The Honorable Jeremy Harris, Mayor
City and County of Honolulu
City Hall
Honolulu, HI 96813

Dear Mayor Harris:

Water Use Permit Application
Requests for Comments

Thank you for your letter of May 5, 1997, regarding our requests for comments on Water Use Permit Applications. We understand that the Planning Department will continue to be responsible for coordinating City agencies' responses.

To facilitate and expedite City agencies' review, we are presently sending copies of the applications and individual requests for comments to the Planning Department, the Department of Land Utilization, and the Board of Water Supply. This arrangement has been ongoing at the request of the Planning Department for about two (2) years now and will continue.

However, we will continue to send you a copy of the public notice of the application pursuant to section 174C-52(a) HRS, which states:

"...the commission shall cause a copy of such notice to be sent to any person who has filed a written request for notification of any pending applications affecting a particular designated area and to the mayor and the water board of the affected county."

[emphasis added]

Aloha,

MICHAEL D. WILSON
Chairperson
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P.O. BOX 821
HONOLULU, HAWAII 96808

MAY 21 1997

Mr. Kent Watase
U.S. Army
APVG-GWC
Schofield Barracks, HI 96857

Dear Mr. Watase:

Approval of Water Use Permit (WUP No. 464) for Well No. 2901-02
Wahiawa Ground Water Management Area, Oahu

This letter transmits your water use permit for Schofield Shaft (Well Nos. 2901-02 to 04, 10) for use of 5.648 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 May 14, 1997.

Your request to modify the water use permit(s) for Schofield Shaft to reduce the permitted use quantity by 0.208 mgd was achieved through: 1) the cancellation of WUP No. 181, which was approved on August 18, 1993 for 0.156 mgd; and 2) a 0.052 mgd reduction in permitted use for WUP No. 191, which was approved on July 19, 1989 for 5.7 mgd. WUP No. 464 (attached) supersedes WUP No. 191; please note the new set of standard conditions which are attached to WUP No. 464. In addition, as part of the Commission’s approval, the following special condition has been added and is part of your permit under Standard Permit Condition 20:

Special Conditions
a. Standard Condition 18 for interim water use permits shall not apply.

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. If you accept these terms, please sign and return one copy of this permit to the Commission and retain a copy for your record.

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 Wahiawa 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 Lenore Nakama of the Commission staff at 587-0218.

Attachments
GROUNd WATER USE PERMIT
WUP NO. 464

PERMITTEE

Applicant/Water User: U.S. ARMY
Address: APVG-GWC, SCHOFIELD BARRACKS, HI 96857

Landowner of Source: U.S. ARMY
Address: APVG-GWC, SCHOFIELD BARRACKS, HI 96857

PERMITTED SOURCE INFORMATION

Island: OAHU
Water Management Area: WAHIAWA
Aquifer Sector: CENTRAL
Aquifer System: WAHIAWA
System Sustainable Yield: 23 mgd
Well Name: SCHOFIELD SHAFT
State Well No.: 2901-02 TO 04,10

PERMITTED USE INFORMATION

Reasonable beneficial use: MILITARY
Withdrawal (12 month moving ave.): 5.648 mgd
Location of water use:
TMK #: 7-7-01-1
Address: SCHOFIELD BARRACKS
State land use classification: URBAN
County zoning classification: EXEMPT

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 applicant 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 May 14, 1997 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 WAHIAWA 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 WAHIAWA 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 WAHIAWA 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.

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

Applicant's Signature: _____________________________ Date: ________________

Printed Name: _________________________________ Firm or Title: _________________________________

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

Attachment
The Honorable Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

RE: Water Use Permit Application for
Wahiawa Ground Water Management Area, Oahu, Hawaii
U. S. Army, Well Nos. 2901-02 to 04, 10

This is to acknowledge receipt of the above-cited notice and request for comments. I have assigned the Planning Department the responsibility for coordinating City agencies’ responses regarding Water Use Permit applications.

To assist us in this regard, please send future notices and requests for comments to the appropriate City agencies; the Planning Department will then prepare a coordinated response to your request.

Sincerely,

Jeremy Harris
Mayor

JH:vb

c: Department of Land Utilization
Board of Water Supply
STAFF SUBMITTAL

for the meeting of the
COMMISSION ON WATER RESOURCE MANAGEMENT

May 14, 1997
Honolulu, Oahu

U.S. ARMY
MODIFICATION OF A WATER USE PERMIT
CANCELLATION OF A WATER USE PERMIT
Schofield Shaft (Well Nos. 2901-02 to 04, 10), TMK 7-6-01:1
Voluntary Reduction in Permitted Use
Wahiawa Ground Water Management Area, Oahu

APPLICANT: U.S. Army
APVG-GWC
Schofield Barracks, HI 96857

LANDOWNER: SAME

LOCATION MAP: See Exhibit 1

BACKGROUND:

On February 14, 1996, U.S. Navy Public Works (Navy) submitted a water use permit application to use 0.208 million gallons per day (mgd) of potable water from Wahiawa Deep Well (Well No. 3100-02) for the potable needs at NCTAMS EASTPAC. The potable needs of the 740 existing residences at NCTAMS EASTPAC were being met by the Army's Schofield Shaft (Well Nos. 2901-02 to 04, 10). The proposed use of Wahiawa Deep Well would relieve the Navy from purchasing water from the Army.

On June 5, 1996, the Commission on Water Resource Management (Commission) approved an interim water use permit to the Navy for Wahiawa Deep Well for 0.208 mgd. The following special condition was attached to the permit:
"This WUP shall be subject to the U.S. Army's application for a water use permit to reduce the permitted use of the Army's Schofield Shaft (Well Nos. 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 sixty (60) days after the approval of this WUP or this WUP shall be void. Approval of the modification request shall be obtained from the Commission prior to the use of Well No. 3100-02 and issuance of this WUP."

On August 1, 1996, the Navy notified the Commission staff by telephone that the modification and agreement of an Interservice Support Agreement (ISSA) between the Army and Navy was pending and requested a 120-day extension for the Army to submit the water use permit modification application. On August 9, 1996, a formal written request was submitted.

On August 27, 1996, the Commission staff confirmed the 120-day extension.

On December 6, 1996, the Commission staff approved an additional 100-day extension to provide time for the Army and Navy to finalize and sign the ISSA.

On March 3, 1997, a completed water use permit application was received from the Army.

**ANALYSIS/ISSUES:**

Section 13-171-24(4) HAR provides for the cancellation of a water use permit, permanently and in whole, with the written consent of the permittee.

On March 14, 1997, the Commission staff contacted the Army to confirm that the proposed 0.208 mgd reduction in permitted use would be achieved through: 1) the cancellation of WUP No. 181, which was approved on August 18, 1993 for 0.156 mgd; and 2) a 0.052 mgd reduction in permitted use for WUP No. 191, which was approved on July 19, 1989 for 5.700 mgd (personal communication with Kent Watase). This information amended the water use permit application, which was signed by the Army, and the staff feels that this action constitutes the written consent to cancel WUP No. 181 and reduce WUP No. 191 by 0.052 mgd which would bring the modified total to 5.648 mgd.

Section 13-171-23(b) HAR provides for the modification of a water use permit without a hearing provided that the permittee establishes that the proposed modification would result in a more efficient utilization of water than is possible under the existing permit. The staff finds that this proposed modification request will result in a more efficient use of water by spreading the pumpage and relieving the Navy from purchasing water withdrawn at the Army well. Although a hearing is not required for the proposed modification of the permitted use amount, the staff recommends that, in addition to reducing the current permitted amount, the Commission recondition WUP No. 191 by attaching the current set of standard conditions (shown in Attachment A), which shall replace previous permit conditions for WUP No. 191 (§13-171-23(a) HAR).
RECOMMENDATION:

The staff recommends that the Commission:

1. Cancel WUP No. 181, permanently and in whole.

2. Modify WUP No. 191 by reducing the permitted use amount from 5.700 mgd to 5.648 mgd and by replacing the conditions of WUP No. 191 with the standard conditions shown in Attachment B, and the following special condition:

   a. Standard Condition 18 for interim water use permits shall not apply.

Respectfully submitted,

[Signature]

RAE M. LOUI
Deputy Director

Attachment(s): A (Water Use Permit Standard Conditions)

Exhibit(s): 1 (Location Map)
STANDARD WATER USE PERMIT 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 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 May 14, 1997 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.

ATTACHMENT A
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 WAHIAWA 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 WAHIAWA 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 WAHIAWA 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.

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. 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 A
April 18, 1997

Honorable Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Water Use Permit Application for
Wahiawa Ground Water Management Area, Oahu, Hawaii,
U.S. Army, Well Nos. 2901-02 to 04, 10

We offer the following comments on the subject application.

Board of Water Supply:

The Board of Water Supply has no objection to this application to decrease use from Schofield Shaft to enable the Navy to pump 0.208 mgd from its Whitmore Facility well 3100-02.

Department of Land Utilization:

The proposed project has been reviewed for the purpose of providing the following information and does not imply a recommendation of approval by the Department of Land Utilization.

1. The current zoning designations for the subject parcel (TMK 7-7-01:01) are P-1 Restricted Preservation District and F-1 Military and Federal Preservation District.

2. We do not regulate military uses or structures on federal lands such as Schofield Barracks.

3. The use is not within the Special Management Area.
Planning Department:

The Planning Department has no objection to this application.

The comments of the Board of Water Supply and Department of Land Utilization are attached.

Should you have any questions, please call Gordon Wood of the Planning Department staff at 527-6073.

Sincerely,

[Signature]

PATRICK T. ONISHI
Chief Planning Officer

PTO:lh

Attachments

c: Honorable Jeremy Harris, Mayor
Mr. Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Subject: Your Notice of March 29, 1997 on U.S. Army Schofield Shaft (Well Numbers 2901-02 to 04, and 10)

Thank you for the opportunity to comment on this application to decrease use from Schofield Shaft to enable the Navy to pump 0.208 mgd from its Whitmore Facility well 3100-02. We have no objection and return the cover memo accordingly marked.

If you have any questions, please contact Chester Lao at 527-5286.

Very truly yours,

RAYMOND H. SATO
Manager and Chief Engineer

Attachment

cc: Planning Department
MEMORANDUM

TO: PATRICK T. ONISHI, CHIEF PLANNING OFFICER
   PLANNING DEPARTMENT

FROM: JAN NAOE SULLIVAN, DIRECTOR
       DEPARTMENT OF LAND UTILIZATION

SUBJECT: WATER USE PERMIT APPLICATION

Applicant: United States Army
Tax Map Key(s): 7-7-01: 01
Type of Use(s): Military
Well No(s): 2901-2, 2901-3, 2901-4 and 2901-10

The proposed use on the above-referenced tax map key(s) has been reviewed. We find that:

1. The current zoning designations for the above parcel is P-1 Restricted Preservation District and F-1 Military and Federal Preservation District.

2. Generally, we do not regulate military uses or structures which are located within the F-1 Military and Federal Preservation District. We are unable to tell from the application material whether the military uses are within this zoning district.

3. The use is not within the Special Management Area.

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 Environmental Review Branch at 523-4077.

JAN NAOE SULLIVAN
Director of Land Utilization

JNS:am
g:sfield.assessment
TO:
Aquatic Resources
Forestry and Wildlife/Natural Area Reserve System
Historic Preservation
Land Management
State Parks

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

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

Transmitted for your review and comment is a copy of a water use permit modification application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

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

Contact Person: Phone:

Signed: Date: APR 14 1997
The Oahu District Office of the Land Division has no objections to this water use permit modification, located on Federal lands. We do require that the applicant obtain all appropriate Federal, State and County permits that are required.
TO: Honorable Kali Watson, Chairperson
Department of Hawaiian Home Lands

Honorable Lawrence Miike, Director
Department of Health
Attn: Mr. Dennis Tulang
Attn: Mr. William Wong

Honorable Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Ms. Esther Ueda, Executive Officer
Land Use Commission

Mr. Raymond Sato, Manager & Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Chester Lao
Attn: Mr. Barry Usugawa

Mr. Patrick Onishi, Chief Planning Officer
Planning Department

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

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

Transmitted for your review and comment is a copy of a water use permit application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

- We have no comments
- We have no objections
- Comments attached

Contact Person: Luis A. Manrique
Phone: 594-1755
Signed: Luis A. Manrique
Date: 04/17/97
TO: Aquatic Resources
Forestry and Wildlife/Natural Area Reserve System
Historic Preservation
Land Management
State Parks

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

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

Transmitted for your review and comment is a copy of a water use permit modification application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)

Response:

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

Contact Person: [Signature]
Phone: 7-0815

Signed: [Signature]
Date: 4/9/97
Transmitted for your review and comment is a copy of a water use permit application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

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

Contact Person: Darrell Yagodich, Planning Officer Phone: 586-3848
Signed: Darrell Yagodich Date: April 7, 1997
Mr. Michael D. Wilson, Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Wilson:

Subject: Your Notice of March 29, 1997 on U.S. Army Schofield Shaft (Well Numbers 2901-02 to 04, and 10)

Thank you for the opportunity to comment on this application to decrease use from Schofield Shaft to enable the Navy to pump 0.208 mgd from its Whitmore Facility well 3100-02. We have no objection and return the cover memo accordingly marked.

If you have any questions, please contact Chester Lao at 527-5286.

Very truly yours,

Raymond H. Sat0
Manager and Chief Engineer

Attachment

cc: Planning Department
TO: Honorable Kali Watson, Chairperson  
Department of Hawaiian Home Lands  
Honorable Lawrence Miike, Director  
Department of Health  
Attn: Mr. Dennis Tulang  
Attn: Mr. William Wong  
Honorable Clayton H. W. Hee, Chairperson  
Office of Hawaiian Affairs  
Ms. Esther Ueda, Executive Officer  
Land Use Commission  
Mr. Raymond Sato, Manager & Chief Engineer  
Honolulu Board of Water Supply  
Attn: Mr. Chester Lao  
Attn: Mr. Barry Usugawa  
Mr. Patrick Onishi, Chief Planning Officer  
Planning Department  

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management  

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

Transmitted for your review and comment is a copy of a water use permit application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

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

Contact Person: Bert Kiuoka  
Phone: 527-6134  
Signed: Raymond H. Sato  
Date: 4/4/97  
Manager and Chief Engineer
TO: Honorable Kali Watson, Chairperson
   Department of Hawaiian Home Lands

   Honorable Lawrence Miike, Director
   Department of Health
   Attn: Mr. Dennis Tulang
   Attn: Mr. William Wong

   Honorable Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs

   Ms. Esther Ueda, Executive Officer
   Land Use Commission

   Mr. Raymond Sato, Manager & Chief Engineer
   Honolulu Board of Water Supply
   Attn: Mr. Chester Lao
   Attn: Mr. Barry Usugawa

   Mr. Patrick Onishi, Chief Planning Officer
   Planning Department

FROM: Michael D. Wilson, Chairperson

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

Transmitted for your review and comment is a copy of a water use permit application for
the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit
modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd).  
Public notice of this application will be published in the Honolulu Advertiser issues of April 1
and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an
extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN: ss
Attachment(s)

Response:

We have no comments
We have no objections
Comments attached

Contact Person: Min Kajiwara
Signed: Min Kajiwara
Phone: 586-4294
Date: 4-2-97
TO: Aquatic Resources
Forestry and Wildlife/Natural Area Reserve System
Historic Preservation
Land Management
State Parks

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

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

Transmitted for your review and comment is a copy of a water use permit modification application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

Response:

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

Contact Person: Mike Yamamoto
Phone: 7-0089
Signed: 3-31-97
TO: Honorable Kali Watson, Chairperson
   Department of Hawaiian Home Lands
   Honorable Lawrence Miike, Director
   Department of Health
   Attn: Mr. Dennis Tulang
   Attn: Mr. William Wong
   Honorable Clayton H. W. Hee, Chairperson
   Office of Hawaiian Affairs
   Ms. Esther Ueda, Executive Officer
   Land Use Commission
   Mr. Raymond Sato, Manager & Chief Engineer
   Honolulu Board of Water Supply
   Attn: Mr. Chester Lao
   Attn: Mr. Barry Usugawa
   Mr. Patrick Onishi, Chief Planning Officer
   Planning Department

FROM: Michael D. Wilson, Chairperson
   Commission on Water Resource Management

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

Transmitted for your review and comment is a copy of a water use permit application for
the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit
modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd).
Public notice of this application will be published in the Honolulu Advertiser issues of April 1
and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an
extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)

Response:

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

Contact Person: Mr. William Wong
Phone: 586-4258

Signed: Robert J. Giraldo
Date: 3/25/97
TO: Honorable Kali Watson, Chairperson
Department of Hawaiian Home Lands

Honorable Lawrence Miike, Director
Department of Health
Attn: Mr. Dennis Tulang
Attn: Mr. William Wong

Honorable Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs

Ms. Esther Ueda, Executive Officer
Land Use Commission

Mr. Raymond Sato, Manager & Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Chester Lao
Attn: Mr. Barry Usugawa

Mr. Patrick Onishi, Chief Planning Officer
Planning Department

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

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

Transmitted for your review and comment is a copy of a water use permit application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0718.

LN:ss
Attachment(s)

Response:

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

Contact Person: Esther Ueda Phone: 587-3822

Signed: Date: March 25, 1997
Mr. Michael D. Wilson, Chairperson  
Commission on Water Resource Management  
Department of Land and Natural Resources  
P.O. Box 621  
Honolulu, Hawai‘i 96809  

Dear Mr. Wilson:  

Subject: Water Use Permit Application  
Wahiawa Ground Water Management Area, Oahu  
U.S. Army - Well Nos. 2901-02 to 04, 10  

We have reviewed the subject water use permit application, as transmitted by your memorandum dated March 20, 1997, and have the following comments to offer:  

1) We confirm that the location of Well Nos. 2901-02 to 04, 10, identified as TMK: 7-6-01: 1, is within the State Land Use Agricultural District.  

2) We confirm that the location of the proposed water use, identified as TMKs: 7-7-01: 1, is partially within the State Land Use Urban District, and partially within the State Land Use Agricultural District.  

We have no further comments to offer at this time.  

Thank you for the opportunity to provide comments on the subject application.  

As requested, please find enclosed the cover memorandum for the subject application.  

If you have any questions in regards to this matter, please feel free to contact me or Leo Asuncion of my staff at 587-3822.  

Sincerely,  

ESTHER UEDA  
Executive Officer  

EU:th  
Enclosure
TO: Aquatic Resources  
Forestry and Wildlife/Natural Area Reserve System  
Historic Preservation  
Land Management  
State Parks

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

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

Transmitted for your review and comment is a copy of a water use permit modification application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss  
Attachment(s)

Response:  
MAR 25 1997  
( ) We have no comments  
( ) We have no objections  
( ) Comments attached  
Contact Person: Peter Schuyler  
Phone: 587-0059  
Signed: Peter Schuyler  
Date: 3/25/97
TO:  
Aquatic Resources  
Forestry and Wildlife/Natural Area Reserve System  
Historic Preservation  
Land Management  
State Parks  

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

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

Transmitted for your review and comment is a copy of a water use permit modification application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss  
Attachment(s)  

Response:  

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

Contact Person:  

Phone: 587-0218  

Signed:  

Date: 3/24/97
Mr. Kent Watase  
U.S. Army  
U.S. Army Garrison-Hawaii  
APVG-GWC  
Schofield Barracks, HI 96857

Dear Mr. Watase:

We acknowledge receipt, on March 14, 1997, of your completed water use permit modification application for the Schofield Shaft (Well Nos. 2901-02 to 04, 10). 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 Honolulu Advertiser issues of April 1 and 8, 1997.

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 Lenore Nakama at 587-0218.

Sincerely,

[Signature]

RAE M. LOUI
Deputy Director

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

FROM: Rae M. Loui, Deputy Director

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

Transmitted for your review and comment is a copy of a water use permit modification application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)

Response:

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

Contact Person: Phone:

Signed: Date:
TO: Other Interested Parties
FROM: Rae M. Loui, Deputy Director
SUBJECT: Request for Comments

Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 April 22, 1997 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 Lenore Nakama at 587-0218.

LN: ss
Attachment(s)

Response:

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

Contact Person: Phone: ________________________________
Signed: ________________________________ Date: ________________________________
TO: Honorable Kali Watson, Chairperson
Department of Hawaiian Home Lands
Honorable Lawrence Miike, Director
Department of Health
Attn: Mr. Dennis Tulang
Attn: Mr. William Wong
Honorable Clayton H. W. Hee, Chairperson
Office of Hawaiian Affairs
Ms. Esther Ueda, Executive Officer
Land Use Commission
Mr. Raymond Sato, Manager & Chief Engineer
Honolulu Board of Water Supply
Attn: Mr. Chester Lao
Attn: Mr. Barry Usugawa
Mr. Patrick Onishi, Chief Planning Officer
Planning Department

FROM: Michael D. Wilson, Chairperson
Commission on Water Resource Management

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

Transmitted for your review and comment is a copy of a water use permit application for
the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit
modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd).
Public notice of this application will be published in the Honolulu Advertiser issues of April 1
and 8, 1997.

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 April 22, 1997.

If you have any questions, require additional information, or would like to request an
extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN:ss
Attachment(s)

Response:

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

Contact Person: ___________________________ Phone: ___________________________

Signed: ___________________________ Date: ___________________________
TO: Ms. Jan Sullivan, Director  
Department of Land Utilization  

FROM: Michael D. Wilson, Chairperson  
Commission on Water Resource Management  

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

Transmitted for your review and comment is a copy of a water use permit application for the U.S. Army for Well Nos. 2901-02 to 04, 10. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd). Public notice of this application will be published in the Honolulu Advertiser issues of April 1 and 8, 1997.

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 zoning designation for the TMK parcel, or portion thereof, for the proposed use area(s) and, secondly, whether the current zoning designation is appropriate for the proposed water use. Please respond by returning this cover memo along with your review comments by April 22, 1997.

If you have any questions, require additional information, or would like to request an extension of the review period for this application, please contact Lenore Nakama at 587-0218.

LN: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
Honolulu, HI 96813

Dear Mayor Harris:

Notice of an Application for Water Use Permit
Wahiawa 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 U.S. Army for Well Nos. 2901-02 to 04, 10, which will be published in the Honolulu Advertiser.

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. The applicant is requesting a water use permit modification to reduce the total permitted use by 0.208 mgd (current allocation is 5.856 mgd).

Very truly yours,

MICHAEL D. WILSON
Chairperson

Enclosures
Ms. Rae M. Loui  
Deputy Director  
State of Hawaii  
Department of Land and Natural Resources  
Commission on Water Resource Management  
P.O. Box 621  
Honolulu, Hawaii 96809

Dear Ms. Loui:

Enclosed is the Department of Army’s water use permit application requesting a reduction of 208,000 gallons per day at the Army’s Schofield Battery, wells no. 2901-2,3,4, and 10. This reduction by the Army is in accordance with the Commission’s requirement to allow the U.S. Navy Public Works to begin operation of their well no. 3100-02.

If you have any questions, please contact Mr. Kent Watase at 655-6383.

Sincerely,

Dennis J. Pontana  
Colonel, U.S. Army  
Director of Public Works

Enclosure
APPLICATION FOR WATER USE PERMIT

1. (a) APPLICANT
   FirmName: U.S. Army
   Contact Person: Kent Watase
   Address: U.S. Army Garrison-Hawaii
   APHC-GMC, Schofield Brks, 96857-5000
   Phone: 655-6383
   Fax: 655-6399

2. WATER MANAGEMENT AREA: Wahiawa Ground Water Management Area
   ISLAND: Oahu

3. (a) EXISTING WELL/DIVERSION NAME AND STATE NUMBER: Schofield Battery; 2901-2,3,4,10
   (b) PROPOSED (NEW) WELL/DIVERSION NAME:
   (c) LOCATION: Address: Schofield Barracks
   Tax Map Key: 6-1-01:1

4. SOURCE TYPE (check one): Stream □ Basal □ Well □ Pump □ Diverted Surface □ Other (explain)
   TYPE (check one): Artesian □ Well □ Pump □ Diverted Surface □ Other (explain)

5. LOCATION OF PROPOSED WATER USE: (If possible, show on same maps as source location. Otherwise, attach similar maps)
   (a) PUC-Regulated System □ Intended Dedication to Dept./Board of Water Supply □ Non-PUC-Regulated Private System
   (b) Proposed use of water is: □ Existing □ New □ Both existing & new uses
   (c) Tax Map Key: 6-1-01:1
   (d) Address: Schofield Barracks

6. QUANTITY OF WATER REQUESTED: 5,648,000 (580,000) gallons per day (averaged over 1 year)

7. QUALITY OF WATER REQUESTED: □ Fresh □ Brackish □ Salt □ Potable □ Non-Potable

8. PROPOSED USE: □ Municipal (including hotels, stores, etc.) □ Individual Domestic □ Irrigation □ Industrial □ Military

9. PROPOSED TIME OF TAKING WATER (check one): Stream □ Well □ Pump □ Diverted Surface □ Other (explain)
   MEASUREMENT: Flowmeter □ Open-pipe □ Weir □ Office □ Other (explain)

10. SOURCE INFORMATION

11. TOTAL NUMBER OF RESIDENCES TO BE SERVED: □

12. TOTAL ACRES TO BE IRRIGATED AND TYPE OF CROP: □ (acres) (crop)

13. 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 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) □ U.S. Army
Landowner (print) □ U.S. Army
Signature DENNIS J. FONTANA, COL. EN, DPW
Date 1/26/99
Signature DENNIS J. FONTANA, COL. EN, DPW
Date 1/26/99

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

4. SOURCE TYPE (check one): Stream □ Basal □ Well □ Pump □ Diverted Surface □ Other (explain)
   TYPE (check one): Artesian □ Well □ Pump □ Diverted Surface □ Other (explain)

5. METHOD OF TAKING WATER (check one): □ Stream □ Well □ Pump □ Diverted Surface □ Other (explain)

6. QUANTITY OF WATER REQUESTED: □ 5,648,000 (580,000) gallons per day (averaged over 1 year)

7. QUALITY OF WATER REQUESTED: □ Fresh □ Brackish □ Salt □ Potable □ Non-Potable

8. PROPOSED USE: □ Municipal (including hotels, stores, etc.) □ Individual Domestic □ Irrigation □ Industrial □ Military

9. PROPOSED TIME OF TAKING WATER (check one): □ Stream □ Well □ Pump □ Diverted Surface □ Other (explain)
   MEASUREMENT: □ Flowmeter □ Open-pipe □ Weir □ Office □ Other (explain)

10. PROPOSED USE: □ Municipal (including hotels, stores, etc.) □ Individual Domestic □ Irrigation □ Industrial □ Military

11. TOTAL NUMBER OF RESIDENCES TO BE SERVED: □

12. TOTAL ACRES TO BE IRRIGATED AND TYPE OF CROP: □ (acres) (crop)

13. 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 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) □ U.S. Army
Landowner (print) □ U.S. Army
Signature DENNIS J. FONTANA, COL. EN, DPW
Date 1/26/99
Signature DENNIS J. FONTANA, COL. EN, DPW
Date 1/26/99

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4. SOURCE TYPE (check one): Stream □ Basal □ Well □ Pump □ Diverted Surface □ Other (explain)
   TYPE (check one): Artesian □ Well □ Pump □ Diverted Surface □ Other (explain)

5. METHOD OF TAKING WATER (check one): □ Stream □ Well □ Pump □ Diverted Surface □ Other (explain)
   MEASUREMENT: □ Flowmeter □ Open-pipe □ Weir □ Office □ Other (explain)

6. QUANTITY OF WATER REQUESTED: □ 5,648,000 (580,000) gallons per day (averaged over 1 year)

7. QUALITY OF WATER REQUESTED: □ Fresh □ Brackish □ Salt □ Potable □ Non-Potable

8. PROPOSED USE: □ Municipal (including hotels, stores, etc.) □ Individual Domestic □ Irrigation □ Industrial □ Military

9. PROPOSED TIME OF TAKING WATER (check one): □ Stream □ Well □ Pump □ Diverted Surface □ Other (explain)
   MEASUREMENT: □ Flowmeter □ Open-pipe □ Weir □ Office □ Other (explain)

10. PROPOSED USE: □ Municipal (including hotels, stores, etc.) □ Individual Domestic □ Irrigation □ Industrial □ Military

11. TOTAL NUMBER OF RESIDENCES TO BE SERVED: □

12. TOTAL ACRES TO BE IRRIGATED AND TYPE OF CROP: □ (acres) (crop)

13. 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 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) □ U.S. Army
Landowner (print) □ U.S. Army
Signature DENNIS J. FONTANA, COL. EN, DPW
Date 1/26/99
Signature DENNIS J. FONTANA, COL. EN, DPW
Date 1/26/99

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

The U.S. Army is applying for a water use permit to reduce the permitted use of the Army's Schofield Battery by 0.208 mgd for a new total of 5.648 mgd. The 0.208 mgd reduction by the Army is in accordance with the State of Hawaii Commission on Water Resource Management's requirement to allow the U.S. Navy Public Works to operate well no. 3100-02.

OK to cancel WUP No. 191 (0.152 mgd) and reduce WUP No. 191 by (0.052 mgd). (3/14/77 telephone conversation).

TABLE 1. MULTIPLE TMKs TO USE REQUESTED WATER

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>TMK</th>
<th>CURRENT COUNTY ZONING CODE</th>
<th>CURRENT COUNTY UNITS</th>
<th>GPD/UNIT or GPD/ACRE</th>
<th>TOTAL GPD</th>
<th>% OF TOTAL TO BE USED OVER NEXT 4 YEARS</th>
</tr>
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<td></td>
</tr>
</tbody>
</table>

For Official Use Only:
Date Received: ____________________ Hydrologic Unit No.: ____________________ Diversion Works No.: ____________________
Date Accepted: ____________________ Application No.: ____________________ State Well No.: ____________________

01/09/96 WUPA Form
The Honorable Keith W. Ahue
Chairperson
Commission on Water Resource Management
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

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
ITEM 2  OLD BUSINESS/ANNOUNCEMENTS

Ms. Loui reported that the draft Molokai Working Group report was available for review on the sign in desk or at the Commission office.

ITEM 3  CITY AND COUNTY OF HONOLULU, BOARD OF WATER SUPPLY, STREAM CHANNEL ALTERATION PERMIT, 30" WATER MAIN CROSSING, ALA WAI CANAL, HONOLULU

Mr. Cox asked the conditions include by reference the conditions that were approved a year ago by the Commission whereby the applicant coordinate with the people/groups using the Ala Wai Canal for recreation.

Mr. Chester Koga of R.M. Towill, representing the applicant, has coordinated with DLNR, Boating Division. An ocean water permit has been obtained and continued access by recreational users was a part of the condition.

Unanimously approved as amended (Cox/Ing).

ITEM 4  RESERVATION OF WATER FOR DEPARTMENT OF HAWAIIAN HOMES LANDS, KUALAPUU GROUND WATER MANAGEMENT AREAS, KUALAPUU, MOLOKAI

Mr. Hirano clarified that staff’s recommendation is to direct staff to initiate rule-making procedures only, not to approve the reservation.

Discussion followed regarding how the water requirements for DHHL were calculated.

Mr. Martin submitted testimony (see Commission file) stating future projections should include input from Hawaiian homestead beneficiaries.

Mr. Ing recommended adding that the Commission ratifies the action taken by staff to implement to date the rule-making procedure.

Staff recommendation unanimously approved as amended (Ing/Cox).

ITEM 5  DEPARTMENT OF ARMY, USASCH APPLICATION FOR WATER USE PERMIT, SCHOFIELD SHAFT (WELLS NOS. 2901-02, 03, 04, & 10), WAHAWA GROUND WATER MANAGEMENT AREA, OAHU

Mr. Hardy asked the following be added to recommended Conditions:

"3) That the applicant provide written justification and explanation of any 'cushion' of 500,000 gallons per day."

Unanimously approved as amended (Cox/Nakata).
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Department of the Army, USASCH
Application for Water Use Permit
Schofield Shaft (Well Nos. 2901-02,03,04,&10)
Wahiawa Ground Water Management Area, Oahu

Applicant:
DPW, USASCH
APVG-GWC-T
Fort Shafter, HI 96585

Landowner:
U.S. Army
APVG-GWC-T
Fort Shafter, HI 96585

Background

In response to the additional 9.76 million gallons per day (mgd) of water that became available for use in the Pearl Harbor Ground Water Management Area in January 1992 due to voluntary cutback in Oahu Sugar Company's aggregate water use permit allocation, the applicant submitted a completed water use permit application to the Commission on August 26, 1992. The applicant's present allocation is 5.7 mgd, and this request is for an additional 1.056 mgd of water. Action on this application was deferred pending outcome of Commission action on a submittal to designate the Wahiawa Aquifer System as a separate aquifer sector. In March 1993, the Commission formally adopted the Central Aquifer Sector boundaries which essentially comprises the Wahiawa Aquifer System. Specific information regarding the source, use, notification, objections, and field investigation(s) are described in Attachment A and the attached exhibits.

Analysis & Issues

This existing source taps high-level, potable water from the Wahiawa Aquifer System for military domestic use in the areas of Schofield Barracks and Wheeler Air Force Base. As submitted, the applicant's request is for an additional allocation of 1.056 mgd. Of the total request, 0.9 mgd is ear-marked for irrigation of two golf courses (see Exhibit 2) for improvements. Subsequent to the submission, the applicant verbally revised the estimated irrigation requirement of 0.9 mgd and provided a new estimate of between 0.4 to 0.5 mgd for the actual additional needs of the existing golf courses. However, staff has requested written updated information regarding the actual projected needs of the golf course but has only received information regarding alternative water sources. Estimated water requirements for other new projects that are scheduled for completion by or before 1996 amount to 0.156 mgd.

Because of the relatively small increase in water withdrawal requested at the site, adverse impacts on other local wells, streams, and the Wahiawa Aquifer System are not anticipated. The Board of Water Supply has expressed concern over the use of potable groundwater for golf course irrigation and has recommended that the...
applicant be required to investigate the feasibility of using surface waters to irrigate the golf courses. According to the applicant and the Department of Health there has been some discussion of using treated wastewater effluent for the additional irrigation needs but no correspondence or proposals have been made by the applicant on this matter. If approved by DOH, the applicant plans to implement the alternative source by the end of 1995. No other specific objections to this application have been submitted to the Commission.

Present authorized uses in the Wahiawa Aquifer System total 22.531 mgd, or about 98% of the aquifer’s estimated sustainable yield. The amount of available allocation is 0.224 mgd. The applicant’s total request exceeds the available amount. However, the projected military municipal needs listed in Exhibit 2 amount to 0.156 mgd which would fall within the 0.224 mgd available for allocation. However, it is anticipated that the golf course’s final projected needs will exceed the available allocation.

Presently, there is a discrepancy between actual and permitted water use in the Wahiawa Aquifer System. Although allocated to 98% of sustainable yield, the current 12-month moving average reported by all authorized users in the Wahiawa Aquifer System amounts to 8.125 mgd, or about 35% of the system’s estimated sustainable yield. This is caused primarily by reduced pumping from the Waialua Sugar Co.’s (WSCo.) wells and lack of information on water withdrawals by Del Monte Corporation. WSCo., which has an aggregate allocation of 8.44 mgd, is no longer pumping water from two of their three existing well sources. On the basis of WSCo’s latest monthly water use report, the actual 12-month moving average withdrawal at their only operational source is 0.765 mgd, which is about 9% of their total authorized allocation. Del Monte Corporation, which has permitted use of up to 4.121 mgd, has not submitted reports of water usage for the past year. Lastly, it should also be noted that the actual 12-month moving average withdrawal of the applicant’s existing wells at the Army’s Schofield Shaft is 3.7 mgd, which is about 65% less than their present authorized allocation of 5.7 mgd. The Army’s apparent cushion of 2.0 mgd is substantial relative to the additional allocation being requested.

Staff is currently in the process of updating actual water needs of each authorized user in the system and will correspondingly update present permitted use allocations. There are no other pending applications for water use permits in the Wahiawa Aquifer System.

RECOMMENDATION

1. That the Commission approve the issuance of an interim water use permit to the Director of Public Works, U.S. Army Support Command Hawaii for the reasonable and beneficial use of 156,000 gallons per day of potable water for municipal use from the Schofield Shaft (Well Nos. 2901-02, 03, 04, & 10), subject to the standard water use permit conditions listed in Attachment B and the following special condition:

a. The water use permit shall be an interim permit subject to the five-year verification period afforded to existing users.

2. That the Commission defer action on that portion of the total requested allocation to be used for golf course irrigation pending
Chairperson and Members  
Commission on Water Resource Management  
August 18, 1993

further information as to the exact quantity of additional irrigational needs for the two golf courses and an investigation of the feasibility of utilizing alternative water sources, including Wahiawa reservoir, for irrigation of the golf courses is provided.

Respectfully submitted,

RAE M. LOUI  
Deputy Director

Attach.

APPROVED FOR SUBMITTAL:

KEITH W. AHUE, Chairperson
WATER USE PERMIT DETAILED INFORMATION

Source Information

AQUIFER: Wahiawa System, Central Sector, Oahu
Sustainable Yield: 23 mgd
Existing Water Use Permits: 22.776 mgd
Available Allocation: 0.224 mgd
Total of other pending allocations: 0 mgd

WELL: Schofield Shaft (Well No. 2901-02)
Location: Schofield Deepwell WTP, Oahu, TMK:7-6-1:1
Year Drilled: 1936
Casing Diameter: 17 in.

Elevations (msl = 0 ft.)
Initial Static Head: 284 ft.
Ground: 287 ft.
Bottom of Solid Casing: NA ft.
Bottom of Perforated: NA ft.
Bottom of Open Hole: 137 ft.

Total Depth: 150 ft.
Grouted Annulus Depth: NA ft.

WELL: Schofield Shaft (Well No. 2901-03)
Location: Schofield Deepwell WTP, Oahu, TMK:7-6-1:1
Year Drilled: 1936
Casing Diameter: 17 in.

Elevations (msl = 0 ft.)
Water Level: NA ft.
Ground: 287 ft.
Bottom of Solid Casing: 201 ft.
Bottom of Perforated: NA ft.
Bottom of Open Hole: 147 ft.

Total Depth: 140 ft.
Grouted Annulus Depth: NA ft.

WELL: Schofield Shaft (Well No. 2901-04)
Location: Schofield Deepwell WTP, Oahu, TMK:7-6-1:1
Year Drilled: 1936
Casing Diameter: 17 in.

Elevations (msl = 0 ft.)
Water Level: NA ft.
Ground: 287 ft.
Bottom of Solid Casing: 84 ft.
Bottom of Perforated: NA ft.
Bottom of Open Hole: 23 ft.

Total Depth: 264 ft.
Grouted Annulus Depth: NA ft.

WELL: Schofield Shaft (Well No. 2901-10)
Location: Schofield Deepwell WTP, Oahu, TMK:7-6-1:1
Year Drilled: 1956
Casing Diameter: 16 in.

ATTACHMENT A
Chairperson and Members
Commission on Water Resource Management

August 18, 1993

Elevations (msl = 0 ft.)

- Water Level: NA ft.
- Ground: 287 ft.
- Bottom of Solid Casing: 9 ft.
- Bottom of Perforated: NA ft.
- Bottom of Open Hole: 0 ft.

Total Depth: 287 ft.
Grouted Annulus Depth: NA ft.

Use Information

Quantity Requested: 1,056,000 gallons per day.
Proposed Type of Water Use: Military domestic
Place of Water Use: Schofield Barracks, Oahu at TMK: 7-7-1:1

Reported Water Usage:
(12-Month Moving Average as of May 1993) 3.663 mgd
Nearby Similar Water Usage: NA gpd
Wahiawa Aquifer System
Current 12-Month Moving Average Withdrawal: 8.125 mgd
(35% of SY)

Nearby Surrounding Wells and Other Registered Ground Water Use

There are four (4) other wells within a mile of the Schofield Battery (see Exhibit 1). Three (3) of these wells are currently being used for municipal purposes by the Honolulu Board of Water Supply. Information from the registration program indicates there are possibly 201 existing wells in the Wahiawa 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. Of course, there are several significant users which have not been fully verified to date. However, the Oahu Water Use and Development Plan estimated that the existing withdrawals from the Wahiawa Aquifer System is 7.9 mgd as of 1990.

Public Notice

In accordance with HAR §13-171-17, a public notice was published in the Star-

ATTACHMENT A
Chairperson and Members
Commission on Water Resource Management

Bulletin on October 5, 1992 and October 12, 1992 and copies of the notice were sent to the Mayor’s office and the Board of Water Supply. Additional notice copies were sent to the County Council. Copies of the completed application were sent to the Department of Health, Department of Hawaiian Home Lands, Office of Hawaiian Affairs, Aquatic Resources & Historic Preservation Divisions of the Department of Land and Natural Resources, and other interested parties for comments. Written comments and objections to the proposed permit were to be submitted to the Commission by October 26, 1992.

Objections/Comments

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 by October 26, 1992.

To the best of staff’s knowledge there are no objectors who have property interest within the Wahiawa Aquifer System or who will be directly and immediately affected by the proposed water use. They are 1). All objections and/or comments to the application are summarized as follows:

<table>
<thead>
<tr>
<th>Objector/Commentor</th>
<th>Objection/Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Native Hawaiian Advisory Council</td>
<td>General process of water use permit applications. No specific objections to this application.</td>
</tr>
<tr>
<td>Division of Aquatic Resources</td>
<td>No objections.</td>
</tr>
<tr>
<td>Historic Preservation Division</td>
<td>No effect.</td>
</tr>
<tr>
<td>Board of Water Supply</td>
<td>Recommend denial of the permit application pending feasibility study of use of surface waters for golf course irrigation.</td>
</tr>
</tbody>
</table>

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.

Field Investigation

The water source and existing use was investigated on October 3, 1988. The investigation(s) verified the physical characteristics of the shaft and pump distribution system.
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.

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

5. The ground water use 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 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 August 18, 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.

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.

ATTACHMENT B
10. If the ground water source is not existing, the development of 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. If the ground water source is not existing, 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;

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 Wahiawa 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 request modification of the permit when necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee’s water use.

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 Wahiawa Ground Water Management Area.

17. The water use permit granted shall be an interim water use permit, as allowed under 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.

ATTACHMENT B
15. **REMARKS, EXPLANATIONS (cont'd):** The following new project list and the estimated water requirements are projected for completion on or before 1996.

<table>
<thead>
<tr>
<th>Project</th>
<th>Area in SF</th>
<th>Est H2O Use(gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Range General Purpose Warehouse</td>
<td>120,000</td>
<td>1000</td>
</tr>
<tr>
<td>Leilehua Golf Course Irrigation</td>
<td>---</td>
<td>450,000</td>
</tr>
<tr>
<td>Non TOE Maintenance Facility</td>
<td>30,000</td>
<td>10,000</td>
</tr>
<tr>
<td>DOL Administration Facility</td>
<td>24,000</td>
<td>1000</td>
</tr>
<tr>
<td>Schofield Branch Exchange</td>
<td>7,250</td>
<td>5,000</td>
</tr>
<tr>
<td>MOUT Firing Range Warehouse</td>
<td>4,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Multipurpose Firing Range</td>
<td>1480</td>
<td>1,000</td>
</tr>
<tr>
<td>Education Center/Library</td>
<td>64,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Gas Station and Branch Exchange</td>
<td>5,800</td>
<td>5,000</td>
</tr>
<tr>
<td>102 Family Housing Units at Leader</td>
<td>---</td>
<td>40,000</td>
</tr>
<tr>
<td>Kalakaua Golf Course Irrigation</td>
<td>---</td>
<td>450,000</td>
</tr>
<tr>
<td>Transient Lodging Facility</td>
<td>(184 rooms)</td>
<td>35,000</td>
</tr>
<tr>
<td>100 Family Hsg Units at Area A</td>
<td>---</td>
<td>40,000</td>
</tr>
<tr>
<td>Toyland</td>
<td>20,000</td>
<td>1,000</td>
</tr>
<tr>
<td>CIDC Field Operations Facility</td>
<td>13,000</td>
<td>1,000</td>
</tr>
<tr>
<td>VA Administration Facility</td>
<td>36,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Wheeler Airfield Child Dev Ctr</td>
<td>(99 child occupancy)</td>
<td>3,000</td>
</tr>
</tbody>
</table>

**Total = 1.056 MGD**
MINUTES
FOR THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: August 18, 1993
TIME: 9:00 a.m.
PLACE: DLNR Board Room
Kalanikou Building
Honolulu, Hawaii

Chairperson Ahue called the meeting of the Commission on
Water Resource Management to order at 9:05 a.m.

The following were in attendance:

MEMBERS: Mr. Richard Cox
Mr. Robert Nakata
Mr. Guy Fujimura
Mr. J. Douglas Ing

STAFF: Ms. Rae Loui
Mr. Roy Hardy
Mr. David Higa
Ms. Lenore Nakama

OTHERS:
Theodore Kishimori
Chester Koga
Francis Fung
Steven MacCara
Barry Ching
Dawn Ramsey
Dana DeSors
John Mink

Brian Takeda
Mark Katkow
Ben Henderson
D. Yoshinaga
Adam Gauld
Susan Cabrejos
George Yuen
Edsel Yamada

All written testimonies submitted at the meeting are filed in the Commission office and
are available for review by interested parties.

ITEM 1 MINUTES OF THE JULY 28, 1993 MEETING

Ms. Loui amended the minutes to show the approval of the minutes by
Douglas Ing and Richard Cox.

Mr. Dave Martin of the Native Hawaiian Advisory Council (NHAC)
submitted testimony (see Commission file) that he understood only the well
construction permit was approved. Ms. Loui stated that it was the staff
recommendation that was approved and agreed that it should read as such.

Mr. Ing moved that the minutes be approved as amended by Ms. Loui.
Unanimously approved (Ing/Cox).
Chairperson and Members  
Commission on Water Resource Management  
July 28, 1993

ITEM 2  OLD BUSINESS/ANNOUNCEMENTS

Ms. Loui reported that the draft Molokai Working Group report was available for review on the sign in desk or at the Commission office.

ITEM 3  CITY AND COUNTY OF HONOLULU, BOARD OF WATER SUPPLY, STREAM CHANNEL ALTERATION PERMIT, 30° WATER MAIN CROSSING, ALA WAI CANAL, HONOLULU

Mr. Cox asked the conditions include by reference the conditions that were approved a year ago by the Commission whereby the applicant coordinate with the people/groups using the Ala Wai Canal for recreation.

Mr. Chester Koga of R.M. Towill, representing the applicant, has coordinated with DLNR, Boating Division. An ocean water permit has been obtained and continued access by recreational users was a part of the condition.

Unanimously approved as amended (Cox/Ing).

ITEM 4  RESERVATION OF WATER FOR DEPARTMENT OF HAWAIIAN HOMES LANDS, KUALAPUU GROUND WATER MANAGEMENT AREAS, KUALAPUU, MOLOKAI

Mr. Hirano clarified that staff’s recommendation is to direct staff to initiate rule-making procedures only, not to approve the reservation.

Discussion followed regarding how the water requirements for DHHL were calculated.

Mr. Martin submitted testimony (see Commission file) stating future projections should include input from Hawaiian homestead beneficiaries.

Mr. Ing recommended adding that the Commission ratifies the action taken by staff to implement to date the rule-making procedure.

Staff recommendation unanimously approved as amended (Ing/Cox).

ITEM 5  DEPARTMENT OF ARMY, USASCH APPLICATION FOR WATER USE PERMIT, SCHOFIELD SHAFT (WELLS NOS. 2901-02, 03, 04, & 10), WAIHAWA GROUND WATER MANAGEMENT AREA, OAHU

Mr. Hardy asked the following be added to recommended Conditions:

"3) That the applicant provide written justification and explanation of any ‘cushion’ of 500,000 gallons per day."

Unanimously approved as amended (Cox/Nakata).
ITEM 6
ROYAL HAWAIIAN COUNTRY CLUB APPLICATION FOR A
WATER USE PERMIT, ROYAL HAWAIIAN 1, 2, 4, & 6 WELLS
(WELL NOS. 2145-01, 02, 04, & 2045-06), WAIMANALO GROUND
WATER MANAGEMENT AREA, KAILUA, OAHU

Withdrawn by the applicant prior to the meeting.

ITEM 7
OTHER BUSINESS

1) Mr. Cox met with Mr. Warren Iwasa, Executive Director of the
Review Commission on the State Water Code (Review Commission)
to discuss the ASCE Code. Mr. Cox recommended that Mr. Ray
Davis from ASCE come to Hawaii to attend a joint meeting of the
Commissions. He suggested Commission staff work with Mr. Iwasa
to finalize details and funding.

2) Discussion followed on the list of changes to the Water Code.
Mr. Cox stated that some of the changes as proposed are major
changes. He suggested that the Commission should not be making
the recommendations but should only raise them as issues.

ADJOURNMENT The meeting was adjourned at 10:52 a.m.

Respectfully submitted,

SHARON S. KOKUBUN
Secretary

APPROVED AS SUBMITTED

RAE M. LOUI, Deputy Director
Mr. Chris Takashige
DPW, USASCH
APVG-GWC-T
Fort Shafter, HI 96585

Dear Mr. Takashige:

Commission Submittal for your Water Use Permit
Wahiawa Ground Water Management Area, Oahu

The Commission on Water Resource Management will be acting on your water use permit application for the Schofield Shaft (Well Nos. 2901-02, 03, 04 & 10) at its August 18, 1993 meeting at 9:00 a.m. at the Department of Land and Natural Resources Board Room.

A copy of the submittal for action on your water use application is enclosed for your information and review. You may wish to attend the meeting in case the Commissioners have questions regarding your application. Otherwise, we will notify you of the Commission's decision soon thereafter.

If you have any questions, please contact Roy Hardy at 587-0274.

Sincerely,

RAE M. LOUI
Deputy Director
Directorate of Public Works

Ms. Rae M. Loui  
Deputy Director  
Commission on Water Resource Management  
State of Hawaii  
Department of Land and Natural Resources  
P. O. Box 621  
Honolulu, Hawaii 96809

Dear Ms. Loui:

We have received telephone information that the Army's water use permit applications of March 16, 1989 for an additional 0.245 MGD and of August 24, 1992 for an additional 1.056 MGD have not yet been approved, and that additional information and documentation are required in the format of the form telefaxed to us by Mr. Roy Hardy on June 30, 1993. He has also requested written documentation of the Army's long-term intent regarding irrigation of the Army golf courses at Schofield.

Please note that the detailed breakdown of the estimated usage is contained in the remarks of the August 24, 1992 application and that the 500 housing units identified are for the housing just completed at Helemano Military Reservation.

As for the Leilehua and Kalakaua Golf Courses, the Army is in the process of obtaining Department of Health approval to use treated effluent from our wastewater treatment plant at Wheeler Army Airfield. The effluent is currently being used by the Waialua Sugar Company. If and when approved, the schedule is to try to do this by FY95. The impact on our allocation request is that water consumption can be estimated to be reduced by 900 kgal per day when we start to use treated water for our golf course irrigation system.
In the meanwhile, we are continuing with construction of the projects shown on our August 24, 1992 application. Request expeditious approval of our applications of increases in our water use allocation.

Sincerely,

[Signature]

Charles R. Wilson
Colonel, U.S. Army
Director of Public Works
30 Jul 1993

Directorate of Public Works

Ms. Rae M. Loui
Deputy Director
Commission on Water Resource Management
State of Hawaii
Department of Land and Natural Resources
P. O. Box 621
Honolulu, Hawaii 96809

Dear Ms. Loui:

We have received telephone information from the Army’s water use permit application for an additional 0.245 MGD and on an additional 1.056 MGD have not received any written documentation of the Army’s detailed breakdown of the estimated usage. The information required in the format of the form we sent on June 30, 1993. We have spoken with Mr. Roy Hardy on June 30, 1993. He said that additional information and details required in the format of the form were sent to us on August 24, 1992. Please note that the detailed breakdown of the estimated usage is contained in the remarks of the application and that the 500 housing units identified are for the housing just completed at Halemano Military Reservation.

As for the Leilehua and Kalakaua Golf Courses, the Army is in the process of obtaining Department of Health approval to use treated effluent from our wastewater treatment plant at Wheeler Army Airfield. The effluent is currently being used by the Waialua Sugar Company. If and when approved, the schedule is to try to do this by FY95. The impact on our allocation request is that water consumption can be estimated to be reduced by 900 kgal per day when we start to use treated water for our golf course irrigation system.

Sincerely,

[Signature]

[Date]

[Signature]
In the meanwhile, we are continuing with construction of the projects shown on our August 24, 1992 application. Request expeditious approval of our applications or increases in our water use allocation.

Sincerely,

ORIGINAL SIGNED BY:
Charles R. Wilson
Colonel, U.S. Army
Director of Public Works
Colonel Charles R. Wilson
Director of Public Works
U.S. Department of the Army
Fort Shafter, HI 96856-5000

Dear Colonel Wilson,

Attorney General Review
of Water Use Permits for Schofield Shaft

As stated in our September 18, 1989 letter to you, your water use permit application for an additional 0.245 mgd for the Schofield Shaft was approved by the Commission on July 19, 1989, subject to Attorney General review. We assume this is the application to which you were referring. We have no record of a similar application submitted in 1991.

Presently, your water use permit form (for yours and all others) is still under review by the Attorney General's office. There are no problems with your permit and it is being treated as fully approved by the Commission.

If you have any further questions, please contact Mr. William Tam of the Attorney General's Office at 587-2982. In the meantime, your permit is considered fully approved.

Sincerely,

RAE M. LOUI
Deputy Director

TRANSMISSION REPORT

THIS DOCUMENT (REDUCED SAMPLE ABOVE) WAS SENT

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XEROX TELECOPIER 7020
Ms. Rae M. Loui  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
State of Hawaii  
P. O. Box 621  
Honolulu, Hawaii 96809

Dear Ms. Loui:

Subject: YOUR LETTER OF OCTOBER 9, 1992 ON WATER USE PERMIT APPLICATION FOR U. S. ARMY SCHOFIELD SHAFT WELLS NO. 2901-02 TO 04 AND 10

Thank you for the opportunity to comment on the application. Our policy is to require golf courses to use nonpotable water rather than water of drinking quality for irrigation. Schofield, however, is located in the no-pass zone over a major potable aquifer and the use of nonpotable water for golf course irrigation is considered to have a potential for adversely effecting the underlying aquifer.

The Army should first be required to investigate the feasibility of using stream flows and water from Wilson Reservoir to irrigate the golf courses. Therefore, we recommend denial of their application to drill potable water wells for irrigation of the golf courses until the Army has looked at this alternative.

If you have any questions, please call George Hiu at 527-6134.

Very truly yours,

KAZU HAYASHIDA  
Manager and Chief Engineer
MEMORANDUM

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

FROM: Don Hibbard, Administrator  
Historic Preservation Division

SUBJECT: Water Use Permit Application, Wahiawa Ground Water Management Area, Well Nos. 2901-02 to 04  
Wahiawa, O'ahu  
TMK: 7-6-1: 1

Thank you for the opportunity to review this project. This application concerns the use of water drawn from an existing well. Therefore, we believe that any permit granted this application will have "no effect" on historic sites.

TD: amk
State of Hawaii
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

COMMENTS ON APPLICATIONS FOR WATER USE--WAHIAWA WATER MANAGEMENT AREA

1. DPW, USASCH Well Nos. 2901-02 and/or 04
2. All (Future/Subsequent) Applications for Wahiawa GWMA

Dear Commissioners:

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 use. 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.

NHAC requests clarification of COWRM's referencing the applications listed above as being within the Wahiawa Ground Water Management Area, Oahu. This is the first time we have seen such a reference. Has there been a decision to break the Pearl Harbor Water Management area into sectors? This will have broad implications which merit public discussion and which must meet other rule-making requirements.

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 finite application periods. Then after each application period is closed, and surveys of water rights and reserved water uses are completed, COWRM can assess and evaluate each application with regard to competing applications, reserved water uses, water rights, and the overall water situation in each hydrologic unit. Without such a
Commission on Water Resource Mgmt.
RE: Comments on Applications for Water Use
October 21, 1992
Page 2

process, COWRM will not be able to meet Water Code requirements for evaluating competing uses within the framework of the "reasonable and beneficial" standard and other legally-imposed constraints.

In the case of Pearl Harbor Water Management Area, COWRM has identified a new cushion of water which can be allocated. Staff has received over 80 applications for these approximately 10 mgd of allocations. There is no way that the current first-come, first-served processing of applications can equitably resolve this situation. A finite application period for these allocations should be established, after which all applications received can be comprehensively processed.

We, therefore, state our overall objection to current COWRM procedures and policies regarding water use permit application processing, in a large part, because they do not yet exist. We reserve the right to submit specific objections to proposed permits at later dates, since at present there is insufficient information about the overall context of such permits to allow a fair and informed assessment.

NHAC requests that COWRM postpone decision making on all water use permit applications for the above-discussed Water Management Areas until after the application period has closed and the necessary assessments of water rights and reserved water uses have been completed.

Mahalo,

David L. Martin, Vice-President

DLM/DCP:tr
MEMORANDUM

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

FROM: Henry M. Sakuda, Administrator
      Division of Aquatic Resources

SUBJECT: Comments on Water Use Permit Application for DPW, USACH for
         Well Nos. 2901-02 to 04 at Schofield, Oahu

The proposal involves installation of wells to access basal and dike-
confined water for golf course irrigation. Approximately 1.06 million gallons
will be pumped per day.

There appears to be no potential for impact on the adjacent Wahiawa
Reservoir or other surface waters. We therefore have no objection with reference
to the potential effects on the aquatic biota.
Honorable Walter Watson, Jr., Chair  
Board of Water Supply  
630 South Beretania Street  
Honolulu, Hawaii  96843  

Dear Mr. Watson:  

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

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the public notice which was published in the Honolulu Star Bulletin.  

In addition, Section 13-171-13(b) 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]  
WILLIAM W. PATY  

Enc.
Honorable Arnold Morgado, Jr., Chair
City Council
City & County of Honolulu
City Hall
Honolulu, Hawaii 96813

Dear Mr. Morgado:

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

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the public notice which was published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) 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]

WILLIAM W. PATY

Attach.
Honorable Frank F. Fasi, Mayor
City & County of Honolulu
City Hall
Honolulu, Hawaii 96813

Attn: Mr. Jeremy Harris

Dear Mayor Fasi:

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

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the public notice which was published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) 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]

Enc.
Mr. Clayton H. W. Hee
Chairman & Trustee At Large
Office of Hawaiian Affairs
711 Kapiolani Blvd., Suite 500
Honolulu, Hawaii 96813-5249

Attn: Ms. Linda Delaney, Land & Natural Resources Division

Dear Mr. Hee:

Water Use Permit Application
Wahiawa Ground Water Management Area, Oahu

Transmitted for your review and comment is a copy of a water use permit application for DPW, USASCH for Well Nos. 2901-02 to 04.

If you have any objections or comments on the above application, please submit them to us in writing by October 26, 1992.

Should you have any questions, please contact Ms. Rae M. Loui, Deputy Director, at 587-0214.

Very truly yours,

[Signature]

WILLIAM W. PATY

Enc.
MEMORANDUM

TO: Honorable Hoaliku L. Drake, Director
   Department of Hawaiian Home Lands

FROM: William W. Paty, Chairperson

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

Transmitted for your review and comment is a copy of a water use permit application for DPW, USASCH for Well Nos. 2901-02 to 04.

If you have any objections or comments on the above application, please submit them to us in writing by October 26, 1992.

Should you have any questions, please contact Ms. Rae M. Loui, Deputy Director, at 587-0214.

Enc.
Mr. Dave Martin  
Native Hawaiian Advisory Council  
1088 Bishop St., Suite 1204  
Honolulu, Hawaii 96813  

Dear Mr. Martin:

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

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the water use application public notice for DPW, USASCH for Well Nos. 2901-02 to 04 which was published in the Honolulu Star Bulletin.

If you have any objections or comments on the above application, please submit them to us in writing by October 26, 1992.

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

Sincerely,

RAE M. LOUI  
Deputy Director

RH:ko  
Enc.
Mr. Kazu Hayashida  
Manager and Chief Engineer  
Board of Water Supply  
630 south Beretania Street  
Honolulu, Hawaii 96843

Dear Mr. Hayashida:

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

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the public notice which was published in the Honolulu Star Bulletin.

In addition, Section 13-171-13(b) 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.

Sincerely,

[Signature]

RAE M. LOUI  
Deputy Director

RH:ko  
Attach.
Mr. Dave Martin  
Native Hawaiian Advisory Council  
1088 Bishop St., Suite 1204  
Honolulu, Hawaii 96813

Dear Mr. Martin:

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

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the water use application public notice for DPW, USASCH for Well Nos. 2901-02 to 04 which was published in the Honolulu Star Bulletin.

If you have any objections or comments on the above application, please submit them to us in writing by October 26, 1992.

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

Sincerely,

RAE M. LOUI  
Deputy Director

RH:ko  
Enc.
Ms. Marjorie Ziegler
Sierra Club Legal Defense Fund, Inc.
212 Merchant Street, Room 202
Honolulu, Hawaii 96813

Dear Ms. Ziegler:

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

In accordance with the Department of Land and Natural Resource Administrative Rule, Section 13-171-17(a), we are sending you a copy of the water use application public notice for DPW, USASCH for Well Nos. 2901-02 to 04, which was published in the Honolulu Star Bulletin.

If you have any objections or comments on the above application, please submit them to us in writing by October 26, 1992.

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

Sincerely,

RAE M. LOUI
Deputy Director

RH:ko
Enc.
MEMORANDUM

TO: Mr. Henry M. Sakuda, Administrator
   Aquatic Resources Division

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

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

Transmitted for your review and comment is a copy of a water use permit application for DPW, USASCH for Well Nos. 2901-02 to 04.

If you have any objections or comments on the above application, please submit them to us in writing by October 26, 1992.

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

RH:ko
Attach.
MEMORANDUM

TO: Mr. Don Hibbard, Director
    Historic Preservation Program Division

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

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

Transmitted for your review and comment is a copy of a water use permit application for DPW, USASCH for Well Nos. 2901-02 to 04.

If you have any objections or comments on the above application, please submit them to us in writing by October 26, 1992.

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

RH:ko
Attach.
MEMORANDUM

TO: Mr. Thomas Arizumi, Chief
    Environmental Management Division
    State Department of Health

ATTN: Mr. William Wong

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

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

Transmitted for your review and comment is a copy of a water use permit application for DPW, USASCH for Well Nos. 2901-02 to 04.

If you have any objections or comments on the above application, please submit them to us in writing by October 26, 1992.

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

RH:ko
Enc.
FACSIMILE TRANSMITTAL PAGE

Please deliver the following pages to:

Hawaii Newspaper Agency
Honolulu Star Bulletin  Attn: Legal Advertising

Name: 
Company: 
From: 
Date: September 30, 1992  Time: 10:15 am

Message: PUBLIC NOTICE: Applications for Water Use Permits
Ground Water Management Areas, Oahu & Molokai

Total number of pages (including Transmittal Page): 5

If you do not receive all of the pages legibly, please call back: (808) 387-0225
Sending Facsimile Number: (808) 387-0219
Receiving Facsimile Number: (808) 525-7449

TRANSMISSION REPORT

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From: ______________________________

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Ground Water Management Areas, Oahu & Molokai

Total number of pages (including Transmittal Page): 5

If you do not receive all of the pages legibly, please call back: (808) 587-0225

Sending Facsimile Number: (808) 587-0219
Receiving Facsimile Number: (808) 525-7449
PUBLIC NOTICE

Applications for Water Use Permits
Ground Water Management Areas, OAHU & MOLOKAI

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".

HONOLIULI 1-4 (Well No. 2303-10)
Applicant: CAMPBELL ESTATE
828 Fort St. Mall, Ste. 500
Honolulu, HI 96813
Date Completed Application Received: September 1, 1992
Aquifer: WAIPAHU System, PEARL HARBOR Sector, OAHU
Well Source: HONOLIULI 1-4, Well No. 2303-10, HONOLIULI, EWA, OAHU at Tax Map Key: 9-2-1:1
Quantity Requested: 1,120,000 gallons per day
Proposed Water Use: MUNICIPAL FOR KAPOLEI CITY AND BUSINESS
Place of Water Use: KAPOLEI CITY AND BUSINESS at Tax Map Key: 9-1-15 & 16

HONOLIULI 1-5 (Well No. 2302-05)
Applicant: CAMPBELL ESTATE
828 Fort Street Mall, Ste. 500
Honolulu, HI 96813
Date Completed Application Received: September 1, 1992
Aquifer: WAIPAHU System, PEARL HARBOR Sector, OAHU
Well Source: HONOLIULI 1-5, Well No. 2302-05, HONOLIULI, EWA, OAHU at Tax Map Key: 9-2-1:1
Quantity Requested: 1,120,000 gallons per day
Proposed Water Use: MUNICIPAL KAPOLEI CITY AND BUSINESS
Place of Water Use: KAPOLEI CITY AND BUSINESS at Tax Map Key: 9-1-15 & 16

HONOLIULI 1-6 (Well No. 2302-06)
Applicant: CAMPBELL ESTATE
828 Fort Street Mall, Ste. 500
Honolulu, HI 96813
Date Completed Application Received: September 1, 1992
Aquifer: WAIPAHU System, PEARL HARBOR Sector, OAHU
Well Source: HONOLIULI 1-6, Well No. 2302-06, HONOLIULI, EWA, OAHU at Tax Map Key: 9-2-1:1
Quantity Requested: 1,120,000 gallons per day
Proposed Water Use: MUNICIPAL FOR KAPOLEI CITY AND BUSINESS
Place of Water Use: KAPOLEI CITY AND BUSINESS at Tax Map Key: 9-1-15 & 16

(more)
HONOUUUU (Well No. 2403-01)
Applicant: CAMPBELL ESTATE
828 Fort Street Mall, Ste. 500
Honolulu, HI 96813
Date Completed Application Received: September 1, 1992
Aquifer: EWA-KUNIA System, PEARL HARBOR Sector, OAHU
Well Source(s): HONOUUUU III-1, Well No. 2403-01, HONOUUUU, EWA, OAHU at
Tax Map Key: 9-2-1:1
Quantity Requested: 1,040,000 gallons per day
Proposed Water Use: MUNICIPAL FOR KAPOLEI CITY AND BUSINESS
Place of Water Use: KAPOLEI CITY AND BUSINESS at Tax Map Key: 9-1-15 & 16

HENRY F. (Well No. 4002-06)
Applicant: FRANK A. HENRY
59-202 Kamehameha Hwy.
Haleiwa, HI 96712
Date Completed Application Received: August 8, 1992
Aquifer: KAWAILOA System, NORTH Sector, OAHU
Well Source(s): HENRY F., Well No. 4002-06, at 59-202 Kamehameha Hwy., OAHU at
Tax Map Key: 5-9-13:17
Quantity Requested: 5,000 gallons per day
Proposed Water Use: IRRIGATION OF FOUR (4) ACRES OF PASTURE LAND
Place of Water Use: 59-202 KAMEHAMEHA HWY at Tax Map Key: 5-9-13:17

SCHOFIELD SHAFT (Well No. 2901-02)
Applicant: DPW, USASCH
APVG-GWC-T
Fort Shafter, HI 96585
Date Completed Application Received: August 26, 1992
Aquifer: WAHIAWA System, CENTRAL Sector, OAHU
Well Source(s): SCHOFIELD SHAFT, Well Nos. 2901-02 to 04, a SCHOFIELD DEEPWELL WTP, OAHU at Tax Map Key: 7-6-1:1
Quantity Requested: 1,056,000 gallons per day
Proposed Water Use: MILITARY USE FOR DOMESTIC PURPOSES AND IRRIGATION OF LEILEHUA AND KALAKAUA GOLF COURSE, SCHOFIELD, OAHU
Place of Water Use: VARIOUS, SCHOFIELD, OAHU at Tax Map Key: 7-7-1:1

MILILANI MAUKA A, B, & C (Well Nos. 2858-01 to 03)
Applicant: CASTLE & COOKE
650 Iwilei Rd.
Honolulu, HI 96817
Date Completed Application Received: September 1, 1992
Aquifer: WAHIAWA System, PEARL HARBOR Sector, OAHU
Well Source(s): MILILANI MAUKA A, B, & C, Well Nos. 2858-01 to 03, CENTRAL OAHU at
Tax Map Key: 9-5-3:1
Quantity Requested: 2,380,000 gallons per day
Proposed Water Use: MUNICIPAL MILILANI MAUKA ZONE 1B DEVELOPMENT
Place of Water Use: 95-2000 MEHEULA PARKWAY at Tax Map Key: 9-5-2:1

(more)
WAIPAHU III (Well Nos. 2459-26 to 30)
Applicant: HONOLULU BWS
630 S. Beretania St.
Honolulu, HI 96843
Date Completed Application Received: September 1, 1992
Aquifer: WAIPAHU System, PEARL HARBOR Sector, OAHU
Well Source: WAIPAHU III, WAPIO GENTRY, OAHU at Tax Map Key: 9-4-7:1
Quantity Requested: 3,000,000 gallons per day, total, from five wells
Proposed Water Use: MUNICIPAL
Place of Water Use: MUNICIPAL SYSTEM IN EWA INCLUDING 2.0 MGD FOR VILLAGES OF KAPOLEI STATE PROJECT at Tax Map Key: 9-1-16:25 & OTHER AREAS IN THE EWA AREA, OAHU

SHIGE'S FARM (Well No. 0352-03)
Applicant: SHIGENOBU INOYUE
P.O. Box 457
Kaunakakai, HI 96748
Date Completed Application Received: July 7, 1992
Aquifer: KAWELA System, SOUTHEAST Sector, MOLOKAI
Well Source(s): SHIGE'S FARM, Well No. 0352-03, near SHIGE'S FARM at MOLOKAI, Tax Map Key: 5-6-7:48
Quantity Requested: 2,000 gallons per day
Proposed Water Use: IRRIGATION FOR 8.9 ACRES OF TRUCK CROP
Place of Water Use: KAMALO, MOLOKAI, HI at Tax Map Key: 5-6-7:48

Written objections or comments on the applications for water use may be filed by any person who has property interest in any land within the hydrologic unit of the source of water supply or who will be directly and immediately affected by the proposed water uses. 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 26, 1992 to 1) the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809, and 2) a copy of the letter to the applicant at the above address.

COMMISSION ON WATER RESOURCE MANAGEMENT

William W. Paty, Chairperson

Dated: SEP 30 1992

Publish in: Honolulu Star Bulletin, issues of OCTOBER 5 & 12, 1992
The State of Hawaii is an EQUAL EMPLOYMENT OPPORTUNITY and AFFIRMATIVE ACTION employer. We encourage the participation of women and minorities in all phases of employment.

### PUBLIC NOTICE

Applications for Water Use Permits
Ground Water Management Areas, Oahu & Molokai

Publish in issues of October 5 & 12, 1992
(see attached notice)

Price List No. PL 92-66

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### BILLING ADDRESS
P.O. Box XXXX
Honolulu, Hawaii 96801

**ATTN:** Legal Ad

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**STATE OF HAWAII**

**REQUISITION & PURCHASE ORDER**

**DEPARTMENT OF LAND AND NATURAL RESOURCES**

**CWRM**

**NOTICE TO VENDORS**

Conditions of purchase are listed on the back side of this purchase order. Please read carefully. Payments may be delayed if all steps are not followed.

**Hawaii Newspaper Agency**
Honolulu Star Bulletin
P.O. Box XXXX 3350
Honolulu, Hawaii 96801

**ATTN:** Legal Ad

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**DELIVERY ADDRESS**

**DELIVERY ADDRESS**

**BILLING ADDRESS**

**APPLICATIONS FOR WATER USE PERMITS**

Ground Water Management Areas, Oahu & Molokai

Publish in issues of October 5 & 12, 1992
(see attached notice)

Price List No. PL 92-66

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**GOODS/SERVICES RECEIVED IN GOOD ORDER AND CONDITION BY**

**FOR DEPARTMENT USE ONLY**

**REQUISITION NO**

00136813

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**REQUISITIONER**

A. Furuchichi

**ATTORNEYS SIGNATURE**

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**VOUCHER AUTHENTICATED BY**

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JOHN WAHEE
GOVERNOR OF HAWAII

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
P. O. BOX 621
HONOLULU, HAWAII 96809

SEP 30 1992

DPW, USASCH
APVG-GWC-T
Fort Shafter, HI 96585

Attn: Mr. C. Takashige

Dear Sirs:

Application for a Water Use Permit
Wahiawa Ground Water Management Area, Oahu

We acknowledge receipt, on September 1, 1992, of your completed water use permit applications for the Schofield Shaft Wells (Well No. 2901-02, 03, 04, & 10). You can expect your application to be processed within ninety (90) days from the date of receipt unless there are objections to your application.

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 the near future. 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 Ed Sakoda at 587-0225.

Sincerely,

RAE M. LOUI
Deputy Director

RH:ko
Colonel Charles R. Wilson  
Director of Public Works  
U.S. Department of the Army  
Fort Shafter, HI 96856-5000

Dear Colonel Wilson:

Attorney General Review  
of Water Use Permits for Schofield Shaft

As stated in our September 18, 1989 letter to you, your water use permit application for an additional 0.245 mgd for the Schofield Shaft was approved by the Commission on July 19, 1989, subject to Attorney General review. We assume this is the application to which you were referring. We have no record of a similar application submitted in 1991.

Presently, your water use permit form (for yours and all others) is still under review by the Attorney General’s office. There are no problems with your permit and it is being treated as fully approved by the Commission.

If you have any further questions, please contact Mr. William Tam of the Attorney General’s Office at 587-2982. In the meantime, your permit is considered fully approved.

Sincerely,

RAE M. LOUI  
Deputy Director

RH:ko
NUMBER OF PAGES TRANSMITTED, INCLUDING THIS TRANSMITTAL: 2

If you do not receive any of the pages, please call 587-2982.

WARNING:
This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged or confidential. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original to us at the above address via the U.S. postal service. Thank you.
September 16, 1992

Mr. Charles Y. Wilson
Colonel, U.S. Army
Director of Public Works
US Department of the Army
Fort Shafter, HI 96856-5000

Dear Colonel Wilson:

Attorney General Review of Water Use Permit for Schofield Shaft

As stated in our September 19, 1999 letter to you, your water use permit application for additional 0.348 mgd for the Schofield Shaft was approved by the Commission on July 19, 1999 subject to Attorney General review. We assume this is the application you are referring to as we have no record of a similar application submitted in 1991.

Presently, your permit is still under review by the Attorney General's office. There are no problems with your permit and it is being treated as fully approved by the Commission.

If you have any further concerns we suggest that you call Mr. Walter Tan of the Attorney General's Office. In the meantime, your permit will be considered fully approved.

If you have any questions, please contact Ed Sakoda at 587-0285.

Sincerely,

RAN M. LOUI
Deputy Director

RH
FACSIMILE TRANSMITTAL PAGE

Please deliver the following pages to:

Name: Brie Tam
Company: AG OFFICE
From: Roy Hasey
Date: 7/12/92
Time: 3:10 P

Message: Any comments?

Total number of pages (including Transmittal Page): 5

If you do not receive all of the pages legibly, please call back: (608) 587-0219

Sending Facsimile Number: (608) 587-0219
Receiving Facsimile Number: (608) 587-2499

TRANSMISSION REPORT

THIS DOCUMENT (REDUCED SAMPLE ABOVE) WAS SENT

** COUNT **
# 3

*** SEND ***

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<th>START TIME</th>
<th>DURATION</th>
<th>#PAGES</th>
<th>COMMENT</th>
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<td>3:07PM</td>
<td>3</td>
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</tr>
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TOTAL 0:01'38" 3 XEROX TELECOPIER 7020
FACSIMILE TRANSMITTAL PAGE

Please deliver the following pages to:

Name: Bill Tam
Company: AG OFFICE
From: Roy Harvey
Date: 9/14/92 Time: 3:10 P.
Message: Any comments?

Total number of pages (including Transmittal Page): 3

* * * * * * * *

If you do not receive all of the pages legibly, please call back: (808) 587-0214

Sending Facsimile Number: (808) 587-0219
Receiving Facsimile Number: (808) 587-2999
September 16, 1992

Mr. Charles R. Wilson
Colonel, U.S. Army
Director of Public Works
US Department of the Army
Fort Shafter, HI 96856-5000

Dear Colonel Wilson:

Attorney General Review of Water Use Permits for Schofield Shaft

As stated in our September 18, 1989 letter to you, your water use permit application for additional 0.245 mgd for the Schofield Shaft were approved by the Commission on July 19, 1989, subject to Attorney General review. We assume this is the application you are referring to as we have no record of a similar application submitted in 1991.

Presently, your permit is still under review by the Attorney General's office. There are no problems with your permit and it is being treated as fully approved by the Commission.

If you have any further concerns we suggest that you call Mr. Bill Tam of the Attorney General's Office. In the meantime, your permit will be considered fully approved.

If you have any questions, please contact Ed Sakoda at 587-

Sincerely,

RAE M. LOUI
Deputy Director

RH
D. The Contractor shall protect from damage all surrounding structures, trees, plants, grass, walks, pavements, etc. Any damage will be repaired or replaced by the Contractor to the satisfaction of the Engineer.

1.06 - PERMITS: The Contractor shall obtain and pay for necessary permits prior to the commencement of work.

1.07 - CONSTRUCTION LINES, LEVELS AND GRADES

A. The Contractor shall verify all lines, levels and elevations indicated on the drawings before any clearing, excavation or construction begins. Any discrepancy shall be immediately brought to the attention of the Engineer and any changes shall be made in accordance with his instruction. The Contractor shall not be entitled to extra payment if he fails to report the discrepancies before proceeding with any work whether within the area affected or not.

B. All lines and grades shall be verified and established by a Surveyor or Civil Engineer licensed in the State of Hawaii.

C. The laying out of base lines, establishment of grades and staking out the entire work shall be done by a licensed Surveyor or a licensed Civil Engineer, approved by the Engineer. He shall be solely responsible for their accuracy. Erect and maintain substantial batter boards showing construction lines and levels.

1.08 - CLEANUP: Clean up and remove all debris accumulated from construction operations from time to time, when as directed by the Engineer. Upon completion of the construction work and before final acceptance of work, remove all surplus materials, equipment, etc., and leave entire jobsite clean and neat.

PART II - PRODUCTS

2.01 - MATERIALS:

A. Yard fill materials shall be borrow soils of select materials non-expansive, generally less than 6-in. maximum size, with more than 30% fines (less than 1/4 in.) and a plasticity index generally less than 20.

B. Structural fill materials below concrete floor slabs, footing and walkways with allowance for depth of cushion fill shall be select material, well-graded granular material about 3-in. maximum size with a plasticity index of less than 20 and with about 30% passing the No. 4 sieve or "aa" clinker.

C. Cushion fill material shall be #3, B fines, well graded gravel less than 3/4 in. and greater than 1/4-in. in size.
Directorate of Public Works

Mr. Manabu Tagomori
Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Dear Mr. Tagomori:

Enclosed is a copy of an application for additional groundwater use submitted in 1991 and a follow-up letter confirming approval pending review by the attorney general. To date we have not received a response in writing from your office.

Please contact us if there are problems with our application or if the Army is required to submit additional documents or information.

Your response would be greatly appreciated for the Army to continue planning of future projects on base.

If you have any questions on this matter, please feel free to call Mr. Chris Takashige at 655-6383.

Sincerely,

Charles R. Wilson
Colonel, U.S. Army
Director of Public Works

Enclosure
Dear Mr. Loui:

Enclosed is the Department of Army's water use permit application for Oahu Sugar Co's cutback in the Pearl Harbor Ground Water Management area (PHGWMA).

In addition, to our permit application USGS maps, Tax Map Key numbers and comments are enclosed for your use.

Sincerely,

Charles R. Wilson
Colonel, U.S. Army
Director of Public Works

Enclosures
Director of Facilities Engineering  
U.S. Army Support Command, Hawaii  
A.P.O. Fort Shafter  
Honolulu, HI 96858-5000  

Dear Sir:  

Pearl Harbor Ground Water Management Area  
Water Use Permit Applications  

On January 16, 1992, the Commission on Water Resource Management (Commission) approved a 9.76 mgd cutback of Oahu Sugar Co.'s aggregate water use permit allocation. This total cutback may be available for use in the Pearl Harbor Ground Management Area (PHGWMA).

We request that all those interested in obtaining a ground water use permit to meet their projected potable demands file an application by September 1, 1992. Potable ground water demands should be limited to needs that will be active by 1996.

All applications filed on or prior to September 1, 1992, will be considered received by the Commission on that date. After September 1, 1992, applicants can expect between 90 to 180 days for Commission action on their individual applications. It is anticipated that once a ground water use permit is granted, approval of the subsequent well construction and pump installation permits may become ministerial, requiring only the Chairperson's signature.

New water use permit application forms are available upon request from our office. If you have any questions, please contact Roy Hardy at 587-0225.

Sincerely,  

RAE M. LOUI  
Deputy Director  

RH:ko
APPLICATION FOR WATER USE PERMIT

State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96804. 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 587-2025.

1. (a) APPLICANT
   Firm/Name: DPW, USASCH
   Contact Person: C. Takashige
   Address: APVG-GWC-T
   Fort Shafter, HI 96858-5000

   (b) LANDOWNER
   Firm/Name: Dept of Army
   Contact Person: C. Takashige
   Address: APVG-GWC-T
   Fort Shafter, HI 96858-5000

2. WATER MANAGEMENT AREA: PHGMA
   ISLAND: Oahu

3. (a) EXISTING SOURCE NAME AND STATE NUMBER:
   Schofield Shaft, 2901-02 to 04, 10
   (well or stream diversion name/number)

   (b) PROPOSED (NEW) SOURCE NAME: NA

4. SOURCE LOCATION: Address Schofield Deepwell Water Treatment PL
   Tax Map Key: 6-6-01-1
   (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  X Basal
   Dike-confined  Parished  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 Various, Schofield, Hawaii
   Tax Map Key: 7-6-01-1 (SB)
   (b) Land Use District (check one): Urban  Agriculture  Conservation  Rural
   (c) County Zoning (describe) "Proposed Water Use Permit 7-6-01-1 (ER)"

8. QUANTITY OF WATER REQUESTED: Additional 1.056 million gallons per day

9. METHOD OF MEASUREMENT:
   Flowmeter  Open-pipe  Weir  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): See 15. Remarks for listing

13. TOTAL ACRES PROPOSED FOR IRRIGATION AND TYPE OF CROP:
    NA  Golf course  7-20-01-1
    (acre)  (crop)

14. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION:
    24 hrs per day
    (indicate hours of operation)

15. APPLICANT MUST BRIEFLY DESCRIBE FOLLOWING POTENTIAL RESTRICTIONS ON USE:
    (a) Impact on Sustainable yield (?):  None
    (b) Permanent or interim
    Instream Flow Standards affected (?):  None
    Hawaiian Home Land uses affected (?):  None
    Other existing legal uses affected (?):  None
    Other:

16. REMARKS, EXPLANATIONS:

   (If more space is needed, continue on back side)

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 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): DPW, USASCH
Signature: ____________________________
Date: 8-14-92

Landowner (print): Dept of Army
Signature: ____________________________
Date: ____________________________

For Official Use Only
Date Received: ____________________________
Hydrologic Unit No. 30501
Notice Dates:
Public  Mayor  BWS  Mail List  Bulletin  Public Hearing

Diverion Works No. 2901 - 02 to 04, 10
State Well No. 7-6-01-1 (SB)
REMARKS, EXPLANATIONS (cont'd): The following new project list and the estimated water requirements are projected for completion on or before 1996.

<table>
<thead>
<tr>
<th>Project</th>
<th>Area in SF</th>
<th>Est H2O Use (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Range General Purpose Warehouse</td>
<td>120,000</td>
<td>1000</td>
</tr>
<tr>
<td>Leilehua Golf Course Irrigation</td>
<td>--</td>
<td>450,000</td>
</tr>
<tr>
<td>Non TOE Maintenance Facility</td>
<td>30,000</td>
<td>10,000</td>
</tr>
<tr>
<td>DOL Administration Facility</td>
<td>24,000</td>
<td>1000</td>
</tr>
<tr>
<td>Schofield Branch Exchange</td>
<td>7,250</td>
<td>5,000</td>
</tr>
<tr>
<td>MOUT Firing Range Warehouse</td>
<td>4,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Multipurpose Firing Range</td>
<td>1480</td>
<td>1,000</td>
</tr>
<tr>
<td>Education Center/Library</td>
<td>64,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Gas Station and Branch Exchange</td>
<td>5,800</td>
<td>5,000</td>
</tr>
<tr>
<td>102 Family Housing Units at Leader</td>
<td>--</td>
<td>40,000</td>
</tr>
<tr>
<td>Kalakaua Golf Course Irrigation</td>
<td>--</td>
<td>450,000</td>
</tr>
<tr>
<td>Transient Lodging Facility</td>
<td>(184 rooms)</td>
<td>35,000</td>
</tr>
<tr>
<td>100 Family Hsg Units at Area A</td>
<td>--</td>
<td>40,000</td>
</tr>
<tr>
<td>Toyland</td>
<td>20,000</td>
<td>1,000</td>
</tr>
<tr>
<td>CIDC Field Operations Facility</td>
<td>13,000</td>
<td>1,000</td>
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<tr>
<td>VA Administration Facility</td>
<td>36,000</td>
<td>1,000</td>
</tr>
<tr>
<td>Wheeler Airfield Child Dev Ctr</td>
<td>(99 child occupancy)</td>
<td>3,000</td>
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Total = 1.056 MGD
SCHOFIELD SHAFT
(2901-02 to 04,10)

ISLAND OF OAHU

PROJECT AREA

ISLAND OF OAHU
<table>
<thead>
<tr>
<th>TO:</th>
<th>INIT:</th>
<th>PLEASE:</th>
<th>REMARKS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>See Me</td>
<td>We approved transfer of WRP on 2/13/92 w/o an original application, which is required in code-17MC-57(a). Suggest we send them letter and application.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Call</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Review &amp; Comment</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td>Take Action</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Investigate &amp; Report</td>
<td></td>
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<td></td>
<td></td>
<td>Draft Reply</td>
<td></td>
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<td></td>
<td></td>
<td>Acknowledge Receipt</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Type Draft</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>Type Final</td>
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</tr>
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<td>Xerox copies</td>
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FOR YOUR:

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<tbody>
<tr>
<td></td>
<td>Signature</td>
</tr>
<tr>
<td></td>
<td>Information</td>
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</table>

Do you think it's worth the trouble to ask them to submit application, etc.? Not really worth it but it's what the law requires.
<table>
<thead>
<tr>
<th>TO:</th>
<th>INIT:</th>
<th>PLEASE:</th>
<th>REMARKS:</th>
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<td></td>
<td>___ See Me</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>___ Call</td>
<td></td>
</tr>
<tr>
<td>M. TAGOMORI</td>
<td>L. Nanbu</td>
<td>___ Review &amp; Comment</td>
<td></td>
</tr>
<tr>
<td>L. Chang</td>
<td>G. Akita</td>
<td>___ Take Action</td>
<td></td>
</tr>
<tr>
<td>E. Lau</td>
<td>A. Monden</td>
<td>___ Investigate &amp; Report</td>
<td></td>
</tr>
<tr>
<td>H. Young</td>
<td>T. Kam</td>
<td>___ Draft Reply</td>
<td></td>
</tr>
<tr>
<td>G. Miyashiro</td>
<td>D. Lee</td>
<td>___ Acknowledge Receipt</td>
<td></td>
</tr>
</tbody>
</table>

FOR YOUR:

R. LOUI  ___ Approval
S. Kokubun  ___ Signature

[Handwritten remarks]
File. Please check if you changed anything.

Put in Army WWP.

Early July 74.
Directorate of Public Works

Mr. Manabu Tagomori
Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Dear Mr. Tagomori:

Enclosed is a copy of an application for additional groundwater use submitted in 1991 and a follow-up letter confirming approval pending review by the attorney general. To date we have not received a response in writing from your office.

Please contact us if there are problems with our application or if the Army is required to submit additional documents or information.

Your response would be greatly appreciated for the Army to continue planning of future projects on base.

If you have any questions on this matter, please feel free to call Mr. Chris Takashige at 655-6383.

Sincerely,

Charles R. Wilson
Colonel, U.S. Army
Director of Public Works

Enclosure
APPLICATION FOR WATER USE PERMIT

GROUNDWATER or SURFACE WATER

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96808. Application must be accompanied by a non-refundable filing fee of $125.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 518-7442. Hydrology/Geology Section for assistance.

1. WATER MANAGEMENT AREA

PEARL HARBOR

2. (a) WELL/DIVERSION OWNER:
   Firm Name: U.S. Army
   Contact Person: George F. Keys
   Address: DFE, USACH, PT SHAPER, HI 96858-5000
   Phone: 656-1042

(b) LANDOWNER: (same as 2(a))
   Firm Name
   Contact Person
   Address
   Phone

3. SOURCE TYPE:
   [ ] Spring
   [ ] Dike-confined
   [ ] Stream
   [ ] Perched
   [ ] Basal
   [ ] Caprock

4. SOURCE NAME AND NUMBER:
   SCHOFIELD DEEPWELL (EXISTING SOURCE)
   (Well or stream diversion name/number)

5. SOURCE LOCATION:
   Island: OAHU
   Tax Map Key: 7-6-01-1
   Address
   (Attach a USGS map (scale 1"=2000") and property tax map showing source location referenced to established property boundaries.)

6. LOCATION OF PROPOSED WATER USE (if different from #5)
   7-7-01-1
   (Indicate location of water use on same map showing source location.)

7. QUANTITY OF WATER REQUESTED: 0.245 M gallons per day

8. QUALITY OF WATER REQUESTED (check appropriate box)
   [ ] Fresh
   [ ] Brackish
   [ ] Salt
   [ ] Potable
   [ ] Non-Potable

   PROPOSED USE
   [ ] Municipal (including hotels, stores, etc)
   [ ] Domestic (individual, noncommercial water syst.)
   [ ] Irrigation (specify)
   [ ] Military
   [ ] Industrial
   [ ] Other (specify)

9. NO. OF RESIDENTIAL OR COMMERCIAL UNITS TO BE SERVED (specify): 500 UNITS

10. TOTAL ACRES PROPOSED FOR IRRIGATION
    Type of Crop

11. REMARKS, EXPLANATIONS
    (If more space is needed, continue on back side)

12. (print) U.S. ARMY
    Landowner (print) U.S. ARMY

13. Date

14. Official Use Only:
    Received
    Hydrologic Unit
    Diversion Works No.
    Accepted
    State well No.

15. Landowner (print)
    Signature
    Date
Charles R. Wilson  
Colonel, U.S. Army  
Director of Facilities Engineering  
U.S. Army Support Command Hawaii  
Fort Shafter, Hawaii 96858-5000

Dear Colonel Wilson:

We acknowledge your request to transfer the Army's water use allocation of 0.245 mgd from the planned housing project at Waikakalaua Gulch to a new project at two sites within Schofield Barracks.

By this letter your request is approved. Your total allocation of 5.700 mgd from the Schofield Shaft (Well Nos. 2901-02 to 04 and 10), for military-residential use, remains the same.

Call Manabu Tagomori, Deputy Director, at 587-0214 if you have any questions.

Very truly yours,

William W. Paty

[Signature]
Ed

DATE: 1-29-92

TO: 

INITIAL: 

E. SAKODA
F. Ching
W. Rozeboom
P. Haraguchi
G. Bauer
N. Fujii
A. Okamura
G. AKITA
L. Nanbu
G. MATSUMOTO
E. LAU
L. CHANG
Y. SHIROMA
M. TAGOMORI
S. Kokubun

PLEASE: 

See Me
Call
Review & Comment
Take Action
Investigate & Report
Draft Reply
Acknowledge Receipt
Type Draft
Type Final cc:
Xerox copies

FOR YOUR:

Approval
Signature
Information

OK — I'll draft a reply saying "no problem." Ed

REMARKS:
Manabu — received a call from George Keynes re: this letter. They did not get a reply. I don't recall seeing this. If
Directorate of Facilities Engineering

Mr. Manabu Tagomori
Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Dear Mr. Tagomori,

Your letter of September 18, 1989 informed us that our water use permit for the Schofield Barracks Shaft was approved, subject to review by the Attorney General. We had applied for an additional allocation of 0.245 mgd from our existing well system to supply planned housing project at Waikakalau Gulch. This project has now been set aside in favor of a new project at two sites within Schofield Barracks.

We hereby apply for a transfer of the original allocation to this new project which is scheduled for FY 92.

If you have any questions on this matter, please feel free to call Mr. George Keys at 655-6383.

Sincerely,

ORIGINAL SIGNED BY:

MAURICE M. FUJIMOTO
Deputy Director
Charles R. Wilson
Colonel, U.S. Army
Director of Facilities Engineering
TO: Ed S.

DATE: 1/23/92 TIME: 3:00

WHILE YOU WERE OUT

George Keys

Ph. 655-6383

<table>
<thead>
<tr>
<th>TELEPHONED</th>
<th>PLEASE CALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALLED TO SEE YOU</td>
<td>WILL CALL AGAIN</td>
</tr>
<tr>
<td>WANTS TO SEE YOU</td>
<td>URGENT</td>
</tr>
</tbody>
</table>

RETURNED YOUR CALL

Message: Water use permits

Operator
Directorate of Facilities Engineering

Mr. Manabu Tagomori
Deputy Director
State of Hawaii
Department of Land and Natural Resources
Commission on Water Resource Management
P.O. Box 621
Honolulu, HI 96809

Dear Mr. Tagomori,

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We hereby apply for a transfer of the original allocation to this new project which is scheduled for FY 92.

If you have any questions on this matter, please feel free to call Mr. George Keys at 655-6383.

Sincerely,

ORIGINALLY SIGNED BY:

MAURICE M. FUJIMOTO
Deputy Director

Charles R. Wilson
Colonel, U.S. Army
Director of Facilities Engineering
September 18, 1989

U.S. Army
DFE, USASCH
Fort Shafter, Hawaii 96858-5000

Gentlemen:

On July 19, 1989, the Commission on Water Resource Management approved your request for a water use permit for the Schofield Shaft. A condition of the approval was that the permit be reviewed by the attorney general.

The permit is presently being reviewed by the attorney general. We will send you the permit as soon as the review is completed.

Thank you for your patience.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:ko
cc: Attorney General
65.7 and another reduction in 1991. Mr. Fujimura asked if staff is making an assumption that we have a hard number by issuing permits up to the sustainable yield. Mr. Sakoda said that they are issuing on that basis, subject to review in 1990.

Unanimously approved with the addition that the language of the permit be reviewed by the Attorney General's office and that the Commission make a finding that the permit meets the terms and requirements of Section 174C-49 (Nakata/Cox)

ITEM 5 HALEKUA DEVELOPMENT APPLICATION FOR WATER USE PERMIT, ROYAL KUNIA WELL, KUNIA, OAHU

Unanimously approved with the addition that the language of the permit be reviewed by the Attorney General's office and that the Commission make a finding that the permit meets the terms and requirements of Section 174C-49 (Cox/Nakata).

ITEM 6 UNITED STATES ARMY APPLICATION FOR WATER USE PERMIT, ROYAL KUNIA WELL, KUNIA, OAHU

Mr. Cox mentioned that when the Schofield High Level permit was approved, the "Action Requested" was called "military use" but for this submittal it is called "military-residential use", and asked for a reason in the different terminology and suggested it should be consistent by using just one phrase. Mr. Sakoda said the reason was to emphasize that fact that it is a military applicant. Mr. Cox also asked if the unused Board of Water Supply Well, Wahiawa 2, was going to be used. Mr. Sakoda said they have a water use permit and he believes they are going to use it. Mr. Nakata asked if that was part of the 12 million authorized use. Yes, replied Mr. Sakoda.

Unanimously approved with the addition that the language of the permit be reviewed by the Attorney General's office and that the Commission make a finding that the permit meets the terms and requirements of Section 174C-49 (Nakata/Cox).

ITEM 7 DAIRY-COMPANY, INC. APPLICATION FOR WATER USE PERMIT, DAIRY-COMPANY WELL, KIPAPA GULCH, OAHU

Mr. Cox had a question regarding the 100,000 gallons a day for "domestic, agricultural and industrial use" being requested and asked if staff knew how the water was going to be used, since it such a small amount. Mr. Sakoda replied there are 12 single family homes which is a small use. Mr. Cox then asked if that area was zoned for industrial. Mr. Sakoda said he did not know but added that the applicant was here to answer any questions. Mr. Bill Thompson representing the applicant gave a brief review of the background of reasons for the submittal. He added that the development plan change is being submitted but the County had not approved it yet. Mr. Cox asked Mr. Tam if the applicant does not have an approved land use plan for the other uses, could the Commission approve the use requested. Mr. Tam replied that until the plan is approved and is consistent with the County's Land Use Plans and Policies, they would not be able to make the determination.

Dr. Chun asked if the County had indicated to staff that it was inconsistent. No, replied Mr. Sakoda. In reply to Dr. Chun's question on what the existing land use was, Mr. Thompson said that it is Ag 1 and that the existing water use is about a 100,000 gallons a day. Mr. Cox said that the
Chairperson and Members
Commission on Water Resource Management
State of Hawaii
Honolulu, Hawaii

Gentlemen:

United States Army
Application for Water Use Permit
Schofield Shaft, Schofield Barracks, Oahu

Applicant: U.S. Army
DFE, USASCH
Fort Shafter, Hawaii 96858-5000

Action Requested: Approval of a water use permit to use an additional 0.245 million gallons per day (mgd) from existing Schofield Shaft (2901-02 to 04, 10) for military-residential use.

Place of Use: Water will be used to supply a proposed 500-unit military-residential development on the military reservation near the confluence of Waikake and Waikakalaua Streams, Tax Map Key: 7-7-01:1.

Well Location: Schofield Shaft is located on Kamehameha Highway across the entrance of Wheeler Air Force Base, Tax Map Key: 7-6-01:1 (see attached map). The Shaft taps the Schofield high-level aquifer.

Impact on Surrounding Wells: Other wells in the area include the Honolulu Board of Water Supply’s (BWS) Wahiawa Wells, located 0.3 mile north of the Shaft, and the BWS Wahiawa II source located 0.7 mile northwest of the Shaft. The Wahiawa II source has a water use permit for 1.0 mgd but the station is not yet in operation.

Water Availability: The status of water use in the Schofield high-level aquifer of the Pearl Harbor Water Management Area is as follows:

| Sustainable Yield | 13 mgd* |
| Water Use Permits Issued | 15 mgd |
| Water Presently Available for Allocation | 1 mgd |

*Subject to Commission review by 1995

Public Notice: In accordance with DLNR Administrative Rules, a public notice was published in the Star Bulletin on June 9 and June 16, 1989. In addition, copies of the public notice were sent to the Mayor’s office, the Department of Health, the Navy, and Oahu Sugar Company. Written objections to the proposed permit were to be submitted to the Commission by June 30, 1989. No objections have been filed.

Approved by Commission on
Water Resource Management
at the meeting held on

with Condition
RECOMMENDATION

That the Commission approve the issuance of a conditional water use permit to the U.S. Army for an additional 0.245 mgd, for a total of 5.700 mgd of potable water for military use.

The approval shall be subject to the requirements of other applicable laws, rules, and ordinances, and the following conditions:

(1) The permit shall be subject to the Commission's sustainable yield review by 1995.

(2) The Commission may reduce the amount initially granted the permittee should long-term pumpage from the Shaft interfere with existing legal uses in the area.

(3) The development of the military-residential units shall commence within 24 months from the date of permit issuance unless otherwise authorized by the Commission.

Respectfully submitted,

MANABU TAGOMORI
Deputy Director

APPROVAL FOR SUBMITTAL:

WILLIAM W. PATY, Chairperson
July 11, 1989

U.S. Army
DFE, USASCH
Fort Shafter, Hawaii 96858-5000

Gentlemen:

The Commission on Water Resource Management will be acting on your permit application for Schofield Shaft (2901-02 to 04, 10) at their regularly scheduled meeting on July 19, 1989, at 2:00 p.m. in Board Room 132, 1151 Punchbowl Street, Honolulu.

Your application will be included on the agenda as Item 6 (attached).

You or your representative are invited to attend the meeting.

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

ES:bm
Enc.
JUN 15 1989

REF: UL-KC

Honorable John C. Lewin, M.D.
Director of Health
Department of Health
1250 Punchbowl Street
Honolulu, Hawaii 96813

Dear Dr. Lewin:

Public Notice for Water Use: Permit Applications
Pearl Harbor Water Management Area, Oahu

Enclosed for your information is a public notice which will be published in the Star Bulletin.

If you have any comments, please submit them to us by June 30, 1989.

Very truly yours,

WILLIAM W. PATY

Enc.
Mr. Kazu Hayashida
Manager and Chief Engineer
Board of Water Supply
City and County of Honolulu
630 South Beretania Street
Honolulu, Hawaii 96843

Dear Mr. Hayashida:

Public Notice for Water Use Permit Applications
Pearl Harbor 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 public
notice which will be published in the Star Bulletin.

If you have any comments, please submit them to us by June 30, 1989.

Very truly yours,

WILLIAM W. PATY

Enc.
Honorable Frank F. Fasi
Mayor, City and County of Honolulu
City Hall.
Honolulu, Hawaii 96813

Dear Mayor Fasi:

Public Notice for Water Use Permit Applications
Pearl Harbor 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 public notice which will be published in the Star Bulletin.

If you have any comments, please submit them to us by June 30, 1989.

Very truly yours,

WILLIAM W. PATY

Enc.
June 13, 1989

Mr. William D. Balfour, Jr.
President and General Manager
Oahu Sugar Co., Inc.
P.O. Box "0"
Waipahu, Hawaii 96797

Dear Mr. Balfour:

Public Notice for Water Use Permit Applications
Pearl Harbor Water Management Area, Oahu

Enclosed for your information is a public notice which will be published in the Star Bulletin.

If you have any comments, please submit them to us by June 30, 1989.

Sincerely,

[Signature]

HARABU TACCNO
Deputy Director

ES:ko
Inc.
June 13, 1989

Department of the Navy
Pacific Division
Naval Facilities Engineering Command
(Makalapa, HI)
Pearl Harbor, Hawaii 96860-7300

Gentlemen:

Public Notice for Water Use Permit Applications
Pearl Harbor Water Management Area, Oahu

Enclosed for your information is a public notice which will be published in the Star Bulletin.

If you have any comments, please submit them to us by June 30, 1989.

Sincerely,

MANABU TAGOMORI
Deputy Director

ES:ko
Enc.
PUBLIC NOTICE

Applications for Water Use Permits
Pearl Harbor Water Management Area, Oahu

(A) JOINT APPLICANTS: Halekua Development Corp.
2024 N. King Street, Honolulu, Hawaii 96819

Honolulu Board of Water Supply
630 S. Beretania Street, Honolulu, Hawaii 96843

Date Application Received: March 2, 1989
Source of Water Supply: Koolau basal aquifer, proposed well 2402-03
Location of Well: North of Waipahu along Kunia Road, Tax Map Key: 9-4-02:17
Quantity Applied for: 1.45 million gallons per day
Proposed Water Use: Municipal Use
Place of Water Use: Water will be used to supply developments for Royal Kunia.

(B) APPLICANT: Dairy-Co., Inc., Yuichi Ige, President
1638 Kam IV Road, Honolulu, Hawaii 96819

Date Application Received: October 5, 1988
Source of Water Supply: Koolau basal aquifer, existing well 2600-02
Location of Well: Near Kamehameha Highway in Kipapa Guich, Tax Map Key: 9-4-05:52
Quantity Applied for: 0.1 million gallons per day
Proposed Water Use: Domestic, Agricultural and Industrial Use
Place of Water Use: Water will be used to supply twelve existing single-family homes and two agricultural business enterprises located on the property, and a poultry farm on an adjoining lot. In addition, the requested use would be for a proposed light industrial park.

(C) APPLICANT: Honolulu Board of Water Supply
630 South Beretania Street, Honolulu, Hawaii 96843

Date Application Received: March 17, 1989
Source of Water Supply: Koolau basal aquifer, existing Mililani Wells I (2800-01 to 04), Mililani Wells II (2859-01,02), Mililani Wells III (2600-01,02)

Location of Wells: In Mililani, Tax Map Keys: 9-5-02:1 (Mililani I), 9-5-02:13 (Mililani II), 9-4-05:20 (Mililani III)

Quantity Applied for: 1.45 million gallons per day

Proposed Water Use: Municipal Use

Place of Water Use: Water will be used to supply developments in Mililani.

(D) APPLICANT: Honolulu Board of Water Supply
630 South Beretania Street, Honolulu, Hawaii 96843

Date Application Received: March 1, 1988 (Honouliuli Well 3)
December 19, 1988 (Honouliuli Well 4)

Source of Water Supply: Waianae basal aquifer, existing wells 2303-03 and 2303-04

Location of Wells: In Honouliuli Gulch, Tax Map Key: 9-2-01:1

Quantity Applied for: 1.12 million gallons per day from each well

Proposed Water Use: Municipal Use

Place of Water Use: Water will be used to supply developments in the Ewa area of Oahu.

(E) APPLICANT: U.S. Army
DFE, USASCH, Ft. Shafter, Hawaii 96858-5000

Date Application Received: March 20, 1989

Source of Water Supply: Schofield High-Level aquifer, existing Schofield Shaft

Location of Well: Near II-3 Freeway in Schofield, Tax Map Key: 7-6-01:1

Quantity Applied for: 0.245 million gallons per day

Proposed Water Use: Military Use

Place of Water Use: Water will be used to supply a new 500-unit residential development.
Written objections or comments on the applications for water use may be filed by any person who has property interest in any land within the hydrologic unit of the source of water supply or who will be directly and immediately affected by the proposed water use. 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 June 30, 1989, to the Division of Water Resource Management, P.O. Box 373, Honolulu, Hawaii 96809.

State of Hawaii
Commission on Water Resource Management

WILLIAM W. PATY, Chairperson

Dated: June 7, 1989

April 13, 1989

Lieutenant Colonel John L. Notes II
Director of Facilities Engineering
Department of the Army
Headquarters, U.S. Army Support Command Hawaii
Fort Shafter, Hawaii 96858-5000

Dear Colonel Notes:

This is to acknowledge receipt of your letter of March 16, 1989, and accompanying application for a water use permit for an additional allocation of 0.245 million gallons per day from the Schofield Shaft.

The Commission on Water Resource Management is presently in the process of revising the sustainable yields and water allocations in the Pearl Harbor Water Management Area. Until the revision is completed, we are deferring the issuance of water use permits.

If you have any questions, please contact Dan Lum at 548-7643.

Sincerely,

[Signature]

MANABU TAGOMORI
Deputy Director

ES:kc
DIVISION OF WATER RESOURCE MANAGEMENT

FROM: [Signature]

DATE: 3. Y

FILE IN: ______ _

TO: INITIAL:

PLEASE:

- See Me
- Take Action By_____
- Route to Your Branch
- Review & Comment
- Draft Reply_____
- Acknowledge Receipt
- Xerox copies
- File
- Mail
- For Information

REMARKS:

[Signature]

PLEASE:

- S. Kokubun
- D. Hamada
- L. Nanbu
- F. Ching

1. How far into the future?

Award contract @ April 1990
Est. completion @ April 1993

Geysir Keys 5/14/89
Directorate of Facilities Engineering

State Department of Land and Natural Resources
ATTN: Division of Water and Land Development
P. O. Box 373
Honolulu, Hawaii 96809

Gentlemen:

Enclosed is a completed application and location map for an increased allocation of water withdrawal from our existing Schofield Wells. This application is based on a determination through engineering estimates that future planned construction will cause us to exceed our present allowance.

We await your reply and thank you for your consideration.

_request reply by March 31, 1989._

If you have any questions, please call Mr. George Keys at 656-1042.

Sincerely,

[Signature]
John L. Motes II
Lieutenant Colonel, U.S. Army
Director of Facilities Engineering

Enclosure
APPLICATION FOR WATER USE PERMIT

GROUNDWATER or SURFACE WATER

INSTRUCTIONS: Please print or type and send completed application with attachments to the Division of Water and Land Development, P.O. Box 373, Honolulu, Hawaii 96809. Application must be accompanied by a non-refundable filing fee of $215.00 payable to the Department of Land and Natural Resources. (Filing fee waived for government agencies.) If necessary, phone 548-7841. Hydrology/Geology Section for assistance.

1. WATER MANAGEMENT AREA PEARL HARBOR

2. (a) WELL/DIVERSION OWNER:
   Firm Name U.S. Army
   Contact Person George F. Keys
   Address DFE, USAOCH, PT SHAPTER, HI 96858-5000
   Phone 656-1042

(b) LANDOWNER: (same as 2(a))
   Firm Name
   Contact Person
   Address
   Phone

3. SOURCE TYPE:  
   ☐ Spring  ☐ Dike-confined  ☐ Stream  ☐ Basal
   ☐ Perched  ☐ Caprock

4. SOURCE NAME AND NUMBER
   SCHOFIELD DEEPWELL (EXISTING SOURCE)
   (well or stream diversion name/number)

5. SOURCE LOCATION:
   Island OAHU
   Tax Map Key 7-6-01-1
   Address
   (Attach a USGS map (scale 1"=2000') and property tax map showing source location referenced to established property boundaries.)

6. LOCATION OF PROPOSED WATER USE (if different from #5) 7-7-01-1
   (Indicate location of water use on same map showing source location.)

7. QUANTITY OF WATER REQUESTED 0.245 M gallons per day

8. QUALITY OF WATER REQUESTED (check appropriate box)
   ☐ Fresh  ☐ Brackish  ☐ Salt  ☐ Potable  ☐ Non-Potable

9. PROPOSED USE
   ☐ Municipal (including hotels, stores, etc)  ☐ Military
   ☐ Domestic (individual, noncommercial water sys.)  ☐ Industrial
   ☐ Irrigation (specify)  ☐ Other (specify)

10. DESCRIBE ANY POTENTIAL RESTRICTIONS ON USE (i.e., instream standards, seasonal variations)  NONE

11. PROPOSED TIME OF WATER WITHDRAWAL OR DIVERSION CONTINUOUS
    (Indicate hours of operation)

12. PROPOSED METHOD OF TAKING THE WATER
    ☐ Artesian Flow  ☐ Diverted Flow  ☐ Centrifugal Pump
    ☐ Submersible Pump  ☐ Vertical Turbine Pump

13. NO. OF RESIDENTIAL OR COMMERCIAL UNITS TO BE SERVED (specify) RES - 500 UNITS

14. TOTAL ACRES PROPOSED FOR IRRIGATION  -  Type of Crop

15. REMARKS, EXPLANATIONS
    (If more space is needed, continue on back side)

Owner (print) U.S. ARMY
Landowner (print) U.S. ARMY

Signature  
Date

For Official Use Only:
Date Received  
Hydrologic Unit  
Date Accepted

Date Accepted  
Diversion Works No.  
State Well No. 2901-0240410
October 3, 1988

MEMORANDUM FOR THE RECORD

FROM: Ed Sakoda

SUBJECT: Field Trip to Schofield Shaft (2901-07)

On Friday, September 30, 1988, we took a field trip to the Army's Schofield Shaft. The following were present: Eric Bjorken, Army Corps of Engineers, Pacific Ocean Division; Roy Hardy, Mitch Ohye, Ed Sakoda, DOWALD.

There is a total of five wells at the bottom of the inclined shaft. Four (Wells 1 to 4) are located below the main pump chamber floor and one (Well 5) is located in the "space chamber". Well No. 1 is used as an observation well. Wells 2 and 4 were "down" at the time of the visit.

The Army ran into problems with Well No. 4 when they attempted to replace the pump assembly. They managed to remove the old assembly only with considerably difficulty so they fabricated a dummy of the new assembly. They were not able to get the dummy into the casing so the work was suspended. We were asked if our logger could be used to log the well. The well is inaccessible to the logger. They are looking into the possibility of borrowing a portable logger from another district and also having a TV log of the hole done by Roscoe Moss.

Attached is an information sheet on the Schofield Shaft given to me by Eric Bjorken.

ED SAKODA

ES:ko
Attach.
SCHOFIELD BARRACKS WATER SUPPLY

The water supply for Schofield Barracks is obtained from a deep well located across Kamehameha Highway from Wright Gate, Wheeler Air Force Base.

1. The construction of the Deep Well Pumping Plant started in March 1936 and was completed and placed in operation October 3, 1938. Construction of the plant took approximately 2 years and 7 months.

2. The Deep Well operates 3 shifts a day for 7 days a week. Twelve men operate the Deep Well, outlying booster pump stations, chlorinating stations and the filter plant at the swimming pool.


4. The pumping capacity of the Deep Well Plant is 8,000,000 gallons per day.

5. The consumption averages about 3,400,000 to 5,191,000 gallons per day.

6. The pumping hours average 31 to 43 pumping hours per day.

7. The water consumption averages approximately 118,000 gallons per hour.

8. The three water storage tanks in Schofield holds 5,000,000 gallons. One tank is located at Area BB and the capacity is 1,000,000 gallons. The other two storage tanks are located at Area T and their capacities are 2,000,000 gallons each.

9. The Deep Well shaft is 7 feet in width, 1148 feet in length and is 30 degrees from horizontal. The shaft and pump chamber is through solid volcanic rock.

10. It takes 5 minutes to descent from the headhouse to the pump chamber by cable car. The pump chamber is 20 feet x 90 feet with a 22 feet high arch.

11. Below the pump chamber floor are four 16' wells with depths as follows: No. 1 well, 140 feet; No. 2 well, 150 feet; No. 3 well, 203 feet; No. 4 well, 264 feet. Note: No. 1 well is not in use because of poor productivity. It was not drilled straight.

12. The Deep Well Pumping Plant consists of 3 pumping units. Each unit consists of a Worthington Volute Pump driven by a 400 HP, 400 Volt General Electric Motor and a Sterling 2 stage deep well pump driven by a 60 HP, 400 Volt General Electric Motor. Each unit has it's source of water supply from their own individual well.
13. The pump chamber floor is 237 feet from sea level and 566 feet below ground level. At present, the water level in the wells is about 8 feet from the bottom of the pump chamber floor.

14. The deep well pumps are about 28 feet in the water of each well.

15. The Deep Well pumps pump water into 2 steel tanks at Area 7 which has a capacity of 2,000,000 each.

16. The deep wells are supplied with water from "rains".

17. The spare chamber was constructed by Oahu Engineers Service, Tunnel Division, in 1945. The intent for this spare chamber was to drill three wells and install three additional pumps. The project was not completed at the time due to lack of funds; however, a contract was recently completed for a new well in the chamber.

18. New well depth: 278 feet from floor of gallery.


20. Casing: 112 feet 8 inches; 77 feet of which is perforated starting 4 feet from the bottom end.

21. Water Level: Approximately 6 feet from floor of gallery.

22. Drilling was started 28 February 1956 and well completed and capped 8 June 1956.

23. A two day pumping test was made. The summary of this test is as follows:

<table>
<thead>
<tr>
<th>Pumping Rate</th>
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24. The cost of producing 1,000 gallons of water was $0.07 according to the 1955 Fiscal Year report.

FILTRATION PLANT

1. The Fluoride Plant was placed in official operation on 3 January 1956.

2. The average consumption of fluoride is approximately 19 lbs per mission gallons.

3. A water test of 1.0 ppm of fluoride ICN is maintained.
October 3, 1988

MEMORANDUM FOR THE RECORD

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3. A water test of 1.0 ppm of fluoride ICW is maintained.
Colonel Joseph S. Wasielewski  
Director of Facilities Engineering  
Corps of Engineers  
Department of the Army  
Headquarters U.S. Army Support Command, Hawaii  
Fort Shafter, Hawaii 96858-5000

Dear Colonel Wasielewski:

In response to your request for information regarding ground water use in the Pearl Harbor and Waialua Ground Water Control Areas (GWCA), we are pleased to provide you with the following answers:

Ques. The total quantity of groundwater not already being utilized or reserved for future use currently available for withdrawal within the Pearl Harbor aquifer.

Ans. The present sustainable yield from the Koolau Subarea of the Pearl Harbor GWCA is 200 million gallons per day (mgd). Presently, 199.998 mgd has been authorized to be pumped from the Subarea, leaving a balance of 0.002 mgd.

Ques. The quantities of water currently reserved for future development within the Pearl Harbor aquifer. If water has been reserved for future development, the title of the development and developer's name.

Ans. About 155 mgd was pumped from the Subarea in 1986. The 45 mgd difference between the amount pumped and the amount allocated is due mainly to Cahu Sugar Company's reduced pumpage (51 mgd pumped versus 79 mgd allocated). This reduction in pumpage results from a reduction in acreage cultivated and conversion from furrow to drip irrigation. Additionally, the Honolulu Board of Water Supply pumped 72 mgd of its 88 mgd (average) annual allocation for the year 1986.
Ques. The total quantity of ground water not already being utilized or reserved for future use currently available for withdrawal within the Waialua aquifer.

Ans. The Waialua Subarea within the Waialua GWCA has a sustainable yield of 60 mgd. Presently, 53.612 mgd has been authorized to be pumped, leaving a balance of approximately 6 mgd available for future use.

Ques. The potential for creating additional groundwater for Army use within the Pearl Harbor aquifer through groundwater recharge/reuse of wastewater effluent, boiler cooling water or other means of groundwater recharge.

Ans. The greatest potential for additional ground water use for the Army, at the present time, would be the approximately 6 mgd of ground water available for allocation in the Waialua Subarea.

Because of changes in ground water use and conditions, we have contracted a study and re-evaluation of the Pearl Harbor GWCA, a draft of which is expected to be completed by the end of February. As a ground water user in the Pearl Harbor GWCA, a copy of the draft will be made available to you as soon as possible.

If you have any questions, please contact Mr. Nanabu Tagomori at 548-7533.

Very truly yours,

WILLIAM W. PATY, Chairperson
Board of Land and Natural Resources
REPLY TO ATTENTION OF:

Directorate of Facilities Engineering

Mr. William W. Paty
Chairperson, Dept. of Land and Natural Resources
State of Hawaii
P.O. BOX 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

The U.S. Army has recently been assigned the responsibility to support military (Army, Air Force, and Navy) family housing in Hawaii. As part of this responsibility, the Army intends to construct approximately 600 additional military family housing units at Holoman Military Reservation between 1988 to 1991.

The additional quantities of water required to support the new housing development is approximately 580,000 gallons per day. We have determined that the withdrawal and supply of this additional quantity of water from the Schofield Barracks Wells (State Well No. 3901-02 to 04, 10) would be the most economical alternative. Withdrawal from the Schofield Barracks wells would, however, exceed your assigned maximum preserved use withdrawal limit.

Request you provide information regarding the following:

a. The total quantity of groundwater not already being utilized or reserved for future use currently available for withdrawal within the Pearl Harbor aquifer.

b. The quantities of water currently reserved for future development within the Pearl Harbor aquifer. If water has been reserved for future development, the title of the development and developer name.

c. The total quantity of groundwater not already being utilized or reserved for future use currently available for withdrawal within the Waialua aquifer.
d. The potential for creating additional groundwater for Army use within the Pearl Harbor aquifer through groundwater recharge/reuse of wastewater effluent, boiler cooling water or other means of groundwater recharge.

A timely response is requested since a decision will be soon required regarding how the additional potable water will be supplied for the Helemano Housing Development. Thank you for your cooperation.

Any questions should be directed to Mr. Clifton Takenaka, Master Planning Branch, Planning Division, Directorate of Facilities Engineering, phone 655-0779/0789.

Sincerely,

[Signature]

Joseph S. Wasielewski
Colonel, Corps of Engineers
Director of Facilities Engineering
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<thead>
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<th>INITIAL:</th>
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<td>P. Matsuo</td>
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<td>N. Kaneshiro</td>
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<td>R. Suzuki</td>
<td>S. Kokubun</td>
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<td>Ed</td>
<td>D. Hamada</td>
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<tr>
<td></td>
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<td>L. Nanbu</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>F. Ching</td>
</tr>
</tbody>
</table>

Signatures: S. Kokubun, D. Hamada, L. Nanbu, F. Ching
Mr. William W. Paty
Chairperson, Dept. of Land and Natural Resources
State of Hawaii
P.O. BOX 621
Honolulu, Hawaii 96809

Dear Mr. Paty:

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The additional quantities of water required to support the new housing development is approximately 580,000 gallons per day. We have determined that the withdrawal and supply of this additional quantity of water from the Schofield Barracks Wells (State Well No. 3901-02 to 04, 10) would be the most economical alternative. Withdrawal from the Schofield Barracks wells would, however, exceed your assigned maximum preserved use withdrawal limit.

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Joseph S. Wasielewski
Colonel, Corps of Engineers
Director of Facilities Engineering
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<td>May</td>
<td>C</td>
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1984 Averages:
- Army: 53.782/12 = 4.482
- Navy: 289.649/12 = 24.137
- DOS: 857.35/12 = 71.446
- OCS: 823.457/12 = 68.621

Total Jun 85 (T): 340.345/72 = 4.727
1693.523/72 = 22.827
5192.52/72 = 71.427
6749.768/72 = 93.741
Date _______ Time _______ a.m. _______ p.m. _______
Mr./Ms. CLIFF TAKENAKA
of AICO
Memo From: MR. MUGFORD
Phone 655-0694
Message: MR. BURKE (foreman) wants 655-9998 (supervisor) 655-9614

☐ Telephoned
☐ Please Phone
☐ Returned Your Call
☐ Urgent Call At Once
☐ Will Call Again
☐ Wants to See You
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<th>Initial</th>
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<tr>
<td>Manabu Tagomori</td>
<td></td>
<td>Albert Ching</td>
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<td>Daniel Lum</td>
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<td>George Matsumoto</td>
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<td>Nobu Kaneshiro</td>
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<td>Tom Nakama</td>
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<td>Jon Kurio</td>
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<td>Mitchell Ohye</td>
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<td>Kay Oshiro</td>
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<td>Doris Hamada</td>
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<td></td>
<td>Jane Sakal</td>
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<td>Takeo Fujii</td>
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<td>Elsie Yonamine</td>
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<tr>
<td>James Yoshimoto</td>
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<td>Bill Koyanagi</td>
<td></td>
</tr>
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</table>

Please:

- See me
- Call
- Take action by [date]
- Review & comment
- Draft reply by [date]
- Type draft
- Type final
- Xerox ___ copies
- Mail
- Acknowledge receipt

For:

- ___ Approval
- ___ Signature
- ___ Information

Contact for pumpage data:

Mr. George Keyes
Mechanical Engineer
Phone: 655-0791
REPLY TO ATTENTION OF:

Directorate of Facilities Engineering

SUBJECT: Construction of a Water Treatment Plant Adjacent to Army's Existing Deepwell and Kamehameha Highway, Schofield Barracks, State Application Identifier: No. HI 850.821-140-0

Mr. Donald A. Clegg
Chief Planning Officer
Department of General Planning
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Dear Mr. Clegg:

In response to the comment made by the Department of Land and Natural Resources (DLNR) in your letter of November 26, 1985, the Army will not be withdrawing additional ground water resources from the Pearl Harbor Ground Water Control Area in this project.

The water treatment plant will aerate water that will be pumped from the existing Schofield deepwell. The pump flow capacity will not be increased.

Sincerely,

Joseph S. Wasielewski
Colonel, Corps of Engineers
Director of Facilities Engineering

Copy Furnished:
State Clearinghouse
State Dept of Planning and Economic Development
P.O. Box 2359
250 South King Street
Honolulu, Hawaii 96804
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

June 18, 1983

Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

RESUBMITTAL
Terms of Water withdrawal and Use Permits

The Department's Administrative Rules on ground water control require that the Board specify the period or duration of permits and the commencement and completion dates for the construction of ground water sources. After investigation and study of this matter, DOWALD is ready to make specific recommendations for adoption by the Board of Land and Natural Resources.

The Ground Water Use Law specifies that permits may be issued up to a maximum of 50 years and allows for extension of the permit after one-half of the permit period has lapsed. The staff is recommending that the duration of each permit be established at twenty (20) years with a review every five years by the Board to determine compliance with provisions of the permit. The staff feels that 20 years is a reasonable time for regulating ground water withdrawals and uses at this early stage of the program. As the Department gains experience in ground water regulation, the duration of the permits may be reviewed and adjusted as appropriate in the future.

On commencement and completion dates, the staff recommends that a period of 24 months be established for completing the development of the ground water source. This construction period is a reasonable time for drilling, testing, and for the installation of permanent pumps and controls to fully bring the ground water source into operation. The period may be extended upon a showing of good cause and good faith performance. The permit and construction dates should commence on the date the permit is issued by the Department.

It is recommended that the above terms be standardized for all water withdrawal and use permits issued by the Board, subject to adjustments required by the Board for any permit.

RECOMMENDATION:

That the Board establish the terms of ground water withdrawal and use permits at 20 years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit and that the development of the ground water source be completed within 24 months from the date of permit issuance for all permits issued by the Board, subject to adjustments required by the Board for any permit.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPREVED FOR SUBMITTAL

SUSCHU ONO, Chairman

ITEM D-1

5/19/83
Chairman and Members  
Board of Land and Natural Resources  
State of Hawaii  
Honolulu, Hawaii  

Gentlemen:

Certification of Water Withdrawals and Uses  
Pearl Harbor Ground Water Control Area, Oahu  

The Pearl Harbor Ground Water Control Area (GWCA) which includes the Ewa and Wahiawa judicial districts, was designated for State regulation by the Board of Land and Natural Resources (BLNR) in September 1979 under authority of Chapter 177, HRS, and the Department of Land and Natural Resources (DLNR) Regulation 9. The regulatory procedures call for the BLNR to certify existing water withdrawals and uses and to issue permits for new ground water developments in the Pearl Harbor Ground Water Control Area.

The users of water within the Pearl Harbor Ground Water Control Area have submitted records of pumpage to the Department and from these submittals the annual withdrawals and maximum daily pumpage for individual wells and/or well fields are tabulated as shown in the attached "Certification of Water Withdrawals and Uses" which is made a part hereof. As a result, the following is recommended for certification of existing uses:

<table>
<thead>
<tr>
<th>User</th>
<th>Average Annual (mgd)</th>
</tr>
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<tbody>
<tr>
<td>Board of Water Supply</td>
<td>78.850</td>
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<tr>
<td>U.S. Navy</td>
<td>21.250</td>
</tr>
<tr>
<td>U.S. Army</td>
<td>5.455</td>
</tr>
<tr>
<td>Private</td>
<td>5.955</td>
</tr>
<tr>
<td>Oahu Sugar Company</td>
<td>115.000</td>
</tr>
<tr>
<td>Total</td>
<td>224.613</td>
</tr>
</tbody>
</table>

Oahu Sugar Company submitted figures which exceeded the 115 mgd listed above but because their submission represents unmeasured pumpages, the Department's staff is recommending that 115 mgd be certified. Oahu Sugar, in the meantime, will investigate the matter and if deemed necessary will request that the Board hold a hearing as is allowed under Section 4.4 of Regulation 9 of the Department of Land and Natural Resources.

RECOMMENDATION:

That the Board certify the existing uses and quantity of withdrawal for each well as indicated in the attached "Certification of Water Withdrawals and Uses" dated April 11, 1980 which reflects the recommended withdrawal quantity as follows: Board of Water Supply at 78.85 mgd; U.S. Navy, 21.25 mgd; U.S. Army, 5.455 mgd; Private, 5.955 mgd; and Oahu Sugar Company, 115.0 mgd; subject to the provisions of applicable laws and rules and regulations.

Respectfully submitted,

Robert T. Chuck  
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairman

ITEM D-2
MOTION

Based on the submittal of the staff dated April 11, 1980, I move that the Board approve the issuance of conditional certification to the major users of the ground water who have filed the prescribed declarations, in the amounts recommended by the staff in its submittal dated April 11, 1980, subject to the following:

1. Submission by each user of a water use plan, meeting the management objectives and policies of the Board, within 3 months from the issuance of such objectives and policies by the Board in the State's water management plan.

2. Approval of the water use plans by the Board.

3. Review of the conditional certification within the next 3 years.

4. Reduction in the quantity of water conditionally certified in the event that such water is not being beneficially used as defined by law or that the water use plan is not being implemented effectively.

5. Adjustment in quantity, in the case of Oahu Sugar, upon the installation of a new and more accurate metering system, but in no event will said adjustment exceed the amount of the 1979 withdrawal as contained in the declared use attached to the submittal.
### DEPARTMENT OF LAND AND NATURAL RESOURCES

**CERTIFICATION OF WATER WITHDRAWALS AND USES**

*Pearl Harbor Ground Water Control Area*  
*April 11, 1969*

#### DECLARED EXISTING USE

<table>
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<tr>
<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Source Capacity (mgd)</th>
<th>5-year Average Use (mgd)</th>
<th>1979 Use (mgd)</th>
<th>In-District Use</th>
<th>Maximum Daily Use (mgd)</th>
<th>Total Annual Use (mgd)</th>
<th>Average Daily Use (mgd)</th>
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#### BOARD OF WATER SUPPLY

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<th>District Use</th>
<th>Maximum Daily Use (mgd)</th>
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<th>Average Daily Use (mgd)</th>
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<td>2.400</td>
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</table>

**A7**
| User/Source | State Wall No. | Total | Source Capacity (mgd) | 5 Year Average (mgd) | 1970 (mgd) | Use | 5 Year Average (mgd) | 1970 (mgd) | Use | Maximum Daily | Total Annual | Average Daily:  
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Mr. Robert T. Chuck
Manager-Chief Engineer
Division of Water and Land Development
P.O. Box 373
Honolulu, Hawaii 96809

Dear Mr. Chuck:

My representative attended the major water users meeting held on 12 March 1980 in the DLNR Board Room. We support your objective to stabilize the Pearl Harbor aquifer and control pumpage by the major users.

The Army in Hawaii has been practicing water conservation for the past several years by installing shower flow restrictors and inserting water dams in the toilet tanks. When the island experienced a water shortage, this command issued a strict water conservation policy restricting lawn watering and washing of vehicles. The Army has made an active effort to control water usage. The data previously provided includes the figures for this conservation period. We will make every effort to stay within the 5 MGD allocation; however, if the Army's mission should change or a crisis develop, our daily pumpage might increase.

Every attempt will be made to cooperate with any regulations you may establish and we will inform you should our pumpage allocation need to be increased.

Sincerely,

[Signature]

PETER R. STEWART
COL, EV
Director of Engineering and Housing
Mr. Robert T. Chuck  
Manager-Chief Engineer  
Division of Water and Land Development  
P.O. Box 373  
Honolulu, Hawaii  96809  

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Every attempt will be made to cooperate with any regulations you may establish and we will inform you should our pumpage allocation need to be increased.  

Sincerely,  

PETER D. STEARNS  
COL, EN  
Director of Engineering and Housing
November 5, 1979

Colonel Peter D. Stearns  
Director of Engineering & Housing  
U.S. Army Support Command Hawaii  
Ft. Shafter, Hawaii 96858

Dear Col. Stearns:

We acknowledge receipt of the U.S. Army's Declaration of Existing Water Withdrawal and Use in the Pearl Harbor Ground Water Control Area on October 18, 1979. We will be reviewing the data for certification by the Board of Land and Natural Resources. As suggested, we will contact Mr. Haseyama or Mr. Keys for further assistance.

We appreciate your early response and the fine cooperation extended our staff in the past. We look forward to your continued assistance in managing the State's water resources for the benefit of all interests.

Very truly yours,

/SUSUMU ONO

SUSUMU ONO  
Chairman of the Board

RTC: MT: dh
State of Hawaii  
Department of Land and Natural Resources  
Division of Water and Land Development  
P.O. Box 621  
Honolulu, Hawaii 96809

Gentlemen:

Reference is made to your letter dated October 4, 1979, requesting a Declaration of Existing Water Withdrawal and Use form be completed for each well and returned.

The completed form and computer list are attached. If there are any questions, please call Mr. Haseyama or Mr. Keys at 655-0791.

Sincerely yours,

PETER D. STEARNS  
Colonel, CE  
Director of Engineering and Housing

2 Incls as stated
DECLARATION OF EXISTING WATER WITHDRAWAL AND USE
Pearl Harbor Ground Water Control Area

Instructions: This form must be properly completed, signed, and submitted for each individual well or connected battery of wells on or before January 2, 1980, in accordance with Regulation 9 of the Department. Submit the form with any attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

1. WATER USER: Name: Directorate of Engrg & Hsg Mailing address: US Army Support Cmd, Hi Fort Shafter, HI 96858

2. WATER USER’S CONNECTED BATTERY OF WELLS:
   User’s Well Name and Location: Schofield Barracks Deepwell
   TMK: 7-6-1-1
   User’s Well No. (s): 2
   Pump or natural flow capacity (gpm): 1600
   Capacity determined by flowmeter, nameplate, orifice, etc. (specify): Flowmeter
   Year pump inst./modified: 1938

3. BENEFICIAL USE OF WATER:
   (a) Major Use: [] Municipal [X] Agriculture [X] Military [ ] Industrial
   [ ] Domestic [ ] Other (specify)
   (specify)
   (b) Minor Uses: [ ] Other (specify)
   (c) For Agriculture Use list crop(s), total acreage irrigated, and attach map showing acreage irrigated by the well source.

4. BENEFICIALLY USED WATER WITHDRAWALS:
   (a) All figures given in (b) are records of: [X] Metered flow [ ] Nameplate pump capacity
   [ ] Orifice [ ] Weir [ ] Other (specify)
   (specify)
   (b) Records available (in million gallons per day, three decimal places):

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<td>146.139</td>
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   | Yr. total | 1,807.238 | 2,038.170 | 1,719.764 | 1,752.724 | 1,596.066 | -- | -- |
   | Mo. Ave  | 158.103 | 169.847 | 143.313 | 144.393 | 133.005 | -- | -- |

   5-year average: 4,991 mgd, highest day use 8,933 mgd on 25 Aug 1974.
   (c) For Agriculture Use only: description of withdrawal schedule (include times of day and days of week):

5. WELL DESCRIPTION:
   On the attached computer list of wells, make corrections or additions thereon in red pencil as necessary and return with Declaration form. If information is readily available in another form, you may submit it in lieu of a corrected computer list.

Declarant: Under penalties provided in Regulation 9 of the Department of Land and Natural Resources, the undersigned declare and certify that this declaration has been examined, including accompanying statements and to the best of knowledge and belief, it is true, correct, and complete.

Signature: PETER D. STEARNS
Colonel, CE
Director of Engineering and Housing

Signature: LANDOWNER OF WELL SITE

For Official Use:
Last day to certify 4/17/80
Date Certified
Amount certified
WELL NO.
WATER USE PERMIT NO. 464

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

Water User: United States Army  
              APVG-GWC  
              Schofield Barracks, HI 96857

Landowner of Source: United States Army  
                      APVG-GWC  
                      Schofield Barracks, HI 96857

Permitted Withdrawal Rate: 5.648 mgd (Based upon a 12-month moving average)

Water Management Area: Wahiawa

Island: Oahu

Aquifer Sector/System: Central/Wahiawa

System Sustainable Yield: 23 mgd

Water Type: Potable

Original CWRM Date: May 14th, 1997

Standard Conditions: 1-20, 22

Special Conditions: 93

Water Source

State Well Number(s): 2901-02, 2901-03, 2901-04, 2901-10

Well Name: Schofield Shaft

Water Source TMK Number(s): 1st Division, 7-6-001:008

State Land Use Classification(s): Agriculture/Conservation

County Zoning Classification(s): F-1/P-1

Geographical Coordinates: Latitude 21° 29' 15.6" North  
                          Longitude 158° 01' 38.3" West

End Use

End Use TMK Number(s): 1st Division, Various

State Land Use Classification(s): Various

County Zoning Classification(s): Various
Beneficial Use Explanation: Domestic water supply for Schofield Barracks, Wheeler Airfield, Kunia Tunnel, and Helemano Military Reservation

Background Information
State Well Nos. 2901-02, 2901-03, 2901-04, and 2901-10 were originally governed by Water Use Permit 191 and were assigned an allocation of 5.700 mgd. In May of 1997, however, Water Use Permit 464 superseded Water Use Permit 191 and reduced the permitted allocation from this well battery to 5.648 mgd. There are no water use reporting records on file for any of the four wells in this battery.

Water Use Permit 464 was approved during the May 14th, 1997 Commission on Water Resource Management meeting. This water source has been in use since the 1930's by the United States Military. Standard conditions 1-20 & 22 and special condition 93 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 this 20-year Water Use Permit Review.

Field Investigation Information

Contact: Wayde Nakai
Site Address: Wheeler Army Airfield, Building 1580
Schofield Barracks, HI 96857

Brown and Caldwell conducted a field investigation on February 12th, 2008 from 9:00 a.m. until 9:45 a.m. with Mr. Wayde Nakai. 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 this site is at the Wheeler Water Plant, located at the intersection of Kamehameha Highway and Higgins Road. 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. 464
State Well Nos. 2901-02, 2901-03, 2901-04, and 2901-10 are located on TMK parcel 7-6-001:008 at 21° 29' 15.6" N, 158° 01' 38.3" W, with a real time accuracy of ±14 feet. The wells are located within an underground structure and the GPS coordinates listed should be considered as an approximate location of the well battery. Of the four wells present, three wells are primary and
one is for backup purposes only. Water is drawn from the wells, metered, and sent to various storage tanks and/or facilities across Schofield Barracks, Wheeler Army Airfield, Kunia Tunnel, and Helemano Military Reservation. Because of the extensive end use areas, water waste/water losses at these locations were not verified. Reference the Appendix for photographs of the previously described system components. Note that photographs at this site were limited due to confidentiality issues expressed by the United States Army.

The following are a list of standard condition(s) that the permittee is found to be in non-compliance with:

(10) An approved flowmeter must be installed to measure monthly withdrawals and a month 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.

The permittee provided evidence of daily water use records, as well as comprehensive control and analysis systems. However, water use is not being reported to the commission. As such, the permittee is in violation of Standard Condition (10).

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.

Recommendations

• Update the Commission’s electronic database with the following:
  o Update beneficial use explanation
  o Update TMK information
  o Create memo field entry noting field investigation on 2/12/08

• Address issue of non-reporting of water use and violation of Standard Condition (10)
20-Year Water Use Permit Review
Water Use Permit No. 464

APPENDIX

Field Investigation Photographs
Figure 1 – State Well No. 2901-10

Figure 2 – State Well No. 2901-02
Figure 5 – Functional system flowmeter
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>
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> 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:
1. 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 interfered 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 in form 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 808-586-4258 (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: 464
Well Number(s): 2901-02, 2901-03, 2901-04, 2901-10

Contact Information (of the person who will be present at site visit):
Name: Karl Square
Phone (for phone interview): 516-854-1408 (2) 864-0137 Fax: 666-8230
Email: Karl.Square@us.army.mil
Best time to reach for phone interview: M-F 0730-1530

Property Information (of the water use/well location):
Address: Wheeler Army Airfield building 1580
City: Schofield Barracks
Well Location TMK (list all if multiple wells present): 7-7-01-1
Water Use TMK (list all if used on multiple lots):

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"): Domestic water use for Schofield Barracks, Wheeler Army Airfield, Kunia Tunnel and Helemano

Military Reservation

Is a flow meter installed and working properly? Yes ☒ No ☐
If no, please explain: flow meter needs to be calibrated

Do you submit monthly water use reports to the State? Yes ☒ No ☐
If no, please explain: We have been submitting reports sporadically

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 (M-F): ☒ Thursday, Friday Time: 9:00 am ☒ 12:00 pm ☐ 3:00 pm ☐
Option #2 Date (M-F): ☐ Time: 9:00 am ☐ 12:00 pm ☐ 3:00 pm ☐
Option #3 Date (M-F): ☐ 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@browncald.com

For Official Use Only
Received: 12/12/07 Information Updated: 12/12/07 Phone Interview Complete: 2/7/08
Notes/Comments:
Phone Interview

WUP Number: 4461  Well Number(s): 2001-02, 03, 04, 10

Contact Name:  Karl Sonta  Phone Number: 556 - 1410 (x 112)

Attempt #1:  Date/Time:  2/1/08 (10:33 a.m.)  Result: Received
Attempt #2:  Date/Time:  N/A  Result: N/A

Well Location TMK(s):  7-6-021.001
Water Use TMK(s):  7-6-021.001

Water Source Address:  Wheeler Army Airfield
City:  Schofield Barracks  Zip Code: 96857

Currently using water source?  Yes ☒  No ☐

Notes/Comments:  Domestic use for Army installations

How often is the water source being used?  Daily ☒  Weekly ☐  Monthly ☐

Notes/Comments:

How long have you been using this water source?:  N/A

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:  N/A

Scheduled field investigation day/time:  2/1/08 @ 9:00 am

Notes (Special directions, site conditions, potential hazards, general notes, etc.):

Wheeler Water Plant (Meeting w/ Wayde Naka)

Milliken Tech Park ➔ Kam. Hwy. ➔ 8 at Wheeler Army Airfield

Intersection of Kam & Higgin ➔ on Higgin ➔ on 8

Look for 5 white towers

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.

Interviewed By:  M.S.  Date:  2/7/08  Time:  10:30 am
Field Investigation Checklist

**WUP Number:** 104  
**Well Number(s):** 2a01-02, 03, 04, 10

**Water Source**
- **Well Location TMK(s):** 7-6-001, 008
- **Well Head GPS Coordinates:**
  - Latitude: Below
  - Longitude: Below
- **Well Type:** Well Pump
- **Currently using water source?** Yes ☑  No ☐
- **Notes/Comments:** Use at various locations

**Is there a flow meter installed?** Yes ☑  No ☐
- **Is the flow meter operational?** Yes ☑  No ☐
- **Notes/Comments:** 4-0-1-3-4-2 (Well order)

**Water Use**
- **Water Use TMK(s):** Various

**What is the water being used for?** Domestic supply for Schofield Barracks, Wheeler Airfield, Kane Tunnel, Helemano Military Reservation.

**Is the water being used within the permitted boundaries?** Yes ☑  No ☐
- **If no, explain:** None noticed

**Is there any observed wasting of water or water loss?** Yes ☑  No ☐
- **If no, explain:** None noticed

**Are the permit conditions being complied with?** Yes ☑  No ☐
- **If no, explain:** Reports need to be submitted; Permittee has them on record but is not sending them in, Advised to do so.

**Other**
- **Photographs of:** Water Source ☑  Usage Area ☐  Pump/Motor ☐

**General Notes/Comments:**
- Email regarding contact info for reporting forms.

**Investigated By:** M.S.  
**Date:** 2/12/03  
**Time:** 9:00am
Mr. Kent Watase
U.S. Army
APVG-GWC
Schofield Barracks, HI 96857

Dear Mr. Watase:

Approval of Water Use Permit (WUP No. 464) for Well No. 2901-02
Wahiawa Ground Water Management Area, Oahu

This letter transmits your water use permit for Schofield Shaft (Well Nos. 2901-02 to 04, 10) for use of 5.648 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 May 14, 1997.

Your request to modify the water use permit(s) for Schofield Shaft to reduce the permitted use quantity by 0.208 mgd was achieved through: 1) the cancellation of WUP No. 181, which was approved on August 18, 1993 for 0.156 mgd; and 2) a 0.052 mgd reduction in permitted use for WUP No. 191, which was approved on July 19, 1989 for 5.7 mgd. WUP No. 464 (attached) supersedes WUP No. 191; please note the new set of standard conditions which are attached to WUP No. 464. In addition, as part of the Commission’s approval, the following special condition has been added and is part of your permit under Standard Permit Condition 20:

Special Conditions

a. Standard Condition 18 for interim water use permits shall not apply.

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. If you accept these terms, please sign and return one copy of this permit to the Commission and retain a copy for your record.

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 Wahiawa 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 Lenore Nakama of the Commission staff at 587-0218.

Aloha,

Michael D. Wilson
Chairperson

Attachments
GROUND WATER USE PERMIT
WUP NO. 464

PERMITTEE

<table>
<thead>
<tr>
<th>Applicant/Water User</th>
<th>Landowner of Source</th>
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<tr>
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PERMITTED SOURCE INFORMATION

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<tr>
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</tr>
<tr>
<td>Aquifer System</td>
<td>WAHIAWA</td>
</tr>
<tr>
<td>System Sustainable Yield</td>
<td>23 mgd</td>
</tr>
<tr>
<td>Well Name</td>
<td>SCHOFIELD SHAFT</td>
</tr>
<tr>
<td>State Well No.</td>
<td>2901-02 TO 04.10</td>
</tr>
</tbody>
</table>

PERMITTED USE INFORMATION

<table>
<thead>
<tr>
<th>Reasonable beneficial use</th>
<th>MILITARY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal (12 month moving ave.)</td>
<td>5.648 mgd</td>
</tr>
<tr>
<td>Location of water use</td>
<td></td>
</tr>
<tr>
<td>TMK #</td>
<td>7-7-01-1</td>
</tr>
<tr>
<td>Address</td>
<td>SCHOFIELD BARRACKS</td>
</tr>
<tr>
<td>State land use classification</td>
<td>URBAN</td>
</tr>
<tr>
<td>County zoning classification</td>
<td>EXEMPT</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 applicant 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 May 14, 1997 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 WAHIAWA 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 WAHIAWA 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 WAHIAWA 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.

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

Applicant's Signature: ___________________________ Date: ___________________________

Printed Name: ___________________________ Firm or Title: ___________________________

Please sign both copies of this permit, return one to the Commission, and retain the other for your records.
Note: The sketch below shows wells and their current numbering system. The records for the various wells are conflicting and cannot be reconciled as to depth and diameter.

According to old records, one well was drilled and suffered a casing collapse, when another well was drilled nearby, it drifted into the original hole. We believe this is "old number 1" and now only contains an aquifer static level gage. There were apparently some other wells drilled at this time now called 2 and 3. All of these wells were probably drilled in 1936.

According to an old plan, another well is shown about 1938. We now call this #1 and it is probably well #6 in DNR system.

Your #7 is the access shaft or tunnel, it produces no water. Your #10 is apparently the last one drilled in 1956 and is now our #4.
"SCHOFIELD BARRACKS WATER SUPPLY"

The water supply of Schofield Barracks is obtained from the Deepwell Pumping Plant located across Kamehameha Highway from Wright Gate of Wheeler Field Air Force Base.

1. The construction of the Deepwell Pumping Plant was begun in March 1936. It was completed and placed in operation 3 October 1938. Construction of the plant took approximately 2 years and 7 months.

2. The Head-House which consists of an office area, an electric panel board and a 5-ton mining type hoist is located 854 feet above sea level. Adjacent to the head-house are located the Fluoride Plant and the Chlorinator Rooms.

   a. The 5-ton mining type hoist is a product of Superior Lidgerwood and Mundy Co. Its drum is 5 feet in diameter and is 24 inches from flange to flange. It has a cable that is 7/8-inch x 1800 feet.

   b. Chlorination was introduced into the water system at its inception. A residual of 0.4 ppm is maintained on post.

   c. Fluoridation was introduced into the water system on 3 January 1956. The average consumption of fluoride is approximately 17 lbs per million gallons. Fluorine ION test of water is maintained between 0.6 to 0.8 ppm.

3. The Shaft which leads from the Head-House to the Pump Chambers is 7 feet in width, 1148 feet in length and is 30 degrees from horizontal. The shaft and the pump chambers are through solid volcanic rock. Transportation in this shaft is on a skip (hoist car) that is attached to the 7/8-inch cable which is wound around the 5-ton mining type hoist noted in paragraph 2-a above. Travel time is 5 minutes either way.

4. There are two pump chambers which are located 56 feet from the perpendicular below ground and 298 feet above sea level. These pump chambers are located at the bottom of the shaft (detailed in paragraph 3). To the left is the original chamber which measures 20 feet x 90 feet with a 22 foot arched ceiling. To the right is located the new pump chamber. This chamber is 20 feet x 64 feet. Its ceiling is 27 feet 6 inches high.

5. Below the original chamber floor are four 16 inch in diameter wells with depths as follows: No. 1 Well - 140 feet; No. 2 Well - 150 feet; No. 3 Well - 203 feet; and No. 4 Well - 264 feet. (Note: No. 1 Well is not used because of poor productivity. It was not drilled straight. This well is used to measure the water table.)

6. In the original pump chamber are located three pumping units with their related equipment. No. 1 unit is an original unit which was installed in 1938. It consists of a Worthington Volute Pump, 1600 GPM, driven by a 400 HP, 4160 Volt General Electric Motor and a Layne 2 stage (1800) GPM deep well pump driven by a 70 HP, 4160 Volt General Electric Motor. No. 2 and...
No. 3 units are new units. These units were installed and placed in operation in May 1969 and each consists of a Layne-Bowler 10 stage 2000 GPM deep well pump driven by a 500 HP, 4160 Volt General Electric Motor.

7. Each deep well pump has its source of water supply from individual wells.

8. The new pump chamber was developed over a longer period of time. It was excavated by Oahu Engineers Service Tunnel Division in 1945 during the war. The intent for this chamber was to drill three wells and install three additional pumps. The project was not completed at the time due to the ending of World War II and all project funds were stopped.

9. Drilling of a fifth well in this new pump chamber was started on 28 February 1956. It was completed and capped 8 June 1956. This well is 278 feet from the pump chamber floor and is 16 inches in diameter. It is cased the first 112 feet 8 inches; 77 feet of which is perforated starting 4 feet from the bottom end.

10. A final contract which began in April 1964 included the enclosing of this chamber with concrete and the installing of a 10 stage, 2000 GPM Layne Bowler Pump driven by a 500 HP, 4000 Volt, General Electric Motor with its related equipment was completed and placed in operation April 1966.

11. The Deepwell Pumping Plant operates 3 shifts a day for 7 days a week. In addition to this installation, the Water Plant Unit operates outlying booster pump stations, chlorinating stations, filtration plants at two swimming pools on post, a water system at Waiawa Military Reservation and water systems at three Nike Sites. The Water Plant Unit employs 10 men.


13. The pumping capacity of the Deepwell Pumping Plant is 9,000,000 gallons per day.

14. Water consumption averages approximately 118,000 gallons per hour.

15. Average consumption amounts to about 3,500,000 to 5,000,000 gallons per day.

16. Pumping hours average between 31 to 43 hours per day.

17. There are three water storage tanks in Schofield with a total capacity of 5,000,000 gallons. The Deepwell Pumping Plant pumps water into two 2,000,000 gallon steel tanks located in Area "T". A booster pump station located in this area pumps water into a 1,000,000 concrete tank located in Area BB just below Pollock Pass.

The cost of producing 1,000 gallons of water from the deep well was $0.10 according to the 1968 Fiscal Year report.
Pump Replacement for Well No. 2901-03 (regulation/survey route)

1. **Previous Pump Tests Check**
   - Charley/Denise Ryan (initial)
   - Yes / No

   - Current Well Transmissivity in database? Yes / No
   - Current Well Specific Capacity in database?

   For a "No" above, is there any previous Pump Test Data in the file? Yes (circle one)
   IF DATA EXIST, THEN GO TO 2. IF NO DATA EXIST, THEN GO TO 3.

2. **Pump Tests Analysis**
   - Diane England (initial) take action based on above analysis
     - Step—Drawdown Test:
       - followed WCPI Stds
       - analysis attached
     - Aquifer Pump Test:
       - followed WCPI Stds
       - T & S analysis attached
       - proposed pump cap o.k.
     - Potential Well Interference
     - Potential Stream Impacts:
     - Additional Testing or Data Required
     - Pump Test Comments Attached

3. **Pump Installation Check**
   - Mitch Ohye (initial)
   - Yes / No

   - data complete?
   - elevation benchmark changed?
   - well database updated?

4. Charley/Denise Ryan (initial) take action based on above analysis

   ATTACHMENTS FOR ACCEPTANCE:
   - 1 WCR2 ACCEPTANCE LETTER
   - 2 PUMP INST. COMPLETION CERTIFICATE
   - 3 METER INSTALL. REPORT (IF NECESSARY)
   - 4 WUR FORM (if necessary)

   To be sent to driller
   To be sent to landowner/operator

   Staff internal checks

5. Roy (initial) check (Entered PICC accept date into database)

6. Susan Hoogbin (initial) finalize

7. Ken (initial) signature

8. Charley/Denise Ryan File
November 25, 2008

Mr. Wade Nakai
U.S. Department of Army
APVG-GWC
Fort Shafter, HI 96858

Dear Mr. Nakai:

Certificate of Pump Installation Completion
Schofield Tunnel DW No. 2 (Well No. 2901-03) (TMK (1) 7-6-001:001)

We are pleased to inform you that the pump replacement work done on Schofield Tunnel DW No. 2 (Well No. 2901-03) is complete and acceptable. This certificate, together with your water use permit (WUP No. 464), allows you to continue using water from this well for reasonable and beneficial use.

To protect Hawaii’s natural ground water resources for the benefit of all, the following requirements apply to the use of your well:

1. If the well is not in use, it must be properly capped.

2. If the well is to be abandoned, then the landowner must cause a licensed contractor to apply for a well abandonment permit in accordance with §13-168-12(f), HAR prior to any well sealing or plugging work.

3. In the event that the well operator and/or landowner changes, the Commission shall be notified prior to the change.

4. In the event the benchmark in the concrete base of the well is altered in any way, an updated version of the Well Elevation page of the Well Completion Report Part I shall be submitted to the Commission. If a licensed surveyor had estimated the original benchmark elevation then a licensed surveyor must establish the new benchmark elevation. The Well Elevation portion of the Well Completion Report Part I can be obtained from Commission staff or downloaded from our website at www.hawaii.gov/dlnr/cwrmlresources_permits.htm.
5. The new pump has a capacity of 2,000 gallons per minute at a head of 640 feet. Any future pump replacements of equal or lesser capacity will not require a Commission permit; however, the pump installer will be required to submit a Well Completion Report Part II to the Commission within 60 days after the work is completed. If the capacity of the replacement pump is greater than the existing pump, you will need to apply for a new pump installation permit prior to performing any work on this well.

6. The landowner shall cause the well operator to maintain the installed meter or other appropriate means for measuring and reporting water withdrawals and water levels, and appropriate devices or means for measuring chloride concentrations and water temperature. These data shall be measured monthly and reported to the Commission on a monthly basis, on forms provided by the Chairperson, in accordance with §13-168-7, HAR. Blank water use report forms can be obtained by contacting Commission staff or from our website at www.hawaii.gov/dlnr/cwrm/resources_permits.htm.

7. The use of this well shall not adversely affect existing or future legal uses of water in the area, including any surface water or instream flow standards. The authorization to drill a well and/or install a pump does not constitute a determination of correlative water rights. The landowner/well operator is notified that the approved pump capacity and/or the permitted quantity of water use could be reduced by the Commission in the future.

8. Your well is located in a groundwater management area, which requires a water use permit from the Commission, in accordance with Hawaii Revised Statute §174C-48. Your water use permit is WUP No. 464. WUP No. 464 allows this well to serve approved domestic and golf course irrigation water uses.

Because groundwater in Hawaii is a public trust, and adverse effects at one well may affect other water resources, any violation of the above conditions, or any other provision of the of the State Water Code (Chapter 174C, HRS) or the Hawaii Administrative Rules, may be subject to fines of up to $5,000/day. The Commission needs your help and asks that you do your part in utilizing and to protect this shared resource. We prefer to work with you in meeting the goal of protecting our groundwater resources together.

If you have any questions, please contact Denise Mills of the Commission staff at 587-0251.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

DEM:ss

c: Beylik Drilling & Pump Services, Inc.
November 25, 2008

Ms. Toni Gonsalves,
Beylik Drilling & Pump Services, Inc.
91-259A Olai Street
Kapolei, HI 96707

Dear Ms. Gonsalves:

Well Completion Report Part II for Well No. 2901-03

We received your Well Completion Reports Part II for the pump replacement work completed in Schofield Tunnel DW No. 2 (Well No. 2901-03) on November 17, 2008. The capacity of the replacement pump is the same as the original pump capacity, so a pump installation permit was not required for this work. By this letter we acknowledge that your well completion report and the pump installation work are complete and acceptable.

We will issue a certificate of pump installation completion to the U.S. Department of Army at Fort Shafter and send you a copy for your record. This certificate transfers responsibility of all aspects of well usage and maintenance from you to the landowner and/or well operator.

If you have any questions, please contact Denise Mills of the Commission staff at 587-0251.

Sincerely,

KEN C. KAWAHARA, P.E.
Deputy Director

DEM:ss

c: Wade Nakai, U.S. Department of Army
TO COMMISSION ON WATER RESOURCE MANAGEMENT  
P.O. BOX 621  
HONOLULU, HI 96809

WE ARE SENDING YOU ☑ Attached  ☐ Under separate cover via ______________________________ the following items:

☐ Shop drawings  ☐ Prints  ☐ Plans  ☐ Samples  ☐ Specifications  ☐ Copy of letter  ☐ Change order  ☐ ______________________________

<table>
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<th>COPIES</th>
<th>DATE</th>
<th>NO.</th>
<th>DESCRIPTION</th>
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<td>1</td>
<td>10/29/08</td>
<td></td>
<td>WELL COMPLETION REPORT: PART II - STATE WELL NO.: 2901-03</td>
</tr>
</tbody>
</table>

THESE ARE TRANSMITTED as checked below:

☑ For approval  ☐ Approved as submitted  ☐ Resubmit ________ copies for approval  
☐ For your use  ☐ Approved as noted  ☐ Submit ________ copies for distribution  
☐ As requested  ☐ Returned for corrections  ☐ Return ________ corrected prints  
☐ For review and comment  ☐ ______________________________  ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS __________________________________________________________

______________________________________________________________

COPY TO  C FILE / 1571T-08

SIGNED: ________________________________

If enclosures are not as noted, kindly notify us at once.

TONI GONSALVES
PROJECT MANAGER
1. State Well No.: 2901-03
2. Address: Schofield
4. Date Pump Installed: 10/29/2008
5. PERMANENT PUMP INFORMATION
   Pump Type, Make, Serial No.: Vertical Lineshaft, Flowserve, SN: 0809APN01450-1
   Rated Capacity: 2,000 gpm at head of: 640 ft.
   Motor Type, H.P., Voltage, rpm: VHS, 450 HP, 4160V, 1800 RPM
6. Method of flow measurement:
   □ Flowmeter w/ totalizer Manufacturer Controlatron Model no. 990 Size Existing
   □ Other, explain and attach schematic
7. Fill in the as-built section on the other side of this sheet.
8. Attach the rating curve for the installed pump.
9. Attach photograph of well clearly showing the benchmark on the concrete pad, the well head, and the method of flow measurement.
10. Well Owner Company US Dept. of Army Contact Wade Nakai
    Address Fort Shafter, HI 96858 Phone (808) 655-6727 Fax
11. Land Owner Company Same as above Contact
    Address Phone Fax
12. Remarks

Pump Installation Contractor (print) Beylik Drilling & Pump Svcs., Inc. C-57/C-57a/A Lic. No. AC-21896
Signature Date 10/29/2008
7. AS-BUILT PUMP SECTION  (Please attach as-built if different from diagram provided below)

Bench mark elevation surveyed to nearest 0.01 ft. = 287 ft. mean sea level

Elevation of top of chase tube = N/A ft. mean sea level

Pump intake depth = 33.33 ft. (referenced to bench mark)

Chase tube depth = N/A ft. (referenced to bench mark)

If airline installed, bottom of airline elevation = N/A ft. mean sea level
Customer: SCHOFIELD TUNNEL
Item number: 3987-W0000
Service: SCHOFIELD TUNNEL
Vendor reference: 3987-W0000
Date: July 29, 2008

Capacity: 2000.0 USgpm
Head: 640.00 ft
Specific gravity: 1.000
Pump speed: 1770 rpm

Pump size & type: 12EBM
Based on curve no.: EC-2420
Number of stages: 13

CURVES ARE APPROXIMATE. PUMP IS GUARANTEED FOR ONE SET OF CONDITIONS, CAPACITY, HEAD, AND EFFICIENCY.

Bowl performance shown below is corrected for materials, viscosity and construction.

Head - ft
9.12 in Maximum
9.12 in Rated
8.13 in Minimum
MCSF
NPSHr

Power - hp
0
200
400
600
800

Capacity - USgpm
0
800
1600
2400
3200

Efficiency
0
10
20
30
40
50
60
70
80
90
100

Bowl head of 855.2 ft corresponds with 640.0 ft head at discharge flange adjusted for elevation and friction losses.
Hi Denise,

Please see the response from the Army below regarding Schofield DW Pump No. 2. We've also asked them to forward any documentation/records on file, which in turn we would forward on to the Water Commission. Hope this helps!

Aloha,

Toni Gonsalves
Estimator/Project Manager
Beylik Drilling & Pump Service, Inc.
91-259A Olai Street
Kapolei, HI 96707
Ph: 808-682-5554
Fax: 808-682-5866
Email: gonsalves@beylik.com

-----Original Message-----
From: Nakai, Wayde T Mr CIV USA IMCOM
Sent: Wednesday, October 01, 2008 4:17 PM
To: Dennis McElrath; Yonesaki, Kerwyn T Mr CIV USA IMCOM; Takai, Mavis F Mrs CIV USA IMCOM; Watanabe, Colin S Mr CIV USA IMCOM
Cc: Mike E; Danny M; Elton Inoue; Toni Gonsalves
Subject: RE: Confirmation of State Well No. for Schofield DW Pump No. 2 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Dennis / Toni,

That's correct. The well # 2901-03 is for the Deep well Pump #2. Drilled in 1936, elevation 287 ft, casing dia. 14 inches, Total depth 204 ft, casing depth 80 ft.
Hope that helps.

Wayde

-----Original Message-----
From: Dennis McElrath
Sent: Wednesday, October 01, 2008 1:21 PM
To: Yonesaki, Kerwyn T Mr CIV USA IMCOM; Takai, Mavis F Mrs CIV USA IMCOM; Kalani Kauaihilo; Nakai, Wayde T Mr CIV USA IMCOM; Watanabe, Colin S Mr CIV USA IMCOM; Stelter, Richard E Mr CIV USA IMCOM
Cc: Mike E; Danny M; Elton Inoue; Toni Gonsalves
Subject: Fw: Confirmation of State Well No. for Schofield DW Pump No. 2

Aloha DPW'
Our site visit this morning was a success however, please see request below from our subcontractor - Beylik Drilling. I guess, upon contact of the State Water Commission, the size pump in place and what is on file is a different size. What Beylik needs is the State Well Number for the SBWP Deep Well No. 2?

Can someone confirm this information to FOPCO and Beylik?

Thank you for your confidence in our service. My warmest aloha'

Dennis
FOPCO

----- Original Message ----- 
From: Toni Gonsalves <mailto:gonsalves@beylik.com>
To: Dennis McElrath
Sent: Wednesday, October 01, 2008 11:32 AM
Subject: Confirmation of State Well No. for Schofield DW Pump No. 2

Hi Dennis,

Can you please ask the Army to confirm the State Well Number for Schofield Deep Well Pump No. 2? (Example: State Well No. 2901-03).

The Water Commission does not have that information on file and asked us to confirm with the Army prior to replacing the pump and filing the Well Completion Report (Part II).

Toni Gonsalves
Estimator/Project Manager
Beylik Drilling & Pump Service, Inc.
91-259A Olai Street
Kapolei, HI 96707
Ph: 808-682-5554
Fax: 808-682-5866
Email: gonsalves@beylik.com

Classification: UNCLASSIFIED
Caveats: NONE
Directorate of Facilities Engineering

Department of Land & Natural Resources
Commission on Water Resource Management
State of Hawaii
P.O. BOX 621
Honolulu, Hawaii 96809

Gentlemen:

This is in regards to your letter of April 18, 1990 for your file "US ARMY OAHU".

As previously reported verbally to your staff, the summary omits reference to the Schofield battery of wells which was submitted with the others but apparently misplaced. To be specific, there are 4 wells at Schofield, 2000 GPM each; 2-1200 at Fort Shafter; 2-1200 in Kuna used for cooling, 2-1300 at Tripler, and a single 130, 55, and 20 GPM respectively at Kahuku, Kaena Point and Punalu'u. The last two are USAF property and are operated by us for them.

The enclosed sketch shows the relation of the Schofield wells. These numbers are our own local numbers.

If there are any questions, please call Mr. George Keys at 655-6383.

Sincerely,

[Signature]

John L. Motes II
Colonel, U.S. Army
Director of Facilities Engineering

Enclosure
Note: The sketch below shows wells and their current numbering system. The records for the various wells are conflicting and cannot be reconciled as to depth and diameter.

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According to an old plan, another well is shown about 1938. We now call this #1 and it is probably well 06 in DINR system.

Your #7 is the access shaft or tunnel, it produces no water.

Your #10 is apparently the last one drilled in 1956 and is now our #4.
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   b. Chlorination was introduced into the water system at its inception. A residual of 0.4 ppm is maintained on post.
   c. Fluoridation was introduced into the water system on 3 January 1956. The average consumption of fluoride is approximately 17 lbs per million gallons. Fluorine ION test of water is maintained between 0.6 to 0.8 ppm.

3. The Shaft which leads from the Head-House to the Pump Chambers is 7 feet in width, 1148 feet in length and is 30 degrees from horizontal. The shaft and the pump chambers are through solid volcanic rock. Transportation in this shaft is on a skip (hoist car) that is attached to the 7/8-inch cable which is wound around the 5-ton mining type hoist noted in paragraph 2-a above. Travel time is 5 minutes either way.

4. There are two pump chambers which are located 556 feet from the perpendicular below ground and 288 feet above sea level. These pump chambers are located at the bottom of the shaft (detailed in paragraph 3). To the left is the original chamber which measures 20 feet x 90 feet with a 22 foot arched ceiling. To the right is located the new pump chamber. This chamber is 20 feet x 64 feet. Its ceiling is 27 feet 6 inches high.

5. Below the original chamber floor are four 16 inch in diameter wells with depths as follows: No. 1 Well - 140 feet; No. 2 Well - 150 feet; No. 3 Well - 203 feet; and No. 4 Well - 264 feet. (Note: No. 1 Well is not used because of poor productivity. It was not drilled straight. This well is used to measure the water table.)

6. In the original pump chamber are located three pumping units with their related equipment. No. 1 unit is an original unit which was installed in 1938. It consists of a Worthington Volute Pump, 1600 GPM, driven by a 400 HP, 4160 Volt General Electric Motor and a Layne 2 stage 1800 GPM deep well pump driven by a 70 HP, 4160 Volt General Electric Motor. No. 2 and
7. Each deep well pump has its source of water supply from individual wells.

8. The new pump chamber was developed over a longer period of time. It was excavated by Oahu Engineers Service Tunnel Division in 1945 during the war. The intent for this chamber was to drill three wells and install three additional pumps. The project was not completed at the time due to the ending of World War II and all project funds were stopped.

9. Drilling of a fifth well in this new pump chamber was started on 28 February 1956. It was completed and capped 8 June 1956. This well is 278 feet from the pump chamber floor and is 16 inches in diameter. It is cased the first 112 feet 8 inches; 77 feet of which is perforated starting 4 feet from the bottom end.

10. A final contract which began in April 1964 included the enclosing of this chamber with concrete and the installing of a 10 stage, 2000 GPM Layne-Bowler Pump driven by a 500 HP, 4160 Volt General Electric Motor with its related equipment was completed and placed in operation April 1966.

11. The Deepwell Pumping Plant operates 3 shifts a day for 7 days a week. In addition to this installation, the Water Plant Unit operates outlying booster pump stations, chlorinating stations, filtration plants at two swimming pools on post, a water system at Wahiawa Military Reservation and water systems at three Nike Sites. The Water Plant Unit employs 10 men.


13. The pumping capacity of the Deepwell Pumping Plant is 9,000,000 gallons per day.

14. Water consumption averages approximately 118,000 gallons per hour.

15. Average consumption amounts to about 3,500,000 to 5,000,000 gallons per day.

16. Pumping hours average between 31 to 43 hours per day.

17. There are three water storage tanks in Schofield with a total capacity of 5,000,000 gallons. The Deepwell Pumping Plant pumps water into two 2,000,000 gallon steel tanks located in Area "T". A booster pump station located in this area pumps water into a 1,000,000 concrete tank located in Area EB just below Kolokole Pass.

The cost of producing 1,000 gallons of water from the deep well was $0.10 according to the 1968 Fiscal Year report.
SPATIAL ARRANGEMENT OF WELLS TO SUSPECTED FLOW DIRECTION
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WATER METER INSTALLATION REPORT

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 821, Honolulu, Hawaii 96803. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work.
For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For updates to this form or additional information, please visit our website at http://www.hawaii.gov/dlnr/cwrm/

Method of flow measurement:

- Flowmeter
- Manufacturer
- Model no. 994NSDS
- Size 3C1
- 24"

- Other*: explain below

Remarks/comments:
SCHOFIELD BARRACKS WATER PLANT BLOCK 1580, SCHOFIELD

REVIEW, WELL No. 2901-02-04, 10

ULTRASONIC FLOWMETER# 994NSDS-3C1

CONTROLotron TRANSDUCER P/N# 991NMS-4

SYSTEM 990 MULTIPULSE TRANSIT - TIME FLOW METER

Landowner (print) __________________________________________

Signature __________________________________________ Date ____________

Water Meter Report 4/28/2005
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5/29

Ed

Talked to Ron Sonoe regarding permits for these wells. Apparently they are a long way off from starting. The purpose of the well is to track water level gradients and to track flow paths so that they can find the origin of TCs in Schofield. Start work in the Army wells.

Tracy Rushell
BOREHOLE GEOPHYSICS

The Subcontractor shall perform the following services for the Remedial Investigation portion of Task 5, Schofield Army Barracks.

SCOPE

The Subcontractor will perform borehole geophysical logging in four existing Schofield Barracks supply wells and in one monitoring well (See Figures 1 through 4). Well diameters vary from 14 to 16 inches. Geophysical methods will consist of caliper, downhole television (TV), acoustic televiewer (or equivalent), logging, spinner (flow meter) and neutron density logs. Temperature, specific conductivity, and pH will be monitored with depth. The spinner logging will be performed in all five wells under pumping and nonpumping conditions. Resistivity, natural gamma, and spontaneous potential logs may also be run.

The Subcontractor will perform a dye trace study in the wells to determine groundwater flow direction, the effects of pumping on groundwater flow, the hydraulic connection between the wells, and the approximate capture zone of a pumping well.

The Subcontractor will perform a total of 16 packer tests in the five existing wells (Figure 3). Each packer test interval will be approximately 50 feet.

The Subcontractor will also perform geophysics in each of two new proposed wells, which will be constructed by a separate Subcontractor. Each of these wells will be 6 inches in diameter and approximately 800 feet deep. Geophysical methods for both wells will consist of caliper, downhole television (TV) and acoustic televiewer (or equivalent), spinner, and neutron density logs. Temperature, specific conductivity, and pH will be monitored with depth. Resistivity, natural gamma, and spontaneous potential logs may also be run. The Subcontractor will perform 2 packer tests in each of the two wells. Each packer test interval will be approximately 50 feet.
Harding Lawson Associates

May 4, 1992
92000,579.10
Mr. Lorin Runnells
Roscoe Moss
830 Aahu Street
Honolulu, HI 96819

Dear Mr. Runnells:

Geophysical Well Logging Services
Technical Support for Schofield Army Barracks
Island of Oahu, Hawaii

Documents in support of Harding Lawson Associates' (HLA's) request for your cost proposal for Geophysical Well Logging Services at Schofield Army Barracks are enclosed. These documents were telecopied to you on Friday, May 1, 1992. As indicated in HLA's telex copy, the Standard Form (SF) 1411 and supporting data, or Standard Form (SF 1412 and supporting data, must be received no later than 4:00 p.m., Tuesday, May 5, 1992. All other documentation must be received by Friday, May 12, 1992.

Award of a subcontract shall be based on the following criteria in descending order of importance:

- Cost
- References for projects of similar nature and magnitude
- Experience with HLA
- Qualifications of staff
- On-call availability
- Technical and managerial capability
- Health and safety training

A description of your organization as it pertains to each of the above evaluation factors is required. The responsive bidder must provide (1) evidence regarding its ability to comply with Occupational Health and Safety Administration (OSHA) health and safety requirements for response work at hazardous waste sites (29 Code of Federal Regulations [CFR] 1910.120) and (2) copies of certificates of insurance currently in force.

HLA reserves the right to reject any and all bids, to waive any informalities or irregularities therein, and it need not accept the lowest fixed-unit-price(s) bid.

HLA intends to award a subcontract on a fixed-unit-price not-to-exceed basis. For your review, the following documents are enclosed: (1) a Pro Forma Subcontract, (2) a proposed scope of work, (3) Flow-down Provisions, and (4) a bid proposal form. We plan to incorporate these documents as a basis for an agreement between HLA and the successful bidder. Please provide your quote on U.S. Government Standard Form 1411 and return with the completed Cost/Price Worksheet, Instructions for Preparing Cost/Price Worksheet, or SF 1412, and appropriate supporting documentation.
Directorate of Facilities Engineering

Department of Land & Natural Resources
Commission on Water Resource Management
State of Hawaii
P.O. BOX 621
Honolulu, Hawaii 96809

Gentlemen:

This is in regards to your letter of April 18, 1990 for your file "US ARMY OAHU".

As previously reported verbally to your staff, the summary omits reference to the Schofield battery of wells which was submitted with the others but apparently misplaced. To be specific, there are 4 wells at Schofield, 2000 GPM each; 2-1200 at Fort Shafter; 2-1200 in Kunia used for cooling, 2-1300 at Tripler, and a single 130, 55, and 20 GPM respectively at Kahuku, Kaena Point and Punamano. The last two are USAF property and are operated by us for them.

The enclosed sketch shows the relation of the Schofield wells. These numbers are our own local numbers.

If there are any questions, please call Mr. George Keys at 655-6383.

Sincerely,

John L. Motes II
Colonel, U.S. Army
Director of Facilities Engineering

Enclosure
Available well data: 8 wells, SCHOFIELD BATTERY

AUG 01, 1989

GROUND WATER INDEX - OAHU CODE 3

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See other side
Note: The sketch below shows wells and their current numbering system. The records for the various wells are conflicting and cannot be reconciled as to depth and diameter.

According to old records, one well was drilled and suffered a casing collapse, when another well was drilled nearby, it drifted into the original hole. We believe this is "old number 1" and now only contains an aquifer static level gage. There were apparently some other wells drilled at this time now called 2 and 3. All of these wells were probably drilled in 1936.

According to an old plan, another well is shown about 1938. We now call this #1 and it is probably well 06 in DLNR system.

Your #7 is the access shaft or tunnel, it produces no water. Your #10 is apparently the last one drilled in 1956 and is now our #4.