard Condition 17 is waived.

68. Standard Condition 22 for interim water use permits shall not apply.

69. To supplement our records, we request that you provide a map of the Galbraith Est. lands west of Wahiawa (2100 ac+) and the associated TMK’s for use area.

70. Deferred action on portion requested for golf course irrigation pending further refinement of irrigation requirement and a feasibility study for utilization of surface water sources, including Wahiawa Reservoir.

71. Written justification be provided for any 'cushion' of 0.5 mgd.

72. The water use permit shall be an interim permit. The duration of the interim permit shall be until treated wastewater is available and acceptable for use. The permittee shall continue discussions with Honolulu Board of Water Supply regarding the use of reclaimed water.

73. The permittee is put on notice that this is a qualified approval in that this permit may be modified or revoked prior to the expiration of the interim permit if the
Commission decides that the use of additional basal ground water for dust control and landscape irrigation is not reasonable-beneficial use.

74. The permittee encouraged to use drought-tolerant landscaping to conserve water.

75. Should the applicant provide written evidence that the county DHCD approves a 201E exemption for the elderly affordable housing project then the applicant may modify a corresponding portion of their existing aquacultural use to be used by the exemption approved project within the Commission approved water use permit limits under recommendation 5.

76. The applicant shall obtain a water lease/permit from Land Division prior to actual use of the well water.

77. Require the permittee to sign a contract by May 14, 1998 with the City Department of Wastewater Management to buy and use 0.400 mgd of R-1 water for a corresponding reduction in allocation for Well Nos. 1900-02, 17 to 20, and 1901-03.

78. Standard Condition 9 is waived.

79. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

80. Standard Condition 10 is waived.

81. Applicant must seek a determination from BLNR and Land Mgt Div as to whether water license required. If required, license must be obtained prior to issuance of permit. If not, permit will be issued w/out further action.

82. Commission defers action on use in excess of 452,000 gpd pending additional info from BWS and further staff analysis.

83. The permit shall be subject to the Commission’s sustainable yield review by December 1990.

84. The Commission shall delegate to the Honolulu Board of Water Supply the authority to allocate the use of water for municipal purposes, in accordance with §174C-48(b) HRS.

85. Honolulu Board of Water Supply shall be exempt from the requirements of permit modifications as provided in §174C-57.

86. BWS must participate in discussions, to be coordinated by Commission Staff, regarding a monitoring program to address impacts to Kaneohe Bay water quality, prior to any action on applications for future municipal uses.

87. A pump installation permit application must be made and approved prior to the installation of a permanent pump.
88. The water withdrawn shall be 0.7 mgd for municipal use.

89. The installed pump capacity of the well shall not be more than 700 gpm or 1.01 mgd.

90. The term of permit shall automatically expire twelve months from the date of issuance.

91. The Honolulu Board of Water Supply may continue to submit monthly water data on their own form, provided that the data are submitted in a format that is acceptable to the Commission staff.

92. Standard Condition 7 shall not apply.

93. Standard Condition 22 shall not apply.

94. Standard Condition 10 is modified to exempt the permittee from monthly measurements of salinity and temperature.

95. This permit shall be subject to conditions providing for stream restoration if the Commission determines that additional water should be returned to the streams.

96. HECO 1 mgd for industrial use

97. Campbell Estate 1 mgd for municipal use through BWS, by separate agreement with HECO

98. BWS 1 mgd for municipal use.

99. The permit shall be subject to the Commission's sustainable yield review by <Insert Date>.

100. The applicant shall obtain the current version of the Department of Health's Guidelines Applicable to Golf Courses in Hawaii. Where relevant and viable, items of the guidelines should be implemented and sustained appropriately. To obtain the current version, contact the Safe Drinking Water Branch, Environmental Management Division at [Contact Information] (Honolulu).

101. The future use portion of the application shall be deferred until existing uses in the Koolauloa area are established.

102. The water to be withdrawn under this permit shall be a total of 0.03 mgd (0.02 mgd preserved plus an additional 0.01 mgd permitted use), averaged annually, for domestic and irrigation use

103. Existing well 1851-09 shall be properly sealed by a licensed drilling contractor. A well modification permit application, enclosed, shall be submitted to the Department for approval of the well sealing. A filing fee for sealing the well will not be required.
104. The permittee is required to test the source using a certified private laboratory and submit the test results to the Commission within three (3) months. The Commission will then forward the results to the Department of Health for their review. The Department of Health recommends that the well be routinely tested for microbiological and chemical parameters thereafter.

105. The permittee is required to submit a completed Registration of Well and Declaration of Water use by <Insert Date>.

106. The permittee shall contact the Department of Health for a written determination on the status of their water system and comply with any Department of Health requirements for monitoring and testing.

107. In the event that the original spring source decontaminates, the new well authorized will be shut down.

108. That within each aquifer the total permitted use shall not exceed the sustainable yield.

109. That any water available for allocation shall be for in-district use.

110. That scheduled reductions to Oahu Sugar Co. permitted use shall be initiated upon final termination of an Osco lease or sub-lease, whichever occurs later.

111. That permits for water use issued in accordance with the proposed schedule shall be interim permits subject to review and adjustment by 1995.

112. That the permit shall be an interim permit for a new use which is afforded to existing users as specified in §13-171-20.

113. That the original allocation of 0.200 mgd shall be taken to hearing for possible revocation at a later date to complete the transfer of the water use permit entirely to Well No. 3407-02. This revocation would reduce the current allocation afforded to the Kunihiro Well (Well No. 3406-06) to zero.

114. This allocation incorporates the unspecified domestic needs of the applicant and therefore necessitates a single meter be installed at the well.

115. Should any impacts to nearby wells or streams be established by the use of this well, the applicant shall address these issues to the satisfaction of the Commission.

116. If an economically feasible nonpotable source is identified, the applicant shall convert to the alternative nonpotable source.

117. The permit shall be subject to the Chairperson's approval of a water use plan recommending possible measures to prevent or minimize saltwater contamination and establish courses of action to follow should the aquifer become to saline to use.
118. Permittee shall provide the necessary end-use information on the 10th residence to allow regulation of the use under Chapter 174C.

119. Standard Conditions 10 & 18 shall not apply.

120. Standard Condition 10 is modified to exempt the permittee from the requirement to install a flowmeter. Salt water withdrawals may instead be estimated based on pumping capacity and run time.

121. The applicant shall review the existing year long period of pumpage and streamflow data and provide analysis on ground and surface water interaction. Deadline is January 25, 1994.

122. The water use permit for Well Nos. 2301-27 to -32 for 0.75 mgd (WUP No. 419) shall be revoked upon issuance of a pump installation permit for the well.

123. The permittee shall use mulching to decrease evaporative losses and manage irrigation scheduling to minimize water demand.

124. The permittee shall submit a detailed agricultural plan to support any future water use permit application for increased agricultural use at this parcel.

125. If not already obtained, the permittee shall seek and obtain any necessary permits from the Department of Health for the proposed discharge to Malaekahana Stream.

126. Standard Condition 10 is modified to waive the requirement for installing a water meter on Well Nos. 2358-21, 22, and 29. The permittee shall install a water meter on Well No. 2358-26 to measure total monthly flow through the discharge line. This quantity should then be assumed to be the rate of natural flow from the other three wells for monthly reporting purposes.

127. The permit shall be effective upon submittal of documentation by Navy that it has met the DOH requirements for a public system.

128. This WUP shall be subject to Army’s application for a WUP to reduce the permitted use of the Army’s Schofield Shaft (2901-02 to 04, 10) by 0.208 mgd to a new total of 5.648 mgd. The Army’s application shall be submitted within 60 days after the approval of this WUP or this WUP shall be void. Approval of the modification request shall be obtained from the CWRM prior to use of Well No. 3100-02 and issuance of this WUP.

129. Navy shall submit an after-the-fact PIPA, and approval of the permit shall be obtained prior to use of the well.

130. The well shall not be used for drinking water purposes unless it is properly tested and treated.
131. This permit is approved subject to reclaimed water becoming a practical alternative and provided that the Department of Health approves the reuse application.

132. Should any opae ula be recovered in the well water, the permittee shall notify the Division of Aquatic Resources and provide specimens to the Division of Aquatic Resources for analysis.

133. If a single meter at the well is used, the Commission shall allow an additional 1,000 gallons per day to the water use permit amount for the domestic needs of two residences, although a permit for individual domestic consumption is not required. Otherwise, the applicant must provide a meter to separately measure the irrigation consumption.

134. This permit is approved under the requirement that conversion to either: 1) treated wastewater becoming available for reuse as an alternative supply source, provided that Department of Health concerns over the use of treated effluent over the potable water aquifer have been addressed; and/or 2) other nonpotable source becoming available will occur in a timely manner.

135. These permits shall be subject to a review of actual use within four years for possible modification of the permitted amount.

136. The permit shall be reviewed in two (2) years for possible additional revocation due to nonuse.

137. The allocation is based on the projects listed in Exhibit 5 (of Item 10 of the May 20, 1998 Staff Submittal), except for the Queen’s Beach GC (TMK 139-11-2,3), Lot 9 (TMK 139-17-51), and Varsity Place (TMK 128-24-35).

138. Kamehameha Schools Bishop Estate/Honolulu Board of Water Supply shall transfer the water use permit within ninety (90) days of the effective date of the transfer of the pump station to the Honolulu Board of Water Supply, pursuant to §174C-59 Hawaii Revised Statutes.

139. The permittee shall ensure that the water is recycled by either directing it into the Waiahole Ditch for use by downstream farmers (subject to the approval of the Agribusiness Development Corporation’s Board) or into Waikele Farm’s existing irrigation system.

140. The permittee shall file a completed application to modify WUP No. 758 to reduce the allocation by 0.100 mgd within 60 days. If a completed water use permit modification application is not received within 60 days from this submittal’s date, then the subject water use permit application (WUPA No. 767) shall be deemed denied without prejudice without the need for another hearing.

141. The water withdrawn shall be for municipal use. No improvements to the existing sources are required as the existing source capacities are greater than the increase.
142. Water license must be determined through LM.

143. Proposed other uses will be considered at a later date.
Water Use Permit Survey
(Please complete one survey form for each WUP)

WUP Number: 757
Well Number(s): 4158-12

Contact Information (of the person who will be present at site visit):
Name: JEFF WALLACE - MANAGER

Best time to reach for phone interview: ANYTIME

Property Information (of the water use/well location):

Well Location TMK (list all if multiple wells present): 5-6-005-016
Water Use TMK (list all if used on multiple lots): 5-6-002-010, 5-6-002-025, 5-6-07-024, 5-6-03-027, 5-6-07-031.

Water Use/Well Information:
Is the water source currently in use? Yes ☒ No ☐
If no, please explain:

What are you currently using the water for? (example: "Use for 45 acres of diversified agriculture and 3 residences"): 7 1/2 ACRES FOR DIVERSIFIED AG AND 8 RESIDENCES

Is a flow meter installed and working properly? Yes ☒ No ☐
If no, please explain:

Do you submit monthly water use reports to the State? Yes ☒ No ☐
If no, please explain:

Field Investigations:
A representative from Brown and Caldwell will be visiting wells in your area over the next several months between the times of 9:00 am and 5:00 pm. Each site investigation will take approximately 1-2 hours. Please indicate up to three potential days of the week and availability times for an on-site inspection of the well location and verification of water use compliance. The permit holder must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.

Option #1 Date (MM-DD-YY): 12-10-01 Time: 9:00 am ☒ 12:00 pm ☐ 3:00 pm ☐
Option #2 Date (MM-DD-YY): 12-11-01 Time: 9:00 am ☒ 12:00 pm ☐ 3:00 pm ☐
Option #3 Date (MM-DD-YY): 12-12-01 Time: 9:00 am ☒ 12:00 pm ☐ 3:00 pm ☐

Once this survey is returned, a Brown and Caldwell representative will be contacting you to conduct a phone interview and finalize the exact date and time of your field investigation. Please fax/mail completed surveys by December 12th, 2007 and direct any questions related to this survey to Mr. Milo Smith of Brown and Caldwell at:
1099 Alakea Street, Suite #2400
Honolulu, HI 96813
Tel: (808) 203-2661
Fax: (808) 533-0226
mcsmith@hrwncald.com

For Official Use Only
Received: 11/20/07  Information Updated: 11/20/07  Phone Interview Complete: 1/6/08
Notes/Comments:
Phone Interview

WUP Number: 757
Well Number(s): 4158-12

Contact Name: Jeff Wallace

Attempt #1: Date/Time: 1/6/08 - 9:00
Result: Reached

Attempt #2: Date/Time: N/A
Result: N/A

Well Location TMK(s): 5-6-005-016
Water Use TMK(s): Various (see survey form)

Water Source Address: [Redacted]

Currently using water source? Yes ☒ No ☐

How often is the water source being used? Daily ☒ Weekly ☐ Monthly ☐

How long have you been using this water source?: 50 + years

Has there been any rezoning of the water source/water use properties? Yes ☐ No ☒

Have you reported the rezoning to the State? Yes ☐ No ☒ N/A ☒

If no, explain:

Scheduled field investigation day/time: 1/14/08 @ 12:00

Notes (Special directions, site conditions, potential hazards, general notes, etc.):

• Send reminder email (Sent 1/6/08 @ 9:10 a.m.)
• 1 mile past Turtle Bay - Yellow Gate
• Located at a "Military Only" installation

• Well 4158-13 appears to have been associated w/4158-12 in the past, but is not listed as a well for the most current WUP.
Comments To Make:

- Although we prefer that you do not change your scheduled field investigation time, if you require a reschedule, you must provide Brown and Caldwell with at least five (5) working days notice of the need to reschedule.
- A representative from Brown & Caldwell will be making a reminder phone call to you sometime during the week prior to your scheduled field investigation.
- It is very important that you provide access to the site at the day and time agreed upon. Due to a very tight schedule, if you fail to provide access at the agreed upon time and/or do not reschedule with at least a five (5) working day notice, a makeup date will not be allowed.
- If for some reason you don't know where your well head is located, it would be a good idea to locate it prior to your field investigation to help make the visit go quickly and smoothly.
- Other

Diversified Ag Promotions LLC
- Address for permittee: P.O. Box 1350
- LO Santa Rosa Beach, FL 32459
- Verify if this is correct: ✓

WUP Transferred in 2005. Do you know who the previous owner was? Campbell Estate? ✓
Field Investigation Checklist

WUP Number: 757
Well Number(s): 4156-12

Water Source
Well Location TMK(s): 5-6-006.016
Well Head GPS Coordinates: Latitude: 21°41.415', Longitude 157°56.605' (+15)
Well Type: Pump
Currently using water source? Yes ☑ No □
Notes/Comments: 

Is there a flow meter installed? Yes ☑ No □
Is the flow meter operational Yes ☑ No □
Notes/Comments: Flow meter is brand new.

Water Use
Water Use TMK(s): Various (see survey)
What is the water being used for? Residences in Kaaawa & their crops
Is the water being used within the permitted boundaries? Yes ☑ No □
If no, explain ________________________________
Is there any observed wasting of water or water loss? Yes □ No ☑
If no, explain ________________________________
Are the permit conditions being complied with? Yes ☑ No □
If no, explain: All good.

Other
Photographs of: Water Source ☑ Water Meter ☑ Usage Area Pump/Motor ☑
General Notes/Comments: 6" pipe (used to be 6") up to ton tank then gravity fed to usage area. System was just upgraded.
• Delivery pipe is PVC; being replaced w/ HDPE as the PVC breaks
• Chlorination system to make water potable.

Investigated By: M.S. Date: 1/11/27 Time: 11:30 am
Ms. Donna B. Goth
Estate of James Campbell

Dear Ms. Goth:

Approval of Water Use Permit for Well No. 4158-12
Koolauloa Ground-Water Management Area, Oahu

This letter transmits your water use permit for Kahuku Air Base Wells (Well No.4158-12) for use of 0.200 million gallons per day (mgd) of water on a 12-month moving average basis that was approved by the Commission on Water Resource Management (Commission) on March 15, 2000. As part of the Commission's approval, the following special conditions were added and are part of your permit under Standard Permit Condition 20:

Special Conditions

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. This interim water use permit shall cease to become interim and shall be subject to Haw. Rev. Stat. §174C-55 upon administrative review of the quantity within 5 years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form

Please be sure to read the conditions of your approved permit.
We draw your attention to two key conditions of your permit that require your response.

First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.

Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Koolauloa Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

If you have any questions, please call Ryan Imata of the Commission staff at 5-6777.

Aloha,

TIMOTHY E. JOHNS
Chairperson

Attachments
PERMITTEE

<table>
<thead>
<tr>
<th>Permittee/Water User</th>
<th>Landowner of Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estate of James Campbell</td>
<td>Same</td>
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</tbody>
</table>

PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>Oahu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Management Area</td>
<td>Windward</td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>Koolauloa</td>
</tr>
<tr>
<td>Aquifer System</td>
<td></td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>35</td>
</tr>
<tr>
<td>Well Name</td>
<td>Kahuku Air Base Wells</td>
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<tr>
<td>State Well No.</td>
<td>4158-12</td>
</tr>
</tbody>
</table>

PERMITTED USE INFORMATION

<table>
<thead>
<tr>
<th>Reasonable beneficial use</th>
<th>Domestic/Agricultural/Aquaculture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal (12 month moving ave.)</td>
<td>0.200 mgd</td>
</tr>
<tr>
<td>Location of water use</td>
<td>Various</td>
</tr>
<tr>
<td>TMK #</td>
<td>Kahuku</td>
</tr>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>State land use classification</td>
<td>Agricultural / Conservation</td>
</tr>
<tr>
<td>County zoning classification</td>
<td>Ag</td>
</tr>
</tbody>
</table>

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its March 15, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. Protect the water sources (quantity or quality);
   b. Meet other legal obligations including other correlative rights;
   c. Insure adequate conservation measures;
   d. Require efficiency of water uses;
   e. Reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. Meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. Carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. If the ground-water source does not presently exist, the new well shall be completed, i.e. able to withdraw water for the proposed use on a regular basis, within twenty-four (24) months from the date the water use permit is approved.

11. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).

12. This permit shall be subject to the Commission's periodic review of the Koolauloa Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Koolauloa Aquifer System, or relevant modified aquifer(s), is reduced.

13. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.
14. The use(s) authorized by law and by this permit do not constitute ownership rights.

15. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee's water use.

16. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

17. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Koolauloa Ground-Water Management Area.

18. The water use permit granted shall be an interim water use permit, pursuant to HAR § 13-167-3(6). The final determination of the water use quantity shall be made within five years of the filing of the application.

19. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

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

21. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

TIMOTHY E. JOHNS, Chairperson
Commission on Water Resource Management

Attachment
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR WATER USE PERMIT

Instructions: Please print in ink or type end send 15 copies of completed application with attachments to the Commission on Water Resource Management. Application must be accompanied by a non-refundable filing fee of $25.00 payable to the Dept of Land and Natural Resources. The Commission may not accept incomplete applications. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/dwrm/acrobat/Forms/wupa.pdf

PERMIT INFORMATION
1. (a) APPLICANT
   Firm Name: The Estate of James Campbell
   Contact Person: Donna B. Goth
   Phone: (808) 266-5945
   Email: 

2. WATER MANAGEMENT AREA: Windward, Oahu, Koolau
   ISLAND: Oahu

3. (a) EXISTING WELL/STREAM DIVERSION NAME AND STATE NUMBER: Kahuku Air Base Well #4156-12 & 13
   (If source doesn’t presently exist, please attach well construction/stream diversion permit or application)

4. PROPOSED WELL/STREAM DIVERSION NAME: N/A
   (c) LOCATION: Kahuku, Oahu, Hawaii
   Tax Map Key: 5-6-0507
   (Attach and show source location on a USDA map, scale 1-2000, and a property tax map)

5. SOURCE TYPE: (check one): Water Well Pump or Diverted Surface Water Other (explain)

6. METHOD OF TAKING WATER: (check one): Artesian Well Pump Diverted Surface Water Other (explain)

7. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) PUC-Regulated Private System
   (b) Non-PUC-Regulated Private System

8. QUANTITY OF WATER REQUESTED: 200,000 gallons per day (averaged over 1 year)

9. METHOD OF MEASUREMENT: Flowmeter Open-pipe Water Orifice Other (explain)

10. QUALITY OF WATER REQUESTED: Fresh Brackish Salt Potable Non-Potable

11. PROPOSED USE: Municipal (including hotels, stores, etc.) Individual Domestic Irrigation Industrial Military Other (explain)

12. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION: 24 hours per day

13. APPLICANT MUST ESTABLISH THAT THE PROPOSED USE OF WATER:
   (a) Can be accommodated with the available water source.
   (b) Is in a reasonable-beneficial use. *
   (c) Will not interfere with any existing legal use.
   (d) Is consistent with the public interest.
   (e) Is consistent with state and county general plans and land use designations.
   (f) Is consistent with county land use plans and general policies.

* Section 13-171-2, Hawaii Revised Statutes - "reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is not wasteful and is both reasonable and consistent with the state and county land use plans and the public interest.

14. REMARKS, EXPLANATIONS: (see next page)

NOTE: Signing below indicates that the signatories understand and swear that: 1) the information provided on this application is accurate and true to the best of their knowledge; 2) item 11 is the responsibility of the applicant prior to Commission approval; 3) if necessary, further information may be required before the application is considered complete; 4) if a water use permit is granted by the Commission, the permit is subject to prior existing permitted uses, changes in sustainable yields and stream flow standards, reserved uses as defined by the Commission, and Hawaiian Homes Land future uses; and 5) upon permit approval, a water-shortage plan must be submitted by the applicant should the Commission require one.

Applicant (print): The Estate of James Campbell
Landowner (print): The Estate of James Campbell
Signature: ____________________________
Date: 6/30/99

WUPAFORM (6/22/99)
http://www.hawaii.gov/dlnr/dwrm/acrobat/Forms/wupa.pdf
06/30/1999
**STATE OF HAWAII**
**COMMISSION ON WATER RESOURCE MANAGEMENT**
**DEPARTMENT OF LAND AND NATURAL RESOURCES**
**DIVISION OF WATER RESOURCE MANAGEMENT**

**REGISTRATION OF WELL**
**AND DECLARATION OF WATER USE**

**INSTRUCTIONS:** Please type or print. If information is not available or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management. Phone 808-586-5465 for assistance.

**BATTERY OF WELLS:** For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

<table>
<thead>
<tr>
<th>STATE WELL NO.:</th>
<th>ISLAND:</th>
<th>[4158-12] Oahu</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELL NAME OR DESIGNATION:</td>
<td></td>
<td>399-A Kahuku Airbase</td>
</tr>
<tr>
<td>SOURCE OR STATION NAME (For a battery of wells):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**A. WELL OPERATOR**

Firm name: Campbell Estate  
Contact person: Don Hoala

**B. OWNER OF WELL SITE**

Firm name: Campbell Estate  
Contact person: Sam Keala

**C. WELL LOCATION**

Tax Map Key: 5-6-057  
Town, Place, District: Koolau, Kahuku

Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

**D. WELL DATA**

For Drilled Wells, submit "as built" drawing, driller's log, and pump test results, and complete items below. For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

- **Ground elevation (Mean sea level):** 60 ft.
- **Reference point (used to measure depth to water):**
  - Elevation: 61.0 ft.
  - Description: Concrete pad
- **Depth to water (below reference point):** 111 ft.
- **Maximum recorded chloride:** 215 ppm
- **Minimum recorded chloride:** 180 ppm
- **Year drilled or constructed:** 1942-43
- **Well contractor:** Nat Whiton
- **Casing diameter:** 12 in.
- **Solid casing depth (below ground):** 111 ft.
- **Perforated casing depth (below ground):** 111 ft.
- **Total depth of well:** 250 ft.
- **Minimum chloride in 1988:** 145 ppm

**E. INSTALLED PUMP DATA**

- **Pump type:** □ Vertical shaft □ Submersible □ Centrifugal □ Other (specify):
- **Power:** □ Diesel, ___ HP □ Gas, ___ HP □ Electric, ___ HP □ Other (specify):
- **Pump capacity:** 400 gallons per minute
- **Pump installation contractor:** Roscoe Hoala
# Registration of Well and Declaration of Water Use

**State Well No.:** 4158-13  
**Island:** Oahu

**Well Name or Designation:** 339-B Kahuku

## A. Well Operator
- **Firm Name:** Campbell Estate
- **Contact Person:** Sam Keala

## B. Owner of Well Site
- **Firm Name:** Campbell Estate
- **Contact Person:** Sam Keala

## C. Well Location
- **Tax Map Key:** 5-6-05:7  
- **Town, Place, District:** Koolauloa, Kahuku

Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

## D. Well Data

For Drilled Wells, submit "as-built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

- **Ground Elevation (Mean Sea Level):** 62 ft.
- **Year Drilled or Constructed:** 1945
- **Well Contractor:** Mullin
- **Casing Diameter:** 12 in.
- **Solid Casing Depth (Below Ground):** 114 ft.
- **Perforated Casing Depth (Below Ground):** ft.
- **Total Depth of Well:** 252 ft.
- **Minimum Chloride in 1987:** ppm

## E. Installed Pump Data

- **Pump Type:** [ ] Vertical Shaft  [ ] Submersible  [ ] Centrifugal  [ ] Other (specify): None
- **Power:** [ ] Diesel, _ HP  [ ] Gas, _ HP  [ ] Electric, _ HP  [ ] Other (specify): 
- **Pump Capacity:** _ gallons per minute
- **Pump Installation Contractor:**

... (continued over)
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

REGISTRATION OF WELL
AND DECLARATION OF WATER USE

INSTRUCTIONS: Please type or print. If information not available, or not applicable, indicate as N/A. Fill out as completely as possible, sign, and file form with the Division of Water Resource Management. Call 974-2076 for assistance.

BATTERY OF WELLS: For a battery of wells, on the surface, in a tunnel, or in a shaft, submit a registration form for each well together with a single map or plot plan showing layout of wells.

STATE WELL NO.: 4158-12
ISLAND: Oahu
WELL NAME OR DESIGNATION: 339-A Kahuku Airbase
SOURCE OR STATION NAME (For a battery of wells):

A. WELL OPERATOR
Firm name: Campbell Estate
Contact person: Sam Keala

B. OWNER OF WELL SITE
Firm name: Campbell Estate
Contact person: Sam Keala

C. WELL LOCATION
Tax Map Key: 5-6-05-7 Town, Place, District: Koolauloa, Kahuku
Attach USGS "Quad" map (scale 1:24,000), tax map, or other map showing the well location.

D. WELL DATA
For Drilled Wells, submit "as built" drawing, driller's log, and pump test results, and complete items below.
For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.

<table>
<thead>
<tr>
<th>Ground elevation (mean sea level): 60 ft.</th>
<th>Year drilled or constructed: 1942-43</th>
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</thead>
<tbody>
<tr>
<td>Reference point (used to measure depth to water): 61.0 ft.</td>
<td>Well contractor: Nat Whiton</td>
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<tr>
<td>Description: Concrete pad</td>
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<tr>
<td>Depth to water (below reference point): 111 ft.</td>
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</tr>
<tr>
<td>Maximum recorded chloride: 215 ppm</td>
<td></td>
</tr>
<tr>
<td>Minimum recorded chloride: 180 ppm</td>
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</tr>
<tr>
<td>Maximum chloride in 1987: 145 ppm</td>
<td></td>
</tr>
<tr>
<td>Casing diameter: 12 in.</td>
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</tr>
<tr>
<td>Solid casing depth (below ground): 111 ft.</td>
<td></td>
</tr>
<tr>
<td>Perforated casing depth (below ground): 250 ft.</td>
<td></td>
</tr>
<tr>
<td>Total depth of well: 250 ft.</td>
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<tr>
<td>Minimum chloride in 1987: 145 ppm</td>
<td></td>
</tr>
</tbody>
</table>

E. INSTALLED PUMP DATA

<table>
<thead>
<tr>
<th>Pump type:</th>
<th>Vertical shaft</th>
<th>Submersible</th>
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<tbody>
<tr>
<td>Power:</td>
<td>Diesel, 20 HP</td>
<td>Gas, 10 HP</td>
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<tr>
<td>Pump capacity:</td>
<td>400 gallons per minute</td>
<td></td>
</tr>
<tr>
<td>Pump installation contractor:</td>
<td>Roscoe Moss</td>
<td></td>
</tr>
</tbody>
</table>

(continued over)
STATE WELL NO.: 4158-13  
WELL NAME OR DESIGNATION: 339-B Kahuku  
SOURCE OR STATION NAME:  

<table>
<thead>
<tr>
<th>A. WELL OPERATOR</th>
<th>B. OWNER OF WELL SITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firm name: Campbell Estate</td>
<td>Firm name: Campbell Estate</td>
</tr>
<tr>
<td>Contact person: Sam Keala</td>
<td>Contact person: Sam Keala</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. WELL LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tax Map Key: 5-6-05:7</td>
</tr>
<tr>
<td>Attach USGS &quot;Quad&quot; map (scale 1:24,000), tax map, or other map showing the well location.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. WELL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Drilled Wells, submit &quot;as-built&quot; drawing, driller's log, and pump test results, and complete items below.</td>
</tr>
<tr>
<td>For Tunnels and Shafts, submit construction drawings, plot plan, or sketch map.</td>
</tr>
<tr>
<td>Ground elevation (Mean sea level): 62 ft.</td>
</tr>
<tr>
<td>Reference point (used to measure depth to water): ft.</td>
</tr>
<tr>
<td>Elevation: ft.</td>
</tr>
<tr>
<td>Description:</td>
</tr>
<tr>
<td>Depth to water (below reference point): ft.</td>
</tr>
<tr>
<td>Maximum recorded chloride: ppm</td>
</tr>
<tr>
<td>Minimum recorded chloride: ppm</td>
</tr>
<tr>
<td>Elevation:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E. INSTALLED PUMP DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump type: Submersible</td>
</tr>
<tr>
<td>Submersible</td>
</tr>
<tr>
<td>Centrifugal</td>
</tr>
<tr>
<td>Other (specify): None</td>
</tr>
<tr>
<td>Pump capacity: 500 gallons per minute</td>
</tr>
</tbody>
</table>

... (continued over)
Approval of Water Use Permit (WUP No. 757) for Well Nos. 4158-12 & 4158-13
Koolauloa Ground-Water Management Area, Oahu

This letter transmits your water use permit for Kahuku Airbase Wells (Well No. 4158-12 & 4158-13) for use of 0.300 million gallons per day (mgd) of water on a 12-month moving average basis that was transferred via Campbell Estate’s representative’s letter dated October 24, 2005 for their former Water Use Permit No. 612. As part of the Commission’s approval, the following special conditions were added and are part of your permit under Standard Permit Condition 19:

Special Conditions

1. Should an alternate permanent source of water be found for this use, then the Commission reserves the right to revoke this permit, after a hearing.

2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.

3. Standard Condition 16 is waived for salt water wells.

Enclosed with this letter of approval are the following:

1. Your water use permit
2. Your official monthly water use report form

Please be sure to read the conditions of your approved permit.

We draw your attention to two key conditions of your permit that require your response. First, you are required to keep a record of your monthly total pumpage, water level, salinity, and water temperature. This information must be submitted to the Commission on a regular monthly basis using the enclosed water use report form. You should make copies of the enclosed report form as needed.
Second, you are required to submit a water shortage plan to the Commission within thirty (30) days of the issuance date of this permit. Your water shortage plan simply identifies what you are willing to do should the Commission declare a water shortage situation in the Koolauloa Ground-Water Management Area and can be as short as a one page letter. In a water shortage situation, the Commission may require temporary reductions in pumpage from all sources. The Commission is required, by law, to formulate a plan to implement such area-wide reductions, which should accommodate, include, and be consistent with your plans. Therefore, your help, by submitting your water shortage plan, is greatly needed in formulating the Commission's overall Water Shortage Plan.

If you have any questions, please call Ryan Imata of the Commission staff at

Sincerely,

Peter T. Young
Chairperson

c: Peter Gibson, Campbell Estate
   Linnel Nishioka, Morihara Lau and Fong LLP
GROUND-WATER USE PERMIT
WUP NO. 757

PERMITTEE

<table>
<thead>
<tr>
<th>Permittee/Water User</th>
<th>Landowner of Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Diversified Ag Promotions LLC</td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PERMITTED SOURCE INFORMATION

<table>
<thead>
<tr>
<th>Island</th>
<th>Oahu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Management Area</td>
<td></td>
</tr>
<tr>
<td>Aquifer Sector</td>
<td>Windward</td>
</tr>
<tr>
<td>Aquifer System</td>
<td>Koolauloa</td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>35</td>
</tr>
<tr>
<td>Well Name</td>
<td>Kahuku Airbase Wells</td>
</tr>
<tr>
<td>State Well No.</td>
<td>4158-12 &amp; 4158-13</td>
</tr>
</tbody>
</table>

PERMITTED USE INFORMATION

<table>
<thead>
<tr>
<th>Reasonable beneficial use</th>
<th>Various</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal (12 month moving ave.)</td>
<td>0.300 mgd</td>
</tr>
<tr>
<td>Location of water use</td>
<td></td>
</tr>
<tr>
<td>TMK #</td>
<td>5-6-05:07</td>
</tr>
<tr>
<td>State land use classification</td>
<td>AG</td>
</tr>
<tr>
<td>County zoning classification</td>
<td>AG</td>
</tr>
</tbody>
</table>

Pursuant to Hawaii's State Constitution, Article XI, Section 7, Hawaii Revised Statutes, Chapter 174C; Hawaii Administrative Rules, Chapters 13-167 through 13-171; and Hawaii decisional law and custom, the permittee is hereby authorized to use ground water from the sources and in the amount and from and upon the locations described above; subject however, to the requirements of law including but not limited to the following conditions:
1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)

2. The right to use ground water is a shared use right.

3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
   a. Can be accommodated with the available water source;
   b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
   c. Will not interfere with any existing legal use of water;
   d. Is consistent with the public interest;
   e. Is consistent with State and County general plans and land use designations;
   f. Is consistent with County land use plans and policies; and
   g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).

4. The ground-water use here must not interfere with surface or other ground-water rights or reservations.

5. The ground-water use here must not interfere with interim or permanent instream flow standards. If it does, then:
   a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
   b. The interim or permanent instream flow standard, as applicable, must be amended.

6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.

7. The water use permit application and submittal, as amended, approved by the Commission at its March 15, 2000 meeting are incorporated into this permit by reference.

8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.

9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
   a. protect the water sources (quantity or quality);
   b. meet other legal obligations including other correlative rights;
   c. insure adequate conservation measures;
   d. require efficiency of water uses;
   e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
   f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
   g. carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

10. An approved flowmeter(s) must be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a monthly basis (attached).
11. This permit shall be subject to the Commission's periodic review of the Koolauloa Aquifer System's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the Koolauloa Aquifer System, or relevant modified aquifer(s), is reduced.

12. A permit may be transferred, in whole or in part, from the permittee to another, if:
   a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
   b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer, which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

13. The use(s) authorized by law and by this permit do not constitute ownership rights.

14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances that will affect the permittee's water use.

15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of forfeiture.

16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the Koolauloa Ground-Water Management Area.

17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.

18. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

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

W. Roy Young

PETER T. YOUNG, Chairperson
Commission on Water Resource Management
**State of Hawaii**  
**COMMISSION ON WATER RESOURCE MANAGEMENT**  
**Department of Land and Natural Resources**  
**MONTHLY GROUND WATER USE REPORT**

**Name:** Diversified Ag Promotions  
**Company:**  
**Address:**  
**Telephone No.:**  
**Fax No.:**  
**Report Month:**  
**Year:**

**INSTRUCTIONS:** Please TYPE OR PRINT CLEARLY. Complete this form to report total monthly ground water use, and, if required, other information from each of your well sources. Mail to: Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809. For assistance, please call (808) 587-0265.

<table>
<thead>
<tr>
<th>State Well No.</th>
<th>Well Name</th>
<th>Period Begin Date (mm/dd/yy)</th>
<th>Period End Date (mm/dd/yy)</th>
<th>Quantity Pumped (gallons)</th>
<th>Method of Measurement*</th>
<th>Chloride (mg/l)</th>
<th>Temp. (°F)</th>
<th>Non-Pumping Water Level (ft. above msf)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>4158-12</td>
<td>Kahuku Air Base</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4158-13</td>
<td>Kahuku Air Base</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Flow meter, electrical consumption, weir or flume, not metered (estimated).  
** Measurement should be taken while pump is NOT running just prior to a pumping cycle; if measurement is taken while pump is running, please indicate so.

Other comments or additional information (e.g., date and method of chloride measurement, how pumpage amounts are estimated, etc.):

Submitted by (print): ___________________________  Title: ___________________________

Signature: ___________________________  Date: ___________________________

GWUR-MON FORM (06/10/2004)
Proposed Battery Designations and Allocation Changes
Water Use Permit Numbers 465, 244, 524, 345, 3, 238, and 228
Koolauloa Aquifer, Kahuku

The Estate of James Campbell ("Estate") is requesting designation of two well batteries in the Kahuku area and some minor transfers of water allocations affecting the above-mentioned permits. The purpose of this request is to better balance water use among some of our very small systems and to recognize the true battery nature of two of the Estate well systems. There is no net increase or decrease to the total allocation of the wells being discussed. There is no change in location or nature of use for any of the wells discussed herein. The proposed transfers are in the same aquifer and the wells where the transfers are requested are in close proximity. All of the proposed battery designations and requested allocations are summarized in Exhibit "A" as attached.

We propose that well numbers 4159-01 (KP2) and 4159-02 (KP2A) be designated as a single battery with a single allocation and called the "KP2 Battery". The pumps pull from the same source and are about 50 feet apart. We also request that 0.100 mgd of the combined allocation of 1.175 mgd at the proposed KP2 Battery be transferred to well number 4158-12 (Kahuku Airbase). The new allocation for Kahuku Airbase would be 0.300 mgd. We request the increase at Kahuku Airbase to facilitate the increasing needs of our aquaculture and other tenants currently served by the system as well as several current private users of this potable water system. The current twelve-month moving average (12 MAV) is nearing the current allocation of 0.200 mgd for the Kahuku Airbase system.

Similarly, we propose that well numbers 3957-01 (KP3) and 3957-03 (KP3A) also be designated as a single battery with a single allocation and called the "KP3 Battery". The pumps are located within the same fence and are about 30 feet apart. We also request that 0.040 mgd of the combined allocation of 1.284 mgd at the proposed KP3 Battery be transferred to well number 3957-07 (KP6) and 3956-01 (Malaekahana/KP7). The new allocation at KP6 would be 0.026 mgd and the new allocation at Malaekahana/KP7 would be 0.062 mgd. Each of these wells would be increased by 0.020 mgd transferred from the proposed KP3 Battery. KP6 serves several pasture areas and we have had difficulty managing the very small current allocation of 0.006 mgd that has been exacerbated by the extended drought conditions. The Malaekahana/KP7 potable water system serves approximately 34 users generally located makai of Kamehameha Highway. Our June 2001 calculation of the 12 MAV for Malaekahana/KP7 was 0.006 mgd.
MAV for the system showed that we had just edged 0.001 mgd over the current allocation. Although this system is slated to be replaced by a system to be dedicated to the Board of Water Supply within the next year or so, we are requesting the small allocation increase to avoid pumping over our allocation. We have worked with several users on the system to reduce problems they have had with high water usage, but we also believe the higher usage is related to the drought.

We appreciate your consideration of these minor changes to help us better manage our small systems in Kahuku. If you have any questions on this matter, please call Bert Hatton at

Very truly yours,

[Signature]
Donna B. Goth
Director, Hawaii Properties

Attachments

jck:01045300\K10181
Exhibit "A"
PROPOSED BATTERY DESIGNATIONS AND PROPOSED ALLOCATION CHANGES
The Estate of James Campbell
Kahuku Wells

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Well Number</th>
<th>Permit Number</th>
<th>Current Allocation MGD</th>
<th>Proposed Battery</th>
<th>Proposed Allocation Change MGD</th>
<th>Proposed New Allocation MGD</th>
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</thead>
<tbody>
<tr>
<td>KP2</td>
<td>4159-01</td>
<td>465</td>
<td>1.174</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KP2A</td>
<td>4159-02</td>
<td>244</td>
<td>0.001</td>
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</tr>
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<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>1.175</strong></td>
<td><strong>KP2 Battery</strong></td>
<td>(0.100)</td>
<td>1.075</td>
</tr>
<tr>
<td>Kahuku Airbase</td>
<td>4158-12</td>
<td>524</td>
<td>0.200</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>1.284</strong></td>
<td><strong>KP3 Battery</strong></td>
<td>(0.040)</td>
<td>1.244</td>
</tr>
<tr>
<td>KP3</td>
<td>3957-01</td>
<td>345</td>
<td>0.095</td>
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<tr>
<td>KP3A</td>
<td>3957-03</td>
<td>3</td>
<td>1.189</td>
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<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
<td><strong>1.284</strong></td>
<td><strong>KP3 Battery</strong></td>
<td>(0.040)</td>
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<tr>
<td>KP6</td>
<td>3957-07</td>
<td>238</td>
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<td>Malaekahana (KP7)</td>
<td>3956-01</td>
<td>228</td>
<td>0.042</td>
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</tr>
<tr>
<td><strong>Totals(Check)</strong></td>
<td><strong>Totals(Check)</strong></td>
<td><strong>Totals(Check)</strong></td>
<td><strong>2.707</strong></td>
<td><strong>0.000</strong></td>
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<td><strong>2.707</strong></td>
</tr>
</tbody>
</table>
October 17, 2002

Ms. Linnel Nishioka
Deputy Director
Commission on Water Resource Management

Dear Ms. Nishioka:

Transfer of Certain Water Use Permits Held by
The Estate of James Campbell to Aina Nui Corporation

This letter will notify the Commission on Water Resource Management (CWRM) of the transfer, as of July 23, 2002, of certain The Estate of James Campbell ("Estate") water use permits (WUP) and wells to Aina Nui Corporation ("ANC"). This results from a land exchange between the Estate and ANC of certain lands in Kahuku and Ewa. ANC is an affiliate of the Estate. The following table lists the wells:

**FRESH WATER WELLS**

<table>
<thead>
<tr>
<th>Water Use Permit</th>
<th>Well Number</th>
<th>Well Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>239</td>
<td>4100-01</td>
<td>Palmer G.C.</td>
</tr>
<tr>
<td>611</td>
<td>4159-01</td>
<td>KP2</td>
</tr>
<tr>
<td></td>
<td>4159-02</td>
<td>KP2A</td>
</tr>
<tr>
<td>612</td>
<td>4158-12</td>
<td>Kahuku Airbase</td>
</tr>
</tbody>
</table>

**SALT WATER WELLS**

<table>
<thead>
<tr>
<th>Water Use Permit</th>
<th>Well Number</th>
<th>Well Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>249</td>
<td>4258-05</td>
<td>T. Astro Salt</td>
</tr>
<tr>
<td>250</td>
<td>4258-08</td>
<td>Amor RCA Salt 1</td>
</tr>
<tr>
<td>251</td>
<td>4258-12</td>
<td>Amor Pact Salt 1</td>
</tr>
<tr>
<td>252</td>
<td>4258-14</td>
<td>Amor RCA Salt 2</td>
</tr>
<tr>
<td></td>
<td>4258-06</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4258-07</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4258-13</td>
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<td></td>
<td>4258-16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4258-17</td>
<td></td>
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<tr>
<td></td>
<td>4258-04</td>
<td></td>
</tr>
</tbody>
</table>
Ms. Linnel Nishioka  
October 17, 2002  
Page 2  

This notification of the transfer of permits for the use of water associated with the above wells is made pursuant to section 174C-59 of the State Water Code. The conditions of use of the permits will remain the same.

Applications were made on most of the wells in this list. As we have discussed with you, some of the salt water wells in the above list have WUP numbers assigned and some do not. Our files indicate that CWRM took action approving certain allocations in the early 1990's but may never have issued actual permits. We would like to work with you on cleaning up this administrative matter.

Please call me at [Redacted] if you have any questions.

Sincerely,

[Signature]

Bert L. Hatton  
Manager, Agriculture/  
Natural Resources

dlp:01040901\K10602
Ingrid-

Here is a GIS project for you. We need to put the areas that are allocated on the map. Let's talk about it when you're available.

Piran
<table>
<thead>
<tr>
<th>TO:</th>
<th>INIT.</th>
<th>TO:</th>
<th>INIT.</th>
<th>FOR:</th>
<th>PLEASE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAUER, G.</td>
<td></td>
<td>LUM, A.</td>
<td></td>
<td>Approval</td>
<td>See Me</td>
</tr>
<tr>
<td>CHING, F.</td>
<td></td>
<td>NAKAMA, L.</td>
<td></td>
<td>Signature</td>
<td>Review &amp; Comment</td>
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<tr>
<td>DANBARA, S.</td>
<td></td>
<td>NAKANO, D.</td>
<td></td>
<td>Information</td>
<td>Take Action</td>
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<tr>
<td>FUJII, N.</td>
<td></td>
<td>NISHIOKA, L.</td>
<td></td>
<td></td>
<td>Type Draft</td>
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<tr>
<td>HARDY, R.</td>
<td></td>
<td>OHYE, M.</td>
<td></td>
<td></td>
<td>Type Final</td>
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<tr>
<td>HIGA, D.</td>
<td></td>
<td>SAKODA, E.</td>
<td></td>
<td></td>
<td>File</td>
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<tr>
<td>HIRANO, E.</td>
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<td>SUBIA, S.</td>
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<tr>
<td>ICE, C.</td>
<td></td>
<td>SWANSON, S.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>IMATA, R.</td>
<td></td>
<td>UYENO, D.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>JINNAI, R.</td>
<td></td>
<td>YODA, K.</td>
<td></td>
<td></td>
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<tr>
<td>KUNIMURA, I.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Mr. Ryan Imata  
Commission on Water Resource Management  
State of Hawaii  
Department of Land and Natural Resources  

Dear Ryan:

Colored TMK Maps for Water Use Permit  
as submitted on June 30, 1999 - Kahuku Air Base Water System

As requested, enclosed please find colored copies of the TMK maps that coincide with the attached Table 1. Please note that Table 1 was revised to correct the TMK for the State of Hawaii.

If you have any questions, please call me at [redacted]

Best wishes for a prosperous New Year!

Sincerely,

Bert L. Hatton  
Manager, Agriculture/Natural Resources

Enclosures

jck:01045301\K10012
### Table 1. Multiple TMKs To Use Requested Water  
(Revised 12/27/99)

<table>
<thead>
<tr>
<th>Project Name</th>
<th>New Use At Time of Designation</th>
<th>Potable or NonPotable</th>
<th>TMK</th>
<th>Current County Zoning Code</th>
<th>Units of Net Usage</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Total GPD (Average)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anamizu, Douglas</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>Potable 5-6-03-26 (por.)</td>
<td>Ag</td>
<td>5 ac.</td>
<td>3,153</td>
<td>3,300</td>
<td>3,300</td>
<td>3,300</td>
<td>3,300</td>
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<tr>
<td>Anamizu, Douglas (Kam Hwy)</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>Potable 5-6-03-01 (por.)</td>
<td>Ag</td>
<td>24.821 ac.</td>
<td>16,904</td>
<td>25,000</td>
<td>32,000</td>
<td>36,000</td>
<td>38,000</td>
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<tr>
<td>Mock-Chew, Bernard</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>Potable 5-6-03-10 (por.)</td>
<td>Ag</td>
<td>15.331 ac.</td>
<td>2,853</td>
<td>2,853</td>
<td>2,853</td>
<td>2,853</td>
<td>2,853</td>
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<tr>
<td>Mock-Chew, Bernard</td>
<td>Residential site</td>
<td>Existing</td>
<td>Potable 5-6-03-10 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>1,061</td>
<td>1,061</td>
<td>1,061</td>
<td>1,061</td>
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<tr>
<td>Casuga, John</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>Potable 5-6-03-38 (por.)</td>
<td>Ag</td>
<td>15.0 ac.</td>
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<td>3,310</td>
<td>3,310</td>
<td>3,310</td>
<td>3,310</td>
</tr>
<tr>
<td>Casuga, John</td>
<td>Residential site</td>
<td>Existing</td>
<td>Potable 5-6-03-38 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>2,181</td>
<td>2,181</td>
<td>2,181</td>
<td>2,181</td>
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<tr>
<td>Colburn, John</td>
<td>Agricultural farming</td>
<td>Existing</td>
<td>Potable 5-6-03-25</td>
<td>Ag</td>
<td>8.907 ac.</td>
<td>608</td>
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<tr>
<td>Colburn, John</td>
<td>Residential site</td>
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<td>Potable 5-6-03-25</td>
<td>Ag</td>
<td>1 unit</td>
<td>405</td>
<td>405</td>
<td>405</td>
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<tr>
<td>Hawaiian Marine Enterprises</td>
<td>Aquaculture farming</td>
<td>New</td>
<td>Potable 5-6-02-09 (por.)</td>
<td>Ag</td>
<td>9.75 ac.</td>
<td>23,766</td>
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<td>Residential site</td>
<td>New</td>
<td>Potable 5-6-02-09 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>663</td>
<td>663</td>
<td>663</td>
<td>663</td>
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<tr>
<td>Hawaiian Marine Enterprises</td>
<td>Aquaculture farming</td>
<td>New</td>
<td>Potable 5-6-02-09 (por.)</td>
<td>Ag</td>
<td>9.75 ac.</td>
<td>54,538</td>
<td>54,538</td>
<td>54,538</td>
<td>54,538</td>
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<tr>
<td>Kahuku Shrimp Company</td>
<td>Aquaculture farming</td>
<td>New</td>
<td>Potable 5-6-02-09 (por.)</td>
<td>Ag</td>
<td>20.0 ac.</td>
<td>8,506</td>
<td>8,506</td>
<td>8,506</td>
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<tr>
<td>Kahuku Shrimp Company</td>
<td>Residential site</td>
<td>New</td>
<td>Potable 5-6-02-09 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>663</td>
<td>663</td>
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<tr>
<td>Mangrove Tropicals, Inc.</td>
<td>Aquaculture farming</td>
<td>Existing</td>
<td>Potable 5-6-03-26 (por.)</td>
<td>Ag</td>
<td>17.759 ac.</td>
<td>923</td>
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<td>3,000</td>
<td>4,000</td>
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<td>Existing</td>
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<td>221</td>
<td>331</td>
<td>331</td>
<td>331</td>
<td>331</td>
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<tr>
<td>Ming Dynasty Fish Co.</td>
<td>Aquaculture farming</td>
<td>New</td>
<td>Potable 5-6-03-32</td>
<td>Ag</td>
<td>20.52 ac.</td>
<td>335</td>
<td>5,000</td>
<td>10,000</td>
<td>15,000</td>
<td>17,577</td>
</tr>
<tr>
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<td>Residential site</td>
<td>New</td>
<td>Potable 5-6-03-32</td>
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<td>1 unit</td>
<td>193</td>
<td>663</td>
<td>663</td>
<td>663</td>
<td>663</td>
</tr>
<tr>
<td>Ming Dynasty Fish Co.</td>
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<td>New</td>
<td>Potable 5-6-03-10 (por.)</td>
<td>Ag</td>
<td>45.81 ac.</td>
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<td>500</td>
<td>500</td>
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<tr>
<td>Romy Aguinaldo</td>
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<td>Existing</td>
<td>Potable 5-6-03-26 (por.)</td>
<td>Ag</td>
<td>12.612 ac.</td>
<td>4,632</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
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<tr>
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<td>Existing</td>
<td>Potable 5-6-03-26 (por.)</td>
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<td>1 unit</td>
<td>331</td>
<td>331</td>
<td>331</td>
<td>331</td>
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<tr>
<td>State of Hawaii</td>
<td>Aquaculture farming</td>
<td>New</td>
<td>Potable 5-6-03-26 (por.)</td>
<td>Ag</td>
<td>12.422 ac.</td>
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<td>1,000</td>
<td>3,000</td>
<td>6,500</td>
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</tbody>
</table>

1Formerly Pacific Sea Farms
2Formerly Amorient RCA Building
3Acres or units noted as appropriate
4Pastures are not irrigated, water is for cattle/horse troughs
5Although the system services many agricultural activities that do not require potable water, all water is treated according to DOH standards because of domestic consumers
<table>
<thead>
<tr>
<th>Project Name</th>
<th>Existing or New Use (at time of Designation)</th>
<th>Potable or NonPotable</th>
<th>TMK</th>
<th>Current County Zoning Code</th>
<th>Units or Net Acres</th>
<th>GPD/Unit or GPD/Acre (Average Usage 2/1/98-7/29/99)</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 4 (Annual Average)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cagle, Chuck</td>
<td>Pasture§</td>
<td>New§</td>
<td>Potable 5-6-02-09 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>238 238 238 238 238 238</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fukushima, Ralph (by Cagle)</td>
<td>Pasture§</td>
<td>New§</td>
<td>Potable 5-6-02-01 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>26 26 26 26 26 26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fukushima, Ralph (by Kenui)</td>
<td>Pasture§</td>
<td>New§</td>
<td>Potable 5-6-02-01 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>589 589 589 589 589 589</td>
<td></td>
<td></td>
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<tr>
<td>Fukushima, Ralph (by Gate)</td>
<td>Pasture§</td>
<td>New§</td>
<td>Potable 5-6-02-19 (por.)</td>
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<td>190 200 200 200 200 200</td>
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<td></td>
</tr>
<tr>
<td>Fukushima, Ralph (by KSC)</td>
<td>Pasture§</td>
<td>New§</td>
<td>Potable 5-6-02-01 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>628 628 628 628 628 628</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Tilley, Gordon</td>
<td>Pasture§</td>
<td>New§</td>
<td>Potable 5-6-02-09 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>26 26 26 26 26 26</td>
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<tr>
<td>Smith, Max</td>
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<td>New§</td>
<td>Potable 5-6-03-26 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>26 26 26 26 26 26</td>
<td></td>
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<td></td>
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<tr>
<td>Fukushima, Ralph (by KSC)</td>
<td>Pasture§</td>
<td>New§</td>
<td>Potable 5-6-02-09 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>26 26 26 26 26 26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ah Quin, John</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable 5-6-03-27 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>365 365 365 365 365 365</td>
<td></td>
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</tr>
<tr>
<td>Ah Quin, Sam</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable 5-6-03-28 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>436 436 436 436 436 436</td>
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</tr>
<tr>
<td>Chew, Jerry</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable 5-6-03-26 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>357 357 357 357 357 357</td>
<td></td>
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</tr>
<tr>
<td>Frias, Lei Hulu</td>
<td>Residential</td>
<td>Existing</td>
<td>Potable 5-6-03-26 (por.)</td>
<td>Ag</td>
<td>1 unit</td>
<td>1,009 1,009 1,009 1,009 1,009 1,009</td>
<td></td>
<td></td>
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<tr>
<td>Huddy, Herbert</td>
<td>Residential</td>
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Unaccounted for water

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<td>179,423</td>
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1 Formerly Pacific Sea Farms
2 Formerly Amorient RCA Building
3 Acres or units noted as appropriate
4 Pastures are not irrigated, water is for cattle/horse troughs
5 Although the system services many agricultural activities that do not require potable water, all water is treated according to DOH standards because of domestic consumers
<table>
<thead>
<tr>
<th>TO:</th>
<th>INIT.</th>
<th>TO:</th>
<th>INIT.</th>
<th>FOR:</th>
<th>PLEASE:</th>
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<td>LUM, A.</td>
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<td>Approval</td>
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<td>CHING, F.</td>
<td></td>
<td>NAKAMA, L.</td>
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<td>Signature</td>
<td>Review &amp; Comment</td>
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<td>FUJII, N.</td>
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<td>NAKANO, D.</td>
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<td>Information</td>
<td>Take Action</td>
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<td>OHYE, M.</td>
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<td>UYENO, D.</td>
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<td>JOHNS, T.</td>
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<td>YODA, K.</td>
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<td>KUNIMURA, I.</td>
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<td></td>
<td></td>
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<td></td>
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</tbody>
</table>
Ms. Donna B. Goth
The Estate of James Campbell

Dear Ms. Goth:

Well Completion Report for Well No. 4158-12

We have received your Well Completion Report Part II for the Old Ka‘uku Airbase Well (Well No. 4158-12) and acknowledge that it is complete.

If you have any questions, please call Mr. Ryan Imata of the Commission staff at [redacted].

Sincerely,

[Signature]
EDWIN T. SAKODA
Acting Deputy Director

RI:ss
Mr. Ed Sakoda  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  

Dear Ed:

Pump Installation Report for Well No. 4158-12 - Kahuku Air Base

Thank you for your help on the above referenced matter which we discussed earlier this week. Enclosed please find a fully executed Pump Installation Report for Well No. 4158-12 for submittal to the Commission.

If you have any questions, please call me at __________.

Sincerely,

Bert L. Hatton  
Manager, Agriculture/Natural Resources

Enclosure

jck:01045301\K10007
WCR 2 Check for Well No. 4158-12

1. **Pump Tests Check** (special condition of PIP? Yes/No) Glenn Bauer □ (initial if yes)

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>If no, describe deficiency</th>
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</thead>
<tbody>
<tr>
<td></td>
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</table>

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

   **Aquifer Pump Test:**
   - acceptable □ □
   - 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)

<table>
<thead>
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<th>Yes</th>
<th>No</th>
<th>If no, describe deficiency</th>
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</table>

   - data complete □ □
   - followed WCPI Stds □ □
   - wellphys.dbf updated □ □
   - welaplic.dbf updated □ □
PART II. (PERMANENT) PUMP INSTALLATION REPORT

20. Pump Installation Company: ROSCOE MOSS HAWAII, INC.
21. Name of person performing work: JOHN MOLE
22. Date Pump Installation Completed: 10/10/97
23. PUMP INSTALLATION:
   Pump Type, Make, Serial No.: GRUNDFOS 3855-250-3
   Capacity: 350 gpm
   Motor type, H.P., Voltage, rpm: 30 / 230 / 3450
   Depth of Pump Intake Setting: 64 ft. below HEAD, which elevation is +1 ft.
   Depth to bottom of airline: 60 ft. below HEAD, which elevation is +5 ft.
   Pumping Head is: 240 ft. Type of flow meter: PROPELLER which measures in GPM
24. As-built drawings attached: X Yes ___ No
25. Other remarks/comments: (See below)

Pump Installation Contractor (print): ROSCOE MOSS HAWAII, INC. C-57 Lic. No. AC-16437

Signature
WILLIAM C. MOORE, PRESIDENT/RME
Date 1-11-99

Applicant (print): The Estate of James Campbell

Signature
BEAUX D. DOH, DIRECTOR, HAWAII PROPERTIES
Date 1/21/99

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

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<tr>
<th>Water Level Dates (ft.)</th>
<th>Depth (ft.)</th>
<th>Rock Description, Remarks,</th>
<th>Water Level Dates (ft.)</th>
<th>Depth (ft.)</th>
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</tr>
</tbody>
</table>


NOTE: SETTING PLAN INCLUDED. THIS PUMP WAS A REPLACEMENT OF AN EXISTING UNIT. NO CHANGE OF HEAD OR CAPACITY.

NOTE: GROUND ELEVATIONS NOTED ARE TAKEN FROM OLD RECORDS AND MAY NOT BE RELIABLE.
# WELL COMPLETION REPORT

(Check Appropriate Box)  
☐ Well Construction  ☒ (Permanent) Pump Installation  

Instructions: Please print or type and submit completed report within 30 days after well completion to the Commission on Water Resource Management. An as-built drawing of the well and chemical analysis should also be submitted. For assistance call the Commission Regulation Branch at [phone number].

1. State Well No.: 4158-12  
   Well Name: OLD KAHUKU AIR BASE  
   Island: OAHU

2. Location/Address: KAHUKU, HAWAII  
   Tax Map Key: 5-6-005:007

## PART I. WELL CONSTRUCTION REPORT

3. Drilling Company: ____________________________

4. Name of driller who performed work: ____________________________

5. Type of rig/construction: ____________________________

6. Date(s) Well Construction and pump tests (if any) completed: ____________________________

7. GROUND ELEVATION (referenced to mean sea level, msl): ____________________________ ft.  
   Well Bench Mark (description/location): ____________________________  
   Elevation(msl): ____________________________ ft.

8. DRILLER’S LOG: Please attach geologic log (if available or if required by permit)

<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Depths (ft.)</th>
<th>Rock Description, Water Level, Dates, etc.</th>
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</thead>
<tbody>
<tr>
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</table>

(If more space is needed, continue on back.)

9. Total depth of well below ground: ____________________________ ft.

10. Hole size:  
    - inch dia. from ______ ft. to ______ ft. below ground  
    - inch dia. from ______ ft. to ______ ft. below ground  
    - inch dia. from ______ ft. to ______ ft. below ground

11. Casing installed:  
    - in. I.D. x ______ in. wall solid section to ______ ft. below ground  
    - in. I.D. x ______ in. wall perforated section to ______ ft. below ground  
    - Casing Material/Slot Size: ____________________________

12. Annulus:  
    - Grouted from ______ ft. below ground to ______ ft. below ground  
    - Gravel packed from ______ ft. below ground to ______ ft. below ground

13. Initial water level: ______ ft. below ground.  
   Date and time of measurement: ____________________________

14. Initial chloride: ______ ppm  
   Date and time of sampling: ____________________________

15. Initial temperature: ______ °F  
   Date and time of measurement: ____________________________

16. PUMPING TESTS: Reference Point (R.P.) used: ____________________________, which elevation is ______ ft.  
    (1) Step-Drawdown Test Date ____________________________  
    Start water level ______ ft. below R.P.  
    End water level ______ ft. below R.P.

    (2) Long-term Aquifer Test Date ____________________________  
    Start water level ______ ft. below R.P.  
    End water level ______ ft. below R.P.

17. Aquifer Pump Test Procedures data & graphs (1/9/96 LTAT Form) attached? __ Yes __ No

18. As-built drawings attached attached? __ Yes __ No

19. Other remarks/comments: (On back of this form)

---

Well Drilling Contractor (print) ____________________________  
C-57 Lic. No. ____________________________

Signature ____________________________  
Date ____________________________

Surveyor (print) ____________________________  
Lic. No. ____________________________

Signature ____________________________  
Date ____________________________

Applicant (print) ____________________________

Signature ____________________________  
Date ____________________________
ROSCOE MOSS HAWAII, INC.
Equipment Sales Division
91-259A, Olai Street
Kapolei, Hawaii 96707
Phone: (808) 662-5564
Fax: (808) 662-5666

WELL NO. 4198-12
OLD KANIKU AREA

AS BUILT
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<th>WELL_NO</th>
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<th>OLD_NAME</th>
<th>YR_DRILLED</th>
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</table>
COMMISSION ON WATER RESOURCE MANAGEMENT

FROM: __________________________ DATE: ________ FILE IN: ________

TO: __________________________ INIT: ________ PLEASE: ________

- G. Matsumoto
- E. Sakoda
- Y. Shiroma
- E. Hirano
- D. Higa
- G. Bauer
- R. Rozeboom
- R. Hardy
- [Handwritten: Paul - pump-up date]

REMARKS: ________

FOR YOUR: ________

- R. LOUI
- S. KOKUBUN
- M. TAGOMORI
- L. Nanbu

- Approval
- Signature
- Information
March 3, 1993

State of Hawaii
Department of Land and Natural Resources
Commission on Water Resources Management

Attention: Mr. Ed Sakoda

Subject: Kahuku-Kuilima Resort Well - Well No. 4158-14 Kahuku, Oahu

Dear Ed:

In accordance with the Pump Installation Permit issued to Kuilima Resort Company (KRC), please find enclosed the chloride monitoring results collected from the Kahuku Airbase Well No. 4158-12 for the month of December 1992. The result show that the chloride concentration was 117 mg/L. The attached table presents the monitoring results that have been collected thus far.

Also, chloride data from our G-2 irrigation well (Well No. 4148-14), for the month of December 1992 showed a chloride concentration of 153 mg/L.

Also, please find enclosed the approximate monthly water usage from Well No. 4158-12. The approximate water usage from the G-2 irrigation well (Well No. 4158-14) is being reported to you by Mr. Mike Honma the current golf course superintendent.

Please call me should you require further clarification or questions on the subject material.

Sincerely,
KUILIMA DEVELOPMENT COMPANY

Eric S. Takamura
Assistant General Manager

Kuilima Development Company • Suite 2000 Pauahi Tower • 1001 Bishop Street • Honolulu, Hawaii 96813 • Telephone (808) 524-7622
TO: EST
ATTN: Eric Takamura

SAMPLES OF: Well water

RECEIPT DATE: 12/03/92

LOG NO.: 6249

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<td>153</td>
<td>12/16 klm</td>
</tr>
<tr>
<td>W-41 (4158-12)</td>
<td>117</td>
<td>12/16 klm</td>
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<tr>
<td>Date</td>
<td>Sample Number</td>
<td>Chlorides (mg/l)</td>
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<td>W-2</td>
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Chloride Monitoring
Well No. 4158-12
Kahuku Airbase Well
page 2.

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<tr>
<th>DATE</th>
<th>SAMPLE NUMBER</th>
<th>CHLORIDES (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/12/91</td>
<td>W-18</td>
<td>122</td>
</tr>
<tr>
<td>11/19/91</td>
<td>W-19</td>
<td>110</td>
</tr>
<tr>
<td>11/26/91</td>
<td>W-20</td>
<td>103</td>
</tr>
</tbody>
</table>

End of Twelve (12) week operational monitoring.

Begin once a month sampling.

<table>
<thead>
<tr>
<th>DATE</th>
<th>SAMPLE NUMBER</th>
<th>CHLORIDES (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/3/91</td>
<td>W-21</td>
<td>105</td>
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<tr>
<td>1/2/92</td>
<td>W-22</td>
<td>113</td>
</tr>
<tr>
<td>2/11/92</td>
<td>W-23</td>
<td>101</td>
</tr>
<tr>
<td>3/5/92</td>
<td>W-24</td>
<td>108</td>
</tr>
<tr>
<td>3/26/92</td>
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<td>W-26</td>
<td>104</td>
</tr>
<tr>
<td>6/1/92</td>
<td>W-28</td>
<td>107</td>
</tr>
<tr>
<td>7/3/92</td>
<td>W-31</td>
<td>112</td>
</tr>
<tr>
<td>8/10/92</td>
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<td>11/13/92</td>
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</table>
Chloride Monitoring
Well No. 4158-12
Kahuku Airbase Well
page 3.

<table>
<thead>
<tr>
<th>DATE</th>
<th>SAMPLE NUMBER</th>
<th>CHLORIDES (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/1/92</td>
<td>W-40</td>
<td>117</td>
</tr>
</tbody>
</table>
MONTHLY GROUND WATER USE REPORT

Month of November, 1992

INSTRUCTIONS: Complete this form to report total monthly ground water use from each of your well sources, and mail to: Division of Water Resource Management, __________. A separate form is available for reporting of surface water use. Phone __________ for assistance if required.

Water User: Campbell Estate    District: Kahuku    Island: Oahu

Water Use Quantity reported in Gallons (Units of Measurement)

<table>
<thead>
<tr>
<th>Well Name</th>
<th>State Well No.</th>
<th>Water Use Quantity</th>
<th>Method of Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kahuku Air base Well</td>
<td>4158-12</td>
<td>18,494</td>
<td>Meter</td>
</tr>
</tbody>
</table>

Additional Information: (Water level, chlorides, temperature, pump condition, change in use, etc.)

Period of Read: 11/13/93 - 12/12/92 - 18 days.

Submitted by (print) Eric S. Takamura

Signature Eric S. Takamura

Title Assistant General Manager

Date Mar 3, 1993
1993 October 29

State of Hawaii
Commission on Water Resource Management

OBJECTIONS AND COMMENTS ON APPLICATIONS FOR WATER USE PERMITS
Public Notice dated September 22, 1993
Send written objections by October 29, 1993

NHAC represents water source registrants, water use declarants, water use permit applicants, and others with property interest in land within the hydrologic unit of the source of water supply, as well as persons with non-property interests, all of whom would be directly and immediately affected by the proposed water use.

GENERAL OBJECTIONS

We reiterate our general objections to current COWRM water use permit application processing and decisionmaking practices as previously submitted on numerous occasions (10/12/92, 10/21/92, 12/1/92, 6/22/93, & 7/8/93).

In its last set of applications, Campbell Estate proposed to continue a total of 16.225 mgd of existing use from the basal aquifer, which climbs to 26.725 mgd with this application. However, the May 1992 review draft of the Oahu Water Management Plan (p. 14) reports 1990 groundwater use of only 13.6 mgd. The 16.725 mgd of proposed use is about 51% of the 1992 revised sustainable yield of 35 mgd for the Koolauloa aquifer. Without better knowledge of existing, foreseeable, and potential competing applications for this yield, it is difficult to assess the propriety of allocating over 50% of aquifer yield to a single applicant. How many more applications have been/will be submitted by Campbell Estate for water from this aquifer? The whole picture should be up front before decision-making begins.
SPECIFIC OBJECTIONS

Wells 4158-12 & 13

The quantity requested seems high for only 18 homes and 3 office buildings. How does this compare with actual use as reported to the Water Commission?

All other wells (saltwater)

While we have no specific objections to the extraction of salt water for aquacultural use, we are concerned about the potential impacts of aquaculture wastewater effluent discharge upon water sources and water uses in the area. These water quality concerns should be listed in the applications as potential restrictions on use.

Mahalo,

David L. Martin, Water Claims Manager

pc: Campbell Estate
REGULATION BRANCH
Commission on Water Resource Management

FROM: ___________________________ DATE: ________________________ FILE IN: 3-4/15/8-12, 14

TO:  INIT: PLEASE: REMARKS: Value

--- E. SAKODA --- See Me
- - K. Oshiro --- Call
--- S. Samuels --- Review & Comment
- R. Hardy - Review & Comment
--- Investigate & Report
--- Take Action
--- Draft Reply
--- Acknowledge Receipt
--- Type Draft
--- Type Final
--- Xerox ___ copies

FOR YOUR:

--- R. LOUI --- Approval
--- S. Kokubun --- Signature
--- G. MATSUMOTO --- Information
--- Y. SHIROMA
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resources Management  

Attention: Mr. Ed Sakoda  

Subject: Kahuku-Kuilima Resort Well - Well No. 4158-14 Kahuku, Oahu  

Dear Ed:  

In accordance with the Pump Installation Permit issued to Kuilima Resort Company (KRC), please find enclosed the chloride monitoring results collected from the Kahuku Airbase Well No. 4158-12 for the month of June 1992. The result show that the chloride concentration was 107 mg/L, collected on June 1, 1992. The attached table presents the monitoring results that have been collected thus far.  

Also, chloride data from our G-2 irrigation well (Well No. 4148-14), collected on June 1, 1992 showed a chloride concentration of 153 mg/L during this sampling effort.  

Also, please find enclosed the approximate monthly water usage from Well No. 4158-12. The approximate water usage from the G-2 irrigation well (Well No. 4158-14) is being reported to you by Mr. Mike Honma the current golf course superintendent.  

Based upon our recent telephone conversation, Kuilima will continue to monitor the chloride concentration of these two wells on a once a month frequency. Please call me should you require further clarification or questions on the subject material.  

Sincerely,  
KUILIMA DEVELOPMENT COMPANY  

ERIC S. TAKAMURA  
Assistant General Manager  

Kuilima Development Company
## Chloride Monitoring
Well No. 4158-12
Kahuku Airbase Well

**Date** | **Sample Number** | **Chlorides (mg/l)**
--- | --- | ---
7/16/91 | W-1 | 99
7/23/91 | W-2 | 102
7/30/91 | W-3 | 118
8/06/91 | W-4 | 118
8/13/91 | W-5 | 116
8/20/91 | W-6 | 113
8/26/91 | G-2 Well (Well No. 4258-14) production initiated.
8/27/91 | W-7 | 108
9/03/91 | W-8 | 114
9/10/91 | W-9 | 115
9/17/91 | W-10 | 115
9/24/91 | W-11 | 115
10/01/91 | W-12 | 105
10/08/91 | W-13 | 112
10/15/91 | W-14 | 106
10/22/91 | W-15 | 109
10/29/91 | W-16 | 106
11/5/91 | W-17 | 105
Chloride Monitoring
Well No. 4158-12
Kahuku Airbase Well
page 2.

<table>
<thead>
<tr>
<th>DATE</th>
<th>SAMPLE NUMBER</th>
<th>CHLORIDES (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/12/91</td>
<td>W-18</td>
<td>122</td>
</tr>
<tr>
<td>11/19/91</td>
<td>W-19</td>
<td>110</td>
</tr>
<tr>
<td>11/26/91</td>
<td>W-20</td>
<td>103</td>
</tr>
</tbody>
</table>

End of Twelve (12) week operational monitoring.

Begin once a month sampling.

<table>
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<tr>
<th>DATE</th>
<th>SAMPLE NUMBER</th>
<th>CHLORIDES (mg/l)</th>
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</thead>
<tbody>
<tr>
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<td>113</td>
</tr>
<tr>
<td>2/11/92</td>
<td>W-23</td>
<td>101</td>
</tr>
<tr>
<td>3/5/92</td>
<td>W-24</td>
<td>108</td>
</tr>
<tr>
<td>3/26/92</td>
<td>W-25</td>
<td>109</td>
</tr>
<tr>
<td>5/12/92</td>
<td>W-26</td>
<td>104</td>
</tr>
<tr>
<td>6/1/92</td>
<td>W-28</td>
<td>107</td>
</tr>
</tbody>
</table>

\*WP51WELL
TO: EST  
ATTN: Eric Takamura

SAMPLES OF: Well water  
SAMPLED: 6/1/92

RECEIPT DATE: 6/2/92  
LOG NO.: 5776

<table>
<thead>
<tr>
<th>Measurement:</th>
<th>Chloride (mg Cl/L)</th>
<th>Analysis Date/Analyst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W-28 Well No. 4158-12</td>
<td>107</td>
<td>6/4 klm</td>
</tr>
<tr>
<td>W-29 Well No. 4158-14</td>
<td>153</td>
<td>6/4 klm</td>
</tr>
</tbody>
</table>
DIVISION OF WATER RESOURCE MANAGEMENT

FROM: 

TO: INITIAL:
1/ G. AKITA
2/ L. Nanbu
3/ E. Sakoda
4/ G. Matsumoto
5/ E. Lau
6/ L. Chang
7/ Y. Shiroma
8/ Glenn
9/ M. TAGOMORI
10/ S. Kokubun

DATE: 
FILE IN: 3-4153-12

PLEASE:
√ See Me

REMARKS:
Glenn - can you observe the sample collection some Tues. Arrange with Eric T. - let me know when - I might go along.
July 31, 1991

State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management

ATTN: Mr. Ed Sakoda

Subject: Kahuku-Kuilima Resort Well - Well No. 4158-14, Kahuku, Oahu

Dear Ed:

In accordance with the Pump Installation Permit issued to Kuilima Resort Company (KRC) please find enclosed the first two weekly analyses on chlorides taken from the Kahuku Airbase Well No. 4158-12. The initial two sample results show that the concentration of chlorides was approximately 100 mg/L.

Kuilima is collecting samples once per week on Tuesday during the morning hours. Sample collection occurs between 9:00 am and 10:00 am. We anticipate production to start in mid-August 1991. Please feel free to accompany Kuilima during any one of these sampling events. If interested or if you should have further questions, please do not hesitate to call me at [redacted]

Sincerely,

[Signature]
Eric S Takamura, Ph.D., PE
Assistant General Manager

cc: Norman Quon
Files
CLIENT: EST Environmental Consultants  
ATTN: Eric Takamura

SAMPLES OF: Kahuku Airbase Well  
SAMPED: 7/16, 7/23/91

RECEIPT DATE: 7/16, 7/23/91  
LOG NO.: 5130, 5145

<table>
<thead>
<tr>
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<th>7/24</th>
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</thead>
<tbody>
<tr>
<td>Analyst:</td>
<td>er</td>
</tr>
<tr>
<td>Measurement:</td>
<td>Chloride (mgCl/L)</td>
</tr>
<tr>
<td>Sample Name:</td>
<td></td>
</tr>
</tbody>
</table>

| 7/16/91 | W-1 | 99 |
| 7/23/91 | W-2 | 102 |
### Inorganic Data

<table>
<thead>
<tr>
<th>ID</th>
<th>SAMPLE ID</th>
<th>DATE</th>
<th>LOCATION</th>
<th>ARSENIC</th>
<th>SELENIUM</th>
<th>MERCURY</th>
<th>CADMIUM</th>
<th>LEAD</th>
<th>CHROMIUM</th>
<th>BARIUM</th>
<th>SILICON</th>
<th>FLUORIDE</th>
<th>CHLORIDE</th>
<th>TDS</th>
<th>SULFATE</th>
<th>IRON</th>
<th>COPPER</th>
</tr>
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<tbody>
<tr>
<td>315</td>
<td>31505</td>
<td>05/11/87</td>
<td>WASH SINK</td>
<td>0.02</td>
<td>0.005</td>
<td>0.005</td>
<td>0.01</td>
<td>0.00</td>
<td>0.03</td>
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<td>399</td>
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<tr>
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<td>31505</td>
<td>03/14/88</td>
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<td>0.005</td>
<td>0.01</td>
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<td>71.0</td>
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<td>0.00</td>
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<tr>
<td>315</td>
<td>315</td>
<td>03/13/89</td>
<td>AMORIENT AQUA</td>
<td>0.02</td>
<td>0.005</td>
<td>0.005</td>
<td>0.01</td>
<td>0.00</td>
<td>0.03</td>
<td>1.43</td>
<td>0.20</td>
<td>147</td>
<td>367</td>
<td>70.0</td>
<td>0.00</td>
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</tbody>
</table>

### Organic Data

| ID  | SAMPLE ID | DATE  | LOCATION      | ENDRIN | METHOXY | TOXAPHENE | 2,4-D | SILVEX | CHLOR |
|-----|-----------|-------|----------------|-------|---------|-----------|-------|--------|
| 315 | 31506     | 09/19/88 | OLD RCA BLDG  | 0.0002 | 0.002   | 0.004     | 0.005 | 0.002  | 0.0004|
SANITARY SURVEY FORM - DRINKING WATER PROGRAM

Well No. 4/58-12

Distribution System

Pipe Material: AC ______ Cast Iron X ______ Ductile Iron ______ Concrete ______ Copper ______ Galvanized ______

PVC X PE or PB ______ Other ________________________________

Is there a map of the distribution system available and current? ________________________________

System includes the following service areas: KAHUKU AIR BASE, INDIVID. FARM lots, MCE SHRIMP FARM, AMORENT SHRIMP FARM, SOME RESIDENTIAL. 6" PVC LINES TO KAM HWY, 4" PVC LINE MAKAI OF HWY

Are pipes disinfected after repairs are made? yes X, no ______

Is there a cross connection program? yes ______, no ______ ?

Are there major facilities which require backflow prevention such as hospitals, mortuaries, chemical mixing areas, sewage treatment plants, etc?

SHRIMP AND FISH (TALAPIA) FARMS

Have cross connections been found in the treatment system or distribution system?
If so, what corrective actions have been taken?

RECOMMEND BACKFLOW PREVENTION DEVICES OR APPROVED AIR CAPS ON LINES FOR FILLING FISH OR SHRIMP TANKS. AN APPROVED AIR GAP IS A DISTANCE OF 2 TIMES THE HOSE DIAMETER ABOVE THE OVERFLOW LEVEL OF THE PONDS.

Sampling Points Inspected

<table>
<thead>
<tr>
<th>Number</th>
<th>Contaminating Devices</th>
<th>Swivel Faucet</th>
<th>Clear of Veg.</th>
<th>Leaks</th>
<th>Cl₂</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>31505</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sorting shed &amp; FOWLERCO SUFARM, SHED NOT USED NOW.</td>
</tr>
<tr>
<td>31506</td>
<td>RE/movable</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>0.3</td>
<td>restroom tap - AMORENT OFFICE</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>outside tap, makua of amorent bld.</td>
</tr>
<tr>
<td>2ND ALTERNATE</td>
<td></td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td></td>
<td>hose bb, residence makua of FOWLERCO SUNFISH FARM</td>
</tr>
<tr>
<td>1ST ALTERNATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
STATE OF HAWAII
COMMISSION ON WATER RESOURCE MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT

MONTHLY GROUND WATER USE REPORT

Month of June, 1992

INSTRUCTIONS: Complete this form to report total monthly ground water use from each of your well sources, and mail to: Division of Water Resource Management, [Address]. A separate form is available for reporting of surface water use. Phone [568 (Honolulu)] for assistance if required.

Water User: Campbell Estate District: Kahuku Island: Oahu

<table>
<thead>
<tr>
<th>Well Name</th>
<th>State Well No.</th>
<th>Water Use Quantity</th>
<th>Method of Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kahuku Airbase Well</td>
<td>4158-12</td>
<td>88,012</td>
<td>Meter</td>
</tr>
</tbody>
</table>

Additional Information: (Water level, chlorides, temperature, pump condition, change in use, etc.)

Period of record: 6/1/92 - 7/3/92

Submitted by (print) Eric S. Takamiura
Title Assistant General Manager
Signature Eric S. Takamiura
Date 7/29/92
The source is a well at elevation 60 feet, which has a pump capacity of 350 gpm at 12.2 feet of head. The well was drilled in 1942 and is located 900 feet mauka of Kamehameha Highway.

The pump house area has undergone some recent improvements. A gas chlorinator, Advance Model 400 - Capital Controls, was installed in August 1985. The submersible pump was replaced in September of that year. A new chlorinator shed was erected in 1986 in accordance with recommendations from a September, 1985 follow-up visit. The pump house area was fenced approximately one year ago.

Water is stored in a 500,000 gallon underground concrete tank, built in 1941 and located about 100 feet makai of the well site. The reservoir has an elevation of 200 feet and is kept half full.

A new 8" diameter ductile iron pipe carries water from the pump to the reservoir and is located aboveground. An underground concrete valve box adjacent to the reservoir houses valves for the abandoned 8" influent line, as well as a 8" cast iron service line and an 6" cast iron overflow line. The service line returns to the pump house. The system can be configured to bypass the reservoir by opening a valve in the pump house. A 6" PVC line runs from the pump house to Kam Highway. A 4" PVC line extends from the highway to distribution points at the airbase, shrimp farms and family farm lots. A drawing of the system is enclosed on the following page.
POSITIVE/NEGATIVE FINDINGS:

1. There are eighteen (18) service connections to the system. The service population was estimated by Peter Gibson to be less than 75 persons, down from the previous 220 persons.

2. The pump house area has had many improvements which increase safety at the site. A locked chlorination shed has been constructed to separately house the chlorination facilities. The pump house area was fenced about one year ago.

3. A new ductile iron 8" line from the pump house to the reservoir has been constructed aboveground.

4. The screen covering the reservoir overflow pipe was off the pipe, and was put back on. A temporary wooden cover was found over the manhole into the reservoir. A permanent locked cover will be installed.

RECOMMENDATIONS:

1. The pump house has open windows near the rafters which should be screened to keep vermin out. The chlorinator shed should be vented at the bottom so that leaking chlorine gas could escape. A chlorine gas warning sign should be posted on the chlorinator shed.

2. The chemicals in the chlorine residual test kit (Hach test kit) have a shelf life of approximately 6 to 9 months. It is recommended that the chemicals in the chlorine test "pillows" be checked for freshness twice a month. Measure the chlorine residual in a sample of unchlorinated water. If the mixture turns pink, replace all the remaining pillows in the kit. Keep records of the tests.

3. A drainage swale should be dug around the valve box at the reservoir. This would help to keep the area drained in case repairs would need to be done on the valves. The valves should be chained and locked in the desired position since access to the site is not protected.
4. Three alternatives are suggested to keep vermin out of the overflow pipe: (1) flapper the end of the pipe, 2) replace the screen on the pipe with one that has a larger gauge (1/8"), or 3) check more frequently to see that the old screen is on the pipe (at least two times a week.)

5. The sampling site at the old sorting shed (31505) at the Fowlerco Sunfish Farm is infrequently used. A new site at the restroom sink at the Amorient office (old RCA building) will be used effective April 1988. Not only is the Amorient tap in constant usage, but access to the site is easier. The contact person is Leona Castillio, the office manager. The new sample point number is 31506.

6. Backflow prevention devices or approved airgaps should be installed at the Amorient shrimp farm and at the Fowlerco sunfish farm to prevent backflow from the ponds through hoses and into the drinking water supply. (See Distribution System comments for a sketch of the approved air gap distance).

JOHN A. TOPLISS

DAVID M. HIGA

STUART H. YAMADA

ANN T. ZANE
****** HAWAII DRINKING WATER SYSTEM INFORMATION ******
05/22/90

Water System Number: 315       ISLAND: Oahu
Well No. H/5B-12

Water System Name: KAHUKU AIR BASE

Water System Owner: CAMPBELL ESTATES
System Location: Kahuku Oahu

Contact Person: Peter Gibson
Telephone: [Redacted]

Second Contact: Theresia Cortez
Telephone: [Redacted]

FAX Number: [Redacted]

Water System Classification: C
C - Community, NC - Noncommunity, NTNC - Nontransient Noncommunity:

Population: 75       Service Connections: 15
Minimum number of bacti samples required per month: 1

System Active?: Y       DATE became inactive / /
Date Began: 01/01/41
Source Classification: GROUND
Source Water Utilized - Percent - Total 100%

<table>
<thead>
<tr>
<th>Surface</th>
<th>Ground</th>
<th>Purchased</th>
<th>Purchased Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>Ground</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Send correspondence to: Mr. Peter Gibson
Campbell Estates

Send copy to: Ms. Theresia Cortez
Campbell Estates

[Redacted]
<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Arsenic</th>
<th>Selenium</th>
<th>Mercury</th>
<th>Cadmium</th>
<th>Lead</th>
<th>Chromium</th>
<th>Barium</th>
<th>Silver</th>
<th>Nitrate (as N)</th>
<th>Fluoride</th>
<th>Chloride</th>
<th>TDS</th>
<th>Sodium</th>
<th>pH</th>
<th>Temp (°C)</th>
</tr>
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<tbody>
<tr>
<td>5-5-86</td>
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<td>0.05</td>
<td>0.01</td>
<td>0.002</td>
<td>0.010</td>
<td>0.05</td>
<td>0.05</td>
<td>1.0</td>
<td>0.05</td>
<td>10.</td>
<td>1.4</td>
<td>250</td>
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Hawaiian Electric Co.  
Environmental Chemistry Laboratory  
Supervisor: George Yasutome

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Board of Water Supply  
Chemistry Laboratory  
City & County of Honolulu  
Director: Erwin Kawata

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<td>Turbidity</td>
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