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

Gentlemen:

Request for Extension of Kawaiahao Church Water Withdrawal and Use Permit, Honolulu Ground Water Control Area, Oahu

Kawaiahao Church requests a 24-month extension of their Water Withdrawal and Use Permit. The Water Withdrawal and Use Permit, to replace their existing well and for an additional 0.010 mgd over their preserved use of 0.020 mgd, was approved by the Board and issued on October 28, 1983. The permit requires that the ground water source be developed within 24 months from the date the permit is issued. The decision to commence construction was delayed by an evaluation of the estimated construction costs coupled with a major design revision to the booster pumping system.

Kawaiahao Church has completed their plans and specifications and is currently soliciting construction bids.

RECOMMENDATION:


Respectfully submitted,

MANABU TAGOMORI
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairperson

Approved by the Board of Land & Natural Resources at the meeting held on

1-24-86

ITEM D-2
January 31, 1986

Mr. Robert Moore, Chairman  
Board of Trustees  
Kawaiahao Church  
957 Punchbowl Street  
Honolulu, Hawaii 96813

Dear Mr. Moore:

I am pleased to inform you that the Board of Land and Natural Resources has approved your request for a 24-month extension of Kawaiahao Church's Water Withdrawal and Use Permit.

Enclosed is a copy of the approved board submittal. Please note that the permit has been extended to October 28, 1987. All other conditions of the original permit remain in effect.

If you have any questions, please feel free to call me at 548-7533.

Sincerely,

MANABU TAGOMORI  
Manager-Chief Engineer

ES:ko  
Enc.  
cc: Austin, Tsutsumi & Assoc., Inc.
Chairperson and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Request for Extension of Kawaiahao Church Water Withdrawal and Use Permit, Honolulu Ground Water Control Area, Oahu

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Kawaiahao Church has completed their plans and specifications and is currently soliciting construction bids.

RECOMMENDATION:


Respectfully submitted,

[Signature]
MANABU TAGOMORI
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

[Signature]
SUSUMU ONO, Chairperson
DIVISION OF WATER AND LAND DEVELOPMENT

FROM: [Signature]
DATE: 12/13/73
FILE IN: [Indication]

TO: INITIAL: PLEASE: REMARKS:

- M. Tagomori
- T. Fujii
- H. Sakai
- H. Morimatsu
- A. Ching
- G. Morimoto
- G. Matsumoto
- P. Matsuo
- L. Asari
- D. Lum
- S. Samuels
- J. Sato
- D. Hamada
- L. Nanbu
- J. Siarot
- E. Yonamine
- K. Oshiro

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

Ed

J. Zait

Sub on

Rm. 118

Ed
14 November 1985

Department of Land and Natural Resources
State of Hawaii
P. O. Box 373
Honolulu, Hawaii 96809

Gentlemen:

Subject: Honolulu Ground Water Control Area
Water Withdrawal and Use Permit for
Kawaiaha'o Church Well No. 1851-73
Honolulu, Oahu

Pursuant to a phone call from Mr. Ed Sakoda of your Division of Water and Land Development (DOWALD) staff to our consultant engineer, Austin, Tsutsumi & Associates, Inc. (ATA) as a followup to ATA's October 28, 1985 letter to DOWALD, we hereby request an extension of 24 months to the subject permit which was issued on October 28, 1983 with a conditional revocation date 24 months thereafter. As stated in ATA's October 28, 1985 letter, construction bids are currently being solicited with commencement of construction anticipated within the next few months.

We apologize for the delay in proceeding with this project. However, evaluation of the estimated construction cost, coupled with a major design revision to the booster pumping system, had temporarily affected our decision to commence with construction.

Please do not hesitate to contact ATA if there is any need for discussion.

Very truly yours,

Robert Moore, Chairman
Board of Trustees
Kawaiaha'o Church

RM/cy
cc: Austin, Tsutsumi & Assoc., Inc.
    Spencer Mason Partnership
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**Remarks:**

Ed Brief me on this.
WATER RESOURCES & FLOOD CONTROL BRANCH
Division of Water and Land Development

FROM: Ed

TO: INITIAL:

✓ T. Fujii
✓ D. Lum
✓ E. Sakoda
✓ D. Nakano
✓ J. Menor
✓ M. Ohye

S. Samuels
W. Koyanagi
D. Hamada
K. Oshiro
M. Tagomori
H. Sakai
H. Morimatsu
J. Sato

DATE: 10/28/85
FILE IN: MB 0104W 1851-09

PLEASE:

See Me
Call
Review & Comment
Take Action
Investigate & Report
Draft Reply
Acknowledge Receipt
Type Draft
Type Final
Xerox
File
Mail

cc:

REMARKS:

Received a telephone request from Kanawaha Church to extend their Water Use Permit (if applicable) today, 10/28/85. Asked them to submit written request for the record.

Called Ivan back (11/07/85) and asked him to send in request to extension.

FOR YOUR:

Approval
Signature
Information

WIP? Sent copy of WIP

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

Attention: Mr. Ed Sakoda  

Gentlemen:  

Subject: Kawaiahao Church Well 1851-73,  
Honolulu, Hawaii - TMK: 2-1-3:17  

This is to confirm the phone discussion between Mr. Ed Sakoda and the undersigned regarding the above subject. It is our understanding that re-application for the Well Drilling Permit and the Permit to Withdraw Water for Beneficial Use for the subject well, which was initially granted by DOWALD in October of 1983, would not be required due to the current effort by Kawaiahao Church to solicit construction bids based on our recently completed plans and specifications.  

Please do not hesitate to contact the undersigned if there is any need for discussion.  

Very truly yours,  

AUSTIN, TSUTSUMI & ASSOCIATES, INC.  

By IVAN K. NAKATSUKA, P.E.  
Chief Environmental Engineer  

REPLY TO:  
SUITE 900, 745 FORT STREET MALL • HONOLULU, HAWAII 96813  
PHONE 808/533-3646 • CABLE ADDRESS: "ATAHL" • TELEX: 723-8347 • ATAHL HR  
OFFICES IN:  
HONOLULU, HAWAII  
KAMALI‘I, MAUI • Hilo, HAWAII
HONOLULU GROUND WATER CONTROL AREA

WATER WITHDRAWAL and USE PERMIT

for

Kawaiahao Church Well No. 1851-73
Honolulu, Oahu

TO: Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

Permission is hereby granted to Kawaiahao Church to withdraw and use water from Well No. 1851-73 located in Honolulu, Oahu, subject to all requirements of Chapter 177, HRS, Chapter 166, Title 13, the administrative rules of the Department of Land and Natural Resources and the following additional conditions:

1. 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.

2. The water to be withdrawn under this permit shall be a total of 0.03 million gallons per day (0.02 mgd preserved use plus an additional 0.01 mgd permitted use), averaged annually, for domestic and irrigation use.

3. 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.

4. The use authorized by the permit must not interfere substantially and materially with existing individual household uses and existing preserved uses.

5. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

6. This permit may be suspended or revoked, in accordance with Chapter 166.
7. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.

8. 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.

The Board of Land and Natural Resources may declare this permit null and void, if it determines that the conditions of this permit are not being met or if the development of the ground water source is not completed within 24 months from the date the permit is issued.

SUSUMU ONO, Chairperson of the Board

Date of issuance

10/28/83
October 13, 1983

Mr. Sam Mokuahi, Trustee  
Kawaiahao Church  
957 Punchbowl Street  
Honolulu, Hawaii 96813

Dear Mr. Mokuahi:

The Board of Land and Natural Resources in August, approved the issuance of a Water Use Permit to Kawaiahao Church for a new replacement well. Since the well is located in the Honolulu Ground Water Control Area, the Department requires the applicant to submit a $100 non-refundable filing fee for a Water Use Permit and $100 for a Well Drilling Permit.

We will issue the permits upon receipt of the required filing fees.

Very truly yours,

ROBERT T. CHUCK  
Manager-Chief Engineer

ES:ko  
cc: Mr. Ivan Nakatsuka, Austin,  
Tsutsumi & Associates, Inc.
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<td>George Miyashiro</td>
<td>Xerox distributed</td>
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<td>Harold Sakal</td>
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<td>Noboru Kaneshiro</td>
<td>Elsie Yonamine</td>
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<tr>
<td>Edwin Sakoda</td>
<td>Kay Oshiro</td>
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</table>

2 checks attached.
OK, let's begin.
October 13, 1983

Mr. Sam Mokuahi, Trustee
Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

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Very truly yours,

ROBERT T. CHUCK
Manager-Chief Engineer

ES:ko
cc: Mr. Ivan Nakatsuka, Austin, Tsutsumi & Associates, Inc.
August 16, 1983

Mr. Susumu Ono, Chairperson
Board of Land and
Natural Resources
State of Hawaii
P. O. Box 621
Honolulu, Hawaii 96809

Dear Mr. Ono:

Subject: Kawaiahao Church Replacement Well

Thank you for sending us the notice of a public hearing on the proposed replacement well at Kawaiahao Church.

We have no objections to the drilling of a replacement well for Well No. 1851-04 or to the increased usage of 0.010 mgd over the original 0.020 mgd.

Very truly yours,

KAZU HAYASHIDA
Manager and Chief Engineer
Chairperson and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Kawaiahao Church Water Use Permit Application,
Honolulu Ground Water Control Area

The applicant, Kawaiahao Church, has submitted a Water Use Permit Application to drill a new well and to withdraw 30,000 gallons per day (gpd) for domestic and irrigation uses from the Moanalua-Kaimuki Subarea of the Honolulu Ground Water Control Area.

The new well will replace an existing well (State No. 18J1-09) which has a preserved use of 20,000 gpd, certified by the Board of Land and Natural Resources on September 11, 1981. The net increase in withdrawal requested by the applicant is 10,000 gpd or 0.010 mgd.

Tabulated below is the current status of withdrawals for the Moanalua-Kaimuki Subarea:

<table>
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<tr>
<th>Description</th>
<th>Quantity</th>
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<td>Sustainable yield</td>
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<td>Preserved use</td>
<td>41.827 mgd</td>
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<td>Permits issued</td>
<td>5.350 mgd</td>
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<tr>
<td>Total withdrawals</td>
<td>47.177 mgd</td>
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<tr>
<td>Additional available</td>
<td>7.823 mgd</td>
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Analysis of this application indicates that the additional withdrawal of 10,000 gpd requested is small, relative to the available ground water resource in the Moanalua-Kaimuki Subarea. Special conditions recommended for the Water Use Permit should include the sealing of the existing well in accordance with State procedures and the installation of an approved flowmeter on the new well.

RECOMMENDATION:

That the Board approve the issuance of a Water Use Permit to Kawaiahao Church to drill a new replacement well and to withdraw 30,000 gpd for domestic and irrigation uses, subject to any special conditions and applicable laws and rules.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairperson

ITEM D-1
Chairperson and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

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RECOMMENDATION:

That the Board approve the issuance of a Water Use Permit to Kawaiahao Church to drill a new replacement well and to withdraw 30,000 gpd for domestic and irrigation uses, subject to any special conditions and applicable laws and rules.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairperson

Approved by the Board of Land & Natural Resources at the meeting held on 8/12/83

ITEM D-1
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**Type of Ad**
- Retail
- Hawaii General
- Classified
- Legal
- General

**Star-Bulletin**
- 11: Retail
- 12: Hawaii General
- 14: Classified
- 15: Legal
- 18: General

**Advertiser**
- 21: Retail
- 22: Hawaii General
- 24: Classified
- 25: Legal
- 26: General

**Sunday**
- 31: Retail
- 32: Hawaii General
- 34: Classified
- 35: Legal
- 36: General

**Unit**
- 51: Retail
- 52: Hawaii General
- 54: Classified
- 55: Legal
- 56: General

MAKE CHECKS PAYABLE TO: HAWAII NEWSPAPER AGENCY, INC., AGENT
IN THE MATTER OF
PUBLIC NOTICE
Consideration of a Water Use Permit in the Honolulu Ground Water Control Area

STATE OF HAWAII,
CITY AND COUNTY OF HONOLULU.

Hiroko Nakamura, being duly sworn, deposes and says, that she is Clerk of the HAWAII NEWSPAPER AGENCY, INC., agent for GANNETT PACIFIC CORPORATION, publishers of THE HONOLULU STAR-BULLETIN, a daily newspaper published in the City and County of Honolulu, State of Hawaii; that the ordered publication in the above entitled matter of which the annexed is a true and correct printed notice, was published one time in said daily newspaper, commencing on the 1st day of August, 1983, and ending on the 1st day of August, 1983 (both days inclusive), to wit, on August 1, 1983,

and that affiant is not a party to or in any way interested in the above entitled matter.

Subscribed and sworn to before me this 1st day of August, A. D. 1983

Barbara M. Bzczek
Notary Public of the First Judicial Circuit,
State of Hawaii
My commission expires July 25, 1998
DEPARTMENT OF LAND AND NATURAL RESOURCES

Division of Water and Land Development

TO:

Chairman
Deputy to Chairman
Board Member
Deputy Attorney General
Planning Office
State Parks
Aquatic Resources
Forestry & Wildlife
Land Management
Aquaculture Dev. Program

FOR:

Signature
Approval
Approval as to Form
Approval & Transmittal to Governor
Comment
Recommendation
Investigation & Report
Appropriate Action
Retention
Return

REMARKS: Notice to be published in Star Bulletin re Water Line Permit to Kawailoa Church

Signature

July 27, 1983
CONSIDERATION OF A WATER USE PERMIT IN THE
HONOLULU GROUND WATER CONTROL AREA

Public Notice

All interested parties are hereby notified that the Board of Land and Natural Resources (BLNR) plans to consider and act on the following application for a Water Use Permit in the Honolulu Ground Water Control Area at its regularly scheduled meeting on Friday morning (9:00 a.m.), August 12, 1983, Room 132, Kalanimoku Building, 1151 Punchbowl Street, Honolulu, Hawaii.

Kawaiahao Church Well 1851-73. Kawaiahao Church requests permission to replace its existing well (State Well No. 1851-09) and to withdraw an additional 0.01 million gallons per day for irrigation and domestic use.

For further information, please contact the Division of Water and Land Development at 548-7539.

State of Hawaii
BOARD OF LAND AND NATURAL RESOURCES

Date: July 28, 1983
Publish in: Honolulu Star Bulletin issue of August 1, 1983
Send copy of notice to following:

Mr. Sam Mokuahi, Trustee  
Kawaiaha'o Church  
957 Punchbowl Street  
Honolulu, Hawaii 96813

Ivan K. Nakatsukasa, Chief Environmental Engineer  
Austin, Tsutsumi & Associates, Inc.  
745 Fort St. Mall, Suite 900  
Honolulu, Hawaii 96813

Mr. Kazu Hayashida  
Honolulu BWS

7/28 - sent
**State of Hawaii**

**Purchase Order**

**Department of Land & Natural Resources**

**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**

685 Kapiolani Blvd.

Hon., HI 96813

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.

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**PAYMENT**

Publication of "Public Notice" attached herewith

"Consideration of a Water Use Permit in the Honolulu Ground Water Control Area"


(please call 54807019 if any questions)

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**DATE**

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**DELIVERY ADDRESS**

**BILLING ADDRESS**

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**QUANTITY UNITS AMOUNT**

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**REQUISITION NO.**

08004

**DATE**

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**TELEPHONE**

**VOUCHER AUTHENTICATED BY**

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

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**SUMMARY**

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**COPY #7 - DEPARTMENT**
June 24, 1983

Mr. Sam Mokuahi, Trustee
Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Mokuahi:

This is to acknowledge receipt of your applications for a Well Drilling Permit and a Permit to Withdraw Water for Beneficial Use.

Department of Land and Natural Resources Chapter 166, Control of Ground Water Use in the State of Hawaii, require non-refundable filing fees of $100 for both Permits to Withdraw Water for Beneficial Use and for Well Drilling Permits in a Designated Ground Water Control Area. Please submit the filing fees at your earliest convenience. In the meantime, my staff will be processing the applications for Board action.

Very truly yours,

ROBERT T. CHUCK
Manager-Chief Engineer

ES:ko
APPLICATION FOR: (check one)
☑ PERMIT TO WITHDRAW WATER FOR BENEFICIAL USE
☐ PERMIT TO SUPPLY WATER FOR BENEFICIAL USE

Instructions: Fill out, sign, and send application with pertinent attachments to Dept. of Land & Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809. A non-refundable filing fee of $100 is required, excepting military, federal, state, and local government agencies.

1. NAME OF APPLICANT: Kawaiahao Church
   Address: Honolulu, HI. 96813 Phone: 536-911
2. REQUESTED BENEFICIAL USE OF WATER:
   ☑ Domestic ☐ Municipal ☐ Military ☐ Agricultural ☐ Industrial ☐ Other
   (specify)
   Appropriately describe nature and purpose of requested use: Domestic consumption and irrigation usage for church facilities. Quantity for irrigation should be in excess of 90% of total usage.
   Proposed commencement date of water use: 1984
3. REQUESTED AMOUNT OF WITHDRAWAL OR SUPPLY:
   Average Annual 11.0 mgd; Maximum Month ___ mgd; Maximum Day 0.100 mgd
   Appropriately describe schedule or times of taking requested withdrawal:
   Withdrawal as necessary to accommodate church activities
4. NATURE AND TERM OF REQUESTED PERMIT: ☑ Temporary ☐ Permanent
   Requested period of permit N/A
5. PROPOSED SOURCE OF WATER SUPPLY:
   ☐ Existing source ☐ Modification of existing source ☑ New source
   Briefly describe existing or proposed source and any related facilities and submit map, plot plan, and plans or drawings of source of supply: Proposed 8-inch well will replace existing well (State Well No. 1851-09) which has deteriorated to a stage where replacement is warranted.
   Commencement Date: End of 1983
   Completion Date: Middle of 1984
6. ASSESSMENT OF REQUESTED WATER USE OR SUPPLY
   In a separate attachment to this application, applicant must provide a written assessment addressing the desirability of issuing the requested permit, including such considerations as the availability of water, the beneficial purpose of the proposed water use, and the impact, if any, of the proposed water use on existing permitted uses, preserved uses, and individual household uses.
   Signature: [Signature]
   Water User or Supplier: [Signature]
   Date: 6-17-83
   Owner of Water Source: [Signature]
   Date: 6-17-83

In accordance with Department Regulation No. 9, every permit approved and issued by the Board of Land & Natural Resources shall be for a specified period of time, for a specified beneficial use, subject to suspension and revocation, and subject to the shortage and emergency powers of the Board. Consideration of applications for a permit shall include: availability of water, beneficial purpose of water use, non-impairment of the most beneficial use and development of the water resources in the designated area, and no substantial and material interference with existing uses of water.

For Official Use:
Docket No.
180 days
Board Approved
Disapproved
Well No. 1851-73
ASSESSMENT OF REQUESTED WATER USE FOR PROPOSED KAWAIHAO CHURCH WELL

The maximum withdrawal rates assigned by DLNR to the existing Kawaiahao Church Well (State Well No. 1851-09) are 7.3 million gallons per year (20,000 gpd) for average annual and 0.100 mgd (100,000 gpd) for maximum day. These rates are not based on any recent recorded flow rates but rather extrapolated from Board of Water Supply (BWS) records between 1956 and 1965 when the average daily flow rate was 15,000 gpd. Since that time, a new automatic irrigation system was installed for the church grounds and, consequently, water usage has increased. Based on a minimal irrigation application rate of 1/4-inch per day and a nominal rate for average daily domestic consumption of less than 3,000 gpd, it is estimated that water usage by the church, as totally provided by the existing well, is about 30,000 gpd. This estimation is reinforced by BWS's record of metered water flow during the period of 1967-1971 when the water source was transferred from the well system to BWS's municipal system. These records indicate an average daily flow range of 21,000-35,000 gpd on an annual basis. The existing irrigation system was installed in 1966, which is the reason for the conversion to the BWS source from 1967-1971 and a recorded increase in the usage rate during this period. Since 1972 the water source has been transferred back to the well system. Although records of the flow rate from 1972 to the present were not maintained, it is reasonable to assume that, based on the fact that changes to the Church's irrigation practices and expansion to the church facilities have not occurred, the present water usage rate should be similar to the rates recorded between 1967 and 1971. The requested average annual withdrawal rate of 11.0 MG (30,000 gpd) in Item No. 3 of the permit application to which this assessment is attached, is therefore justified by the reason presented hereinbefore that the existing well has been producing this amount of water over the past 17 years.

Continued development of the groundwater source by an on-site well to service the church facilities is historically significant to Kawaiahao Church. The name Ka Wai a Ha'o translates to mean "the fresh water pool of Ha'o". According to recorded Hawaiian history, Chiefess Ha'o was the queen of Oahu who bathed in the sacred pool at the site of the existing church grounds.
HONOLULU GROUND WATER CONTROL AREA

WATER WITHDRAWAL and USE PERMIT

for

Kawaiahao Church Well No. 1851-73
Honolulu, Oahu

TO: Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

Permission is hereby granted to Kawaiahao Church to withdraw and use water from Well No. 1851-73 located in Honolulu, Oahu, subject to all requirements of Chapter 177, HRS, Chapter 166, Title 13, the administrative rules of the Department of Land and Natural Resources and the following additional conditions:

1. 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.

2. The water to be withdrawn under this permit shall be a total of 0.03 million gallons per day (0.02 mgd preserved use plus an additional 0.01 mgd permitted use), averaged annually, for domestic and irrigation use.

3. 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.

4. The use authorized by the permit must not interfere substantially and materially with existing individual household uses and existing preserved uses.

5. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

6. This permit may be suspended or revoked, in accordance with Chapter 166.
Kawaiahao Church
Water Withdrawal & Use Permit

7. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.

8. 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.

The Board of Land and Natural Resources may declare this permit null and void, if it determines that the conditions of this permit are not being met or if the development of the ground water source is not completed within 24 months from the date the permit is issued.

SUSUMU ONO, Chairperson of the Board

10/28/83
Date of Issuance
HONOLULU GROUND WATER CONTROL AREA

WELL DRILLING PERMIT

for

Kawaiahao Church Well No. 1851-73
Honolulu, Oahu

TO: Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

In accordance with Chapter 166 of Title 13, "Rules for The Control Ground Water Use in the State of Hawaii," your application to drill State Well No. 1851-73 is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of the well.

2. Pumping test data shall be submitted to the Division of Water and Land Development within 60 days after testing of the well.

3. Monthly pumpage records shall be submitted after the well is put into production.

4. Upon completion of the well, submit an "as-built" drawing of the well and a map showing the exact location of the well.

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

SUSUMU ONO
Chairperson of the Board

Date of Issuance

10/28/83

Enc. Driller's Report Form

bcc: USGS

Dept. of Health
Honolulu BWS
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

June 10, 1982

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

Gentlemen:

RESUBMITAL
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 30 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 the 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

APPROVED FOR SUBMITTAL

SUSUMU ONO, Chairman

Approved by the Board of Land & Natural Resources at the meeting held on

ITEM D-1

6/10/82

B12
Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

September 11, 1981

Gentlemen:

Certification of Ground Water Withdrawals and Uses,
Honolulu Ground Water Control Area, Cahu

The Honolulu Ground Water Control Area was designated by the Board of
Land and Natural Resources on February 27, 1981 under authority of Chapter 177,
HRS, and Chapter 166 of Title 13, Administrative Rules entitled "Rules for the
Control of Ground Water Use in the State of Hawaii". The Department's regulatory
procedures provide for water users to declare their existing water uses within a
ninety-day period which ended June 4, 1981 and allows the Board 180 days to
certify the declared uses.

The recommended certification of total annual, average daily, and maximum
daily withdrawals for individual wells and/or well fields is tabulated in the attach-
ment. "Certification of Ground Water Withdrawals and Uses, Honolulu Ground
Water Control Area", for the Moanalua-Kaimuki Subarea and Waialae-Hawaii Kai
Subareas. A comparison of the recommended quantity for certification and the
sustainable yield adopted by the Board on July 24, 1981 is tabulated below:

<table>
<thead>
<tr>
<th>Subarea</th>
<th>Sustainable Yield (mgd)</th>
<th>Recommended Certification (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moanalua-Kaimuki</td>
<td>$5</td>
<td>41.827</td>
</tr>
<tr>
<td>Waialae-Hawaii Kai</td>
<td>5</td>
<td>1.100</td>
</tr>
</tbody>
</table>

The remaining ground water supplies may be withdrawn by obtaining
permits from the Board of Land and Natural Resources.

RECOMMENDATION:

That the Board certify the existing withdrawals and uses for each well
tabulated on the attached "Certification of Ground Water Withdrawals and Uses,
Honolulu Ground Water Control Area" dated September 11, 1981, subject to any
special conditions and applicable laws, rules and regulations.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APP�ROVED FOR SUBMITTAL:
SUSUMU ONO, Chairman

Approved by the Board of Land & Natural Resources at the meeting held on

ITEM D-4
DEPARTMENT OF LAND AND NATURAL RESOURCES
CERTIFICATION OF GROUND WATER WITHDRAWALS AND USES
Honolulu Ground Water Control Area

<table>
<thead>
<tr>
<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Source Use</th>
<th>5-yr Ave Withdrawal</th>
<th>Preserved Use</th>
<th>Maximum Daily Use</th>
<th>Total Annual Use</th>
<th>Average Daily Use</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MOANALUA-KAIMUKI Subarea</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board of Water Supply</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kaimuki Station</td>
<td>1948-03 to 10</td>
<td>1</td>
<td>Mun.</td>
<td>22.37</td>
<td>3.69</td>
<td>Mun.</td>
<td>14.37</td>
<td>1,516.85</td>
</tr>
<tr>
<td>Palolo Well</td>
<td>1947-01</td>
<td>1</td>
<td>Mun.</td>
<td>1.51</td>
<td>1.31</td>
<td>Mun.</td>
<td>1.70</td>
<td>476.15</td>
</tr>
<tr>
<td>Wilder Station</td>
<td>1949-13 to 16</td>
<td>1</td>
<td>Mun.</td>
<td>10.08</td>
<td>5.75</td>
<td>Mun.</td>
<td>10.08</td>
<td>2,098.75</td>
</tr>
<tr>
<td>Beretania Station</td>
<td>1951-12, 13, 24, 31 to 35, 87</td>
<td>9</td>
<td>Mun.</td>
<td>22.56</td>
<td>5.64</td>
<td>Mun.</td>
<td>18.14</td>
<td>2,423.60</td>
</tr>
<tr>
<td>Kalili Pump</td>
<td>1952-08 to 08, 18 to 29, 22</td>
<td>8</td>
<td>Mun.</td>
<td>14.11</td>
<td>4.93</td>
<td>Mun.</td>
<td>11.82</td>
<td>1,702.95</td>
</tr>
<tr>
<td>Kalili Shaft</td>
<td>2052-08</td>
<td>1</td>
<td>Mun.</td>
<td>17.28</td>
<td>0.11</td>
<td>Mun.</td>
<td>17.28</td>
<td>2,960.15</td>
</tr>
<tr>
<td>Moulalo Station</td>
<td>2152-10 to 12</td>
<td>3</td>
<td>Mun.</td>
<td>6.01</td>
<td>3.29</td>
<td>Mun.</td>
<td>6.01</td>
<td>1,202.85</td>
</tr>
<tr>
<td>Subtotal (BWS Wells)</td>
<td></td>
<td>34</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>70,230</td>
<td>12,271.30</td>
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<td>Private Users</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amorin H.C &amp; D.</td>
<td>2052-06</td>
<td>1</td>
<td>Ind.</td>
<td>0.576</td>
<td>0.139</td>
<td>Ind.</td>
<td>0.576</td>
<td>59.74</td>
</tr>
<tr>
<td>Army - Ft. Shafter</td>
<td>2052-10, 11</td>
<td>2</td>
<td>Dom.</td>
<td>3.6</td>
<td>1.035</td>
<td>Dom.</td>
<td>3.6</td>
<td>377.70</td>
</tr>
<tr>
<td>Army - Tripler</td>
<td>1953-07, 08</td>
<td>1</td>
<td>Ind.</td>
<td>1.555</td>
<td>0.099</td>
<td>Dom.</td>
<td>1.555</td>
<td>222.28</td>
</tr>
<tr>
<td>Bishop Trust</td>
<td>1951-26</td>
<td>1</td>
<td>Ind.</td>
<td>1.15</td>
<td>0.06</td>
<td>Ind.</td>
<td>1.15</td>
<td>21.90</td>
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<tr>
<td>Del Monte Corp.</td>
<td>1953-13</td>
<td>1</td>
<td>Ind.</td>
<td>1.296</td>
<td>0.44</td>
<td>Ind.</td>
<td>1.296</td>
<td>99.86</td>
</tr>
<tr>
<td>Castle &amp; Cooke Foods</td>
<td>1953-11, 12, 20, 21</td>
<td>4</td>
<td>Ind.</td>
<td>Nat. flow</td>
<td>2.0</td>
<td>Ind.</td>
<td>Nat. flow</td>
<td>7.717</td>
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<tr>
<td>Hawaii Meat Co., Ltd.</td>
<td>2053-09</td>
<td>1</td>
<td>Ind.</td>
<td>0.144</td>
<td>0.092</td>
<td>Ind.</td>
<td>0.144</td>
<td>19.93</td>
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<tr>
<td>Honolulu Gas Co.</td>
<td>1953-14</td>
<td>1</td>
<td>Ind.</td>
<td>14.6</td>
<td>2.5</td>
<td>Ind.</td>
<td>14.6</td>
<td>912.50</td>
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<tr>
<td>Honolulu Int. C.C.</td>
<td>2054-04</td>
<td>1</td>
<td>Irr.</td>
<td>Nat. flow</td>
<td>0.346</td>
<td>Irr.</td>
<td>No data</td>
<td>126.29</td>
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<td>Kamehameha Schools</td>
<td>2052-07, 11</td>
<td>2</td>
<td>Dom.</td>
<td>1.728</td>
<td>0.199</td>
<td>Dom.</td>
<td>1.728</td>
<td>68.88</td>
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<tr>
<td>Kawaihae Church</td>
<td>1951-06</td>
<td>1</td>
<td>Irr.</td>
<td>0.100</td>
<td>No data</td>
<td>Irr.</td>
<td>0.100</td>
<td>7.30</td>
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<tr>
<td>Kukui Koko</td>
<td>1949-19</td>
<td>1</td>
<td>Dom.</td>
<td>0.576</td>
<td>0.339</td>
<td>Dom.</td>
<td>0.576</td>
<td>12.84</td>
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<td>Love's Bakery</td>
<td>1949-18</td>
<td>1</td>
<td>Ind.</td>
<td>No data</td>
<td>0.043</td>
<td>Ind.</td>
<td>No data</td>
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<td>MTL, Inc.</td>
<td>1951-20</td>
<td>1</td>
<td>Ind.</td>
<td>No data</td>
<td>No data</td>
<td>Ind.</td>
<td>No data</td>
<td>0.83</td>
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<td>Pea Island</td>
<td>1950-09</td>
<td>1</td>
<td>Oth.</td>
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<td>No data</td>
<td>Oth.</td>
<td>No data</td>
<td>7.30</td>
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<td>1951-07</td>
<td>1</td>
<td>Dom.</td>
<td>0.043</td>
<td>No data</td>
<td>Dom.</td>
<td>0.043</td>
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<td>Pacific Laundry</td>
<td>1951-08</td>
<td>1</td>
<td>Dom.</td>
<td>0.576</td>
<td>No data</td>
<td>Dom.</td>
<td>0.576</td>
<td>60.50</td>
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<td>Palama Settlement</td>
<td>1952-15</td>
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<td>Oth.</td>
<td>No data</td>
<td>No data</td>
<td>Oth.</td>
<td>No data</td>
<td>8.76</td>
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<td>Punahou School</td>
<td>1949-10</td>
<td>1</td>
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<td>0.142</td>
<td>Dom.</td>
<td>0.720</td>
<td>51.82</td>
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<td>Queen's Mod. Coll</td>
<td>1951-04</td>
<td>1</td>
<td>Dom.</td>
<td>1.880</td>
<td>0.237</td>
<td>Dom.</td>
<td>1.880</td>
<td>84.50</td>
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<td>S.M. Damon Estate</td>
<td>2152-02</td>
<td>1</td>
<td>Oth.</td>
<td>0.144</td>
<td>0.021</td>
<td>Oth.</td>
<td>0.144</td>
<td>7.66</td>
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<td>Subtotal (Private Users)</td>
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<td>27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>27,048</td>
<td>8,007</td>
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<td><strong>TOTAL - Moanalua-Kaimuki Subarea</strong></td>
<td></td>
<td>61</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>121,774</td>
<td>41,627</td>
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<tr>
<td><strong>NAALAE-HILOA KAI Subarea</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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<td>Board of Water Supply</td>
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<td></td>
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<tr>
<td>Aina Koa</td>
<td>1946-01</td>
<td>1</td>
<td>Mun.</td>
<td>0.504</td>
<td>0.40</td>
<td>Mun.</td>
<td>0.504</td>
<td>146.00</td>
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<td>Waialua Iki Station</td>
<td>1946-02</td>
<td>1</td>
<td>Mun.</td>
<td>0.504</td>
<td>0.19</td>
<td>Mun.</td>
<td>0.504</td>
<td>60.35</td>
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<td>Waialua Shaft</td>
<td>1947-02</td>
<td>1</td>
<td>Mun.</td>
<td>2.899</td>
<td>0.24</td>
<td>Mun.</td>
<td>2.899</td>
<td>87.60</td>
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<td>Subtotal (BWS Wells)</td>
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<td>3</td>
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<td></td>
<td></td>
<td></td>
<td>3.968</td>
<td>0.83</td>
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<tr>
<td>Private User</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Waialua Country Club</td>
<td>1646-01</td>
<td>1</td>
<td>Irr.</td>
<td>0.064</td>
<td>0.270</td>
<td>Irr.</td>
<td>0.064</td>
<td>89.55</td>
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<td><strong>TOTAL - Waialua-Hiloa Kai Subarea</strong></td>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4.752</td>
<td>1.100</td>
</tr>
</tbody>
</table>
February 19, 1982

Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

Gentlemen:

Honolulu Ground Water Control Area

We acknowledge receipt on February 4, 1982, your Declaration of Existing Water Withdrawal and Use in the Honolulu Ground Water Control Area. Our staff will review the data and may contact you for a field inspection of your well.

We appreciate your filing the declaration of existing water use.

Very truly yours,

ROBERT T. CHUCK
Manager-Chief Engineer

ES:ko
WELL INFORMATION SHEET

Instructions: The following information is currently on file at the Department of Land and Natural Resources, Division of Water and Land Development. If there are any changes, please make the necessary corrections and return to the Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Well Number: 1851-09

Name or Location: Kawahao Church

Owner or User: Kawahao Church

Year drilled: 1893

Driller: Pinkham

Ground Surface Elevation in feet referenced to mean sea level: 14

Casing Diameter in inches: 4

Total depth of well in feet: 765

Casing depth in feet: 716

Major Use:
- □ Domestic
- □ Disposal
- □ Municipal
- □ Unused
- □ Lost
- □ Irrigation
- □ Sealed
- □ Recharge
- □ Industrial
- □ Observation
- □ Other (specify)

Static Water Level in feet: 24.7

Chloride content of water in milligrams/liter: 48-80

Installed pump capacity in million gallons per day: 0.10

Average annual draft in million gallons per day: ≈ 0.03 mgd
DECLARATION OF EXISTING WATER WITHDRAWAL AND USE
Honolulu and Waialua Ground Water Control Areas

Instructions: This form must be properly completed, signed, and submitted for each individual well or connected battery of wells on or before June 4, 1981, 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 KAWAIHAO CHURCH Mailing address 957 Punchbowl Street
   Phone: 536-9144 or 537-5635

2. WATER USER'S □ WELL □ CONNECTED BATTERY OF WELLS:
   User's Well Name and Location 957 Punchbowl St. Tax Map Key: 2-1-032-017
   Number(s) Pump or natural flow capacity (gpm) Capacity determined by flowmeter, nameplate, orifice, etc. (specify) Year pump inst./modified
   1 Pump

3. BENEFICIAL USE OF WATER:
   (a) Major Use: □ Municipal □ Agriculture □ Military □ Industrial □ Domestic □ other
      (specify) SUMPTION 6 (specify)
   (b) Minor Uses:
   (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: □ Metered flow □ Nameplate pump capacity □ Orifice □ Weir □ Other (specify) Records kept
   (b) Records available (in million gallons per day, three decimal places):
      | Year | Monthly |
      |      | Average |
      | Jan. |      |      |      |      |      |
      | Feb. |      |      |      |      |      |
      | Mar. |      |      |      |      |      |
      | Apr. |      |      |      |      |      |
      | May  |      |      |      |      |      |
      | June |      |      |      |      |      |
      | July |      |      |      |      |      |
      | Aug. |      |      |      |      |      |
      | Sep. |      |      |      |      |      |
      | Oct. |      |      |      |      |      |
      | Nov. |      |      |      |      |      |
      | Dec. |      |      |      |      |      |
      | Yr. total |      |      |      |      |      |
      | Mo. Ave |      |      |      |      |      |
      | 5-year average: mgd, highest day use mgd on 19 |
   (c) For Agriculture Use only: description of withdrawal schedule (include times of day and days of week):

5. WELL DESCRIPTION:
   On the attached sheet, 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 the corrected sheet.

Declaration: 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 our knowledge and belief, it is true, correct, and complete.

Water User: KAWAIHAO CHURCH (print) (signature) Date: 2-2-81

Landowner of Well Site: KAWAIHAO CHURCH (print) (signature) Date: 2-2-81

For Official Use: Last day to certify Amount certified Date certified

WELL(S) No. 1851-09
July 31, 1981

Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

Gentlemen:

Honolulu Ground Water Control Area

We would like to remind you that if you are currently using ground water from any well or spring source, you are required to fill out, sign, and return the Declaration of Existing Water Withdrawal and Use form to the Department of Land and Natural Resources. We are presently in the process of certifying existing uses and need your input to do a more thorough job. Please send the form in as soon as possible.

If you have any questions or need help in filling out the form, please call the Division of Water and Land Development at 548-7619. Thank you for your cooperation.

Very truly yours,

[Signature]

ROBERT T. CHUCK
Manager, Chief Engineer

NI:ko
## Monthly Pumpage in Million Gallons

### Oahu Well 96, Kawaiahao Church, Kawaiahao Church grounds

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<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
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**NO DISCHARGE AFTER SEPT. 1966**

Records furnished by O&O, Board of Water Supply.
March 16, 1981

Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

On February 27, 1981, the Board of Land and Natural Resources designated the Honolulu and Waialua Districts as the Honolulu Ground Water Control Area and the Waialua Ground Water Control Area. By this action, the Department of Land and Natural Resources is now responsible for regulating all uses of ground water in these areas.

If you are currently using ground water from any well or spring source, you are required to declare such water use to the Department of Land and Natural Resources if you wish to continue your present use. Specifically, you must fill out, sign, and return the enclosed Declaration of Existing Water Withdrawal and Use form to the Department by June 4, 1981, in accordance with Regulation 9 of the Department of Land and Natural Resources.

According to our records, you have / well(s) located on your property (Tax Map Key ). Please complete the enclosed form and return it as soon as possible to: Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

If you have any questions or need help in filling out the form, please call the Division of Water and Land Development at 548-7619. Thank you for your cooperation.

Very truly yours,

SUSUMU ONO
Chairman of the Board

Enc.
WELL INFORMATION SHEET

Instructions: The following information is currently on file at the Department of Land and Natural Resources, Division of Water and Land Development. If there are any changes, please make the necessary corrections and return to the Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

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<tr>
<td>Owner or User:</td>
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<tr>
<td>Year drilled:</td>
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<td>Driller:</td>
<td>Pinkham</td>
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<td>Casing Diameter in inches:</td>
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<td>Total depth of well in feet:</td>
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</tr>
<tr>
<td>Casing depth in feet:</td>
<td>715</td>
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<td>Major Use:</td>
<td>☐ Domestic  ☐ Disposal  ☐ Unused  ☐ Lost  ☐ Irrigation  ☐ Sealed  ☐ Recharge  ☐ Industrial  ☐ Observation  ☐ Other (specify)</td>
</tr>
<tr>
<td>Static Water Level in feet:</td>
<td>24.7</td>
</tr>
<tr>
<td>Chloride content of water in milligrams/liter:</td>
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<tr>
<td>Installed pump capacity in million gallons per day:</td>
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<tr>
<td>Average annual draft in million gallons per day:</td>
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Mapped, edited, and produced by the Geological Survey
Control by USGS, USC&GS, and Hawaii State Survey
Topography by photogrammetric methods from aerial photographs
taken 1953 and planimetric surveys 1927-1928. Revised from aerial
Selected hydrographic data compiled from USC&GS Charts 4108 (1955),
4131 (1967), and 4132 (1966).
This information is not intended for navigational purposes.
Polyconic projection. Old Hawaiian datum.
10,000 foot grid based on Hawaiian State System, Zone 3.
1000-meter Universal Transverse Mercator grid ticks.
Zone 4 shown in blue.

Well No. 1851-09
WELL ABANDONMENT PERMIT

for

Kawaiahao Church Well
State Well No. 1851-09
Honolulu, Oahu

TO: Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

In accordance with Chapter 166 of Title 13, "Rules for the Control of Ground Water Use in the State of Hawaii", your application to abandon State Well No. 1851-09 is approved subject to the following conditions:

1. The bottom 40 feet of open hole shall be filled with a 1:1 mixture of cement and sand.

2. The remainder of the well shall be filled with neat cement.

3. A representative of the Division of Water and Land Development shall be present during sealing of the well. A two-day advanced notice shall be given to the Division prior to sealing.

4. A Well Abandonment Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of work.

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

JAN 12
Date of Issuance

Enc. (Well Abandonment Report form)
cc: USGS
Dept. of Health,
Drinking Water Program
Honolulu BWS
WATER USE PERMIT NO. 017

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: Kawaiahao Church
957 Punchbowl St.
Honolulu, HI 96813

Landowner of Source: Kawaiahao Church
957 Punchbowl St.
Honolulu, HI 96813

Permitted Withdrawal Rate: 0.030 mgd (Based upon a 12-month moving average)

Water Management Area: Nuuanu

Island: Oahu

Aquifer Sector/System: Honolulu/Nuuanu

System Sustainable Yield: 15 mgd

Water Type: N/A

Original CWRM Date: September 11th, 1981

Standard Conditions: 4, 9-10

Special Conditions: 51, 55, 102-103

Water Source

State Well Number(s): 1851-73
Well Name: Kawaiahao Church

Water Source TMK Number(s): 1st Division, 2-1-032:017
State Land Use Classification(s): Urban

County Zoning Classification(s): State HCDA

Geographical Coordinates: Latitude 21° 18’ 16.6” North
Longitude 157° 51’ 27.9” West

End Use

End Use TMK Number(s): 1st Division, 2-1-032:017
State Land Use Classification(s): Urban

County Zoning Classification(s): State HCDA

Beneficial Use Explanation: Use for irrigation of cemetery and church grounds
Background Information

Water Use Permit 017 was approved during the September 11th, 1981 Commission on Water Resource Management meeting. This water source has been in use for approximately 20 years by Kawaiahao Church. However, there are no monthly water use or salinity records on file for State Well No. 1851-73. Standard conditions 4 & 9-10 and special conditions 51, 55, & 102-103 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: Dean Yokotake
Site Address: 957 Punchbowl St.
Honolulu, HI 96713

Brown and Caldwell conducted a field investigation on April 15th, 2008 from 12:00 p.m. until 1:00 p.m. with Mr. Dean Yokotake. 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. 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. 017

State Well No. 1851-73 is located on TMK parcel 2-1-032:017 at 21° 18’ 16.6” N, 157° 51’ 27.9” W, with a real time accuracy of ±13-feet. The well is located in a sub-grade chamber adjacent to the church on the King Street side. A second chamber located approximately 10-feet from the first houses the two well pumps and the system controls that automate the irrigation system. Water from the well is distributed across TMK parcel 2-1-032:017 for irrigation use in the cemetery and on church grounds. The system in place does not have a flowmeter to record monthly water use. Reference the Appendix for photographs of the previously described system components.

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

Since no water use records are being submitted to the Commission, the permittee is found to be in violation of Standard Condition (10).

Based upon visual inspection of the system, all components appear to be in full working order, except for a system flowmeter. The permittee provided access to the site grounds where no wasting of water or water loss was observed and has advised that they are currently working on obtaining funding to upgrade the water well and irrigation system. Brown and Caldwell has recommended that the permittee work with the Commission on Water Resource Management to begin submitting monthly water use records once the system is upgraded and an appropriate system flowmeter is installed.

Several pertinent pieces of information, including end use TMK numbers and zoning classifications are missing from the Commission's electronic database and are not listed on the hard copy permit. As such, certain aspects of permit compliance, such as end use TMK verification, could not be assessed. Furthermore, salinity records are not mandated by this particular variation of Standard Condition (10). As such, the only factors inhibiting the permittee from achieving total compliance with Water Use Permit 017 are lack of installation of a system flowmeter and non-reporting of water use on a monthly basis.

**Recommendations**

- Address the following discrepancies between the Commission’s electronic database and actual field investigation findings:
  - Landowner name and address
  - Change permittee contact to Dean Yokotake at (808) 522-1333 (dyokotake@kawaiaha.org)
  - End use TMK numbers
  - Beneficial use description
  - State land use and county zoning classifications
- Address violation of Standard Condition (10) regarding non-reporting of water use and lack of installation of a system flowmeter.
20-Year Water Use Permit Review
Water Use Permit No. 017

APPENDIX

Field Investigation Photographs
Figure 1 – State Well No. 1851-73

Figure 2 – Well chamber
Figure 3 – Well pumps

Figure 4 – Pump & system control chamber
Figure 5 - Typical end use area (irrigation)

Figure 6 - Typical end use area (landscape irrigation)
Water Use Permit Survey

Contact Information (of the person who will be present at site visit):

Name: Dean Yokotake or Bruce Sinton-Hewitt
Phone (for phone interview): 522-1333
Email: dyokotake@kawaiahao.org
Best time to reach for phone interview: 10:00 a.m.

Property Information (of the water use/well location):

Address: 957 Punchbowl Street
City: Honolulu
Well Location TMK (list all if multiple wells present):
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”):
Use for watering of grounds

Is a flow meter installed and working properly? Yes ☐ No ☑
If no, please explain: There is no flow meter

Do you submit monthly water use reports to the State? Yes ☐ No ☑
If no, please explain: Not aware it was a requirement

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): W Time: 9:00 am ☑ 12:00 pm ☐ 3:00 pm ☐
Option #2 Date (M-F): Th Time: 9:00 am ☑ 12:00 pm ☐ 3:00 pm ☐
Option #3 Date (M-F): Fri 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 March 8th, 2008 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@brownandcaldwell.com

For Official Use Only
Received: 2/27/08
Information Updated: 2/26/08
Phone Interview Complete: 4/3/08

Notes/Comments:
**Phone Interview**

WUP Number: 017 Well Number(s): 1851-73 (Possibly 1851-0a)

Contact Name: Dean Yokota-B Phone Number: 522-1333

Attempt #1: Date/Time: 3/28/00 (2:03) Result: Left message

Attempt #2: Date/Time: 4/13/00 (3:03) Result: Reached

Well Location TMK(s): 2-1-032-017

Water Use TMK(s): ___________

Water Source Address: 957 Punchbowl St.
City: Honolulu Zip Code: 96813

Currently using water source? Yes ☒ No ☐

Notes/Comments: Use for watering of church grounds

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

Notes/Comments: ___________

How long have you been using this water source?: 20 years

Has there been any rezoning of the water source/water use properties? Yes ☐ No ☒

Have you reported the rezoning to the State? Yes ☐ No ☐ N/A ☒

If no, explain: ___________________

Scheduled field investigation day/time: 4/15/00 @ 12:00

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

• Meet at the church

• ___________

• ___________

• ___________

• ___________

• ___________

• ___________

• ___________

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: 4/13/00 Time: 3:00
Field Investigation Checklist

WUP Number: 017
Well Number(s): 1851-73 (Possibly 1851-00)

Water Source
Well Location TMK(s): Z-1-032-017
Well Head GPS Coordinates: 21°18'10" N, 157°51'27" W
Well Type: Drilled

Latitude: 21°18'10" N
Longitude: 157°51'27" W

Currently using water source?
Yes ☐ No ☐

Notes/Comments:

Is there a flow meter installed?
Yes ☐ No ☒

Is the flow meter operational?
Yes ☒ No ☐

Notes/Comments:

Water Use
Water Use TMK(s): Z-1-032:017

What is the water being used for? Watering of cemetery / irrigation of grounds

Is the water being used within the permitted boundaries?
Yes ☒ No ☐

If no, explain:

Is there any observed wasting of water or water loss?
Yes ☐ No ☒

If no, explain:

Are the permit conditions being complied with?
Yes ☐ No ☒

If no, explain:

No metering system present; however, water is used for a very small area. (Verify usage logs)

Other
Photographs of:
Water Source ☒
Water Meter ☐
Usage Area ☒
Pump/Motor ☒

General Notes/Comments:

- Verify: Landowner name & address? ; Domestic consumption?
  Irrigation only
- Provide monthly water use forms / DNIR website
- Multiple wells; Only one listed in Commission's Database
1851-00: Very old well; no one knows where it is.
- No water meter installed
- Pump: 21°18'10" N, 157°51'27" W

Investigated By: M. S. Date: 4/15/08 Time: 12:00 P.M.
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 Homelands 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:
   i. The permit may be revoked if work is not started within six months of the date of issuance or if work is suspended or abandoned for six months. The work proposed in the permit application shall be completed within two years from the date of permit issuance.

21. This permit may not be transferred or the use rights granted by this permit sold or in any other way alienated. Pursuant to HRS § 174C-59 and the requirements of Chapter 174C, the Commission on Water Resource Management has the authority to allow the transfer of the permit and the use rights granted by this permit in a manner consistent with HRS § 174C-59. Any such transfer shall only occur with the Commission's prior express written approval. Any sale, assignment, lease, alienation, or other transfer of any interest in this permit shall be void.

22. The water use permit granted shall be an interim water use permit, pursuant to HRS § 174C-50. The final determination of the water use quantity shall be made within five (5) years of the filing of the application to continue the existing use.

23. The water use permit shall be issued only after agricultural review.

24. That scheduled adjustments to Oahu Sugar Co. permitted use shall be initiated upon discontinuance of agricultural uses.
25. The issuance of this permit was approved by the Commission on Water Resource Management at its meeting on <Insert Date>.

26. The permit shall be subject to the review by the Attorney General.

27. The permit holder may be required to relinquish this permit at any time or specified time after issuance to the Board of Land and Natural Resources in accordance with Chapter 166 of Title 13.

28. The applicant shall obtain the necessary land acquisition documents from the Hawaii Housing Authority.
**Special Conditions List**

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

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

3. The applicant shall contact the Environmental Management Division, State Department of Health, at 586-4304, concerning “GUIDELINES APPLICABLE TO GOLF COURSES IN HAWAII” date <Insert Date & Version #>.

4. Standard Condition 10 is emphasized, to report consumption on a regular basis.

5. The applicant may continue this existing use of ground water within the limits approved by the Commission, and the actual issuance of the interim permit shall not be a reason to interrupt this existing use.

6. This interim water use permit shall cease to become interim and shall be subject to HRS § 174C-55 upon administrative review of the quantity within five (5) years, provided that all conditions of the use (including the review of the quantity which shall not be greater than the amount initially granted) remain the same. Enforcement of the allocation limit shall be stayed pending staff's review and issuance of a permanent water use permit.

7. As-built drawings of the well and pump, and a complete pumping test record shall be submitted within sixty (60) days.

8. In the event the pump tests show that aquifer boundary conditions do not support the requested withdrawals, the Commission reserves the right to amend this permit, after a hearing, to a level that is supported by the pump tests.

9. The existing use may be continued within the levels approved by the Commission, and the actual issuance of the permit document shall not be a reason to interrupt the approved level of use.

10. The filing of an application by Kukui, Inc. for a new or modified water use permit for the Kualapuu Aquifer in excess of 2.0 mgd (total system withdrawal) shall be just cause for re-consideration of this interim permit by the Commission.

11. Upon completion of a new transmission line for the transport of water use by Well #17, the permit shall be modified to reduce the allocation amount by the additional 79,220 gallons per day allocated for use of the Molokai Irrigation System.

12. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall conduct a feasibility study and submit a report describing
alternative sources of nonpotable water for irrigation uses at the resort area. It is suggested that the developer consider use of dual lines in the subdivisions so that effluent may be used in the existing reuse system. Another consideration is the development of brackish water wells in the Kaluakoi Aquifer system for mixing with the effluent generated at the resort.

13. Within six (6) months from the date of approval of a water use permit for the well, the application shall evaluate the filter back discharges into Kakaako Gulch to determine if excessive preventable waste is occurring and identify possible measures to eliminate or reduce such waste. The evaluation shall be conducted in cooperation with the Commission staff and staff of the Department of Health's Safe Drinking Water Branch, which regulates the drinking water system.

14. Within six (6) months from the date of approval of a water use permit for the well, the applicant shall 1) implement a leakage control and detection system and compete repairs to prevent such leakage and 2) implement use of xeriscaping and low-flow fixtures.

15. Action on the future use portion of the water use permit application for Well #17 (Well No. 0901-01) is deferred pending the establishment of existing uses in the aquifer. Kukui Inc.'s application for uses in excess of those uses existing on July 15, 1992 will be considered "new" uses and will be taken up by the Commission as soon as other existing use applications have been decided. In the interim,
   a. The Commission shall recognize that there is disagreement between the applicant's staff calculations of reasonable-beneficial existing use
   b. The Applicant will have the burden of proof to show within six (6) months reasonable-beneficial existing use calculations that support the applicant's request as opposed to staff's calculations.
   c. The Commission's enforcement of the approved existing use allocation will be suspended for six (6) months.

16. The permittee shall submit a notice of intent and written request to continue the use at least ninety (90) days prior to the expiration of the interim five-year permit.

17. The Commission shall delegate to Maui Department of Water Supply the authority to allocate the use of water for municipal purposes, as provided in §174C-48(b).

18. Maui Department of Water Supply shall be exempt from the requirements for permit modifications, as provided in §174C-57(c).

19. The permittee must meter water use and monitor chloride concentrations on a monthly basis and submit monthly reports of water use and chloride concentrations to the Commission.

20. Standard Condition 16 is waived for saltwater wells.

21. The permit will be revoked if (1) stream monitoring shows that pumping the well reduces stream flow, or (2) the electromagnetic resistivity survey indicates that the
well was drilled into a dike compartment, unless the applicant submits a petition for an amendment to the interim instream flow standard with the well completion report. However, no use of the water may be made without a Pump Installation Permit, which cannot be issued during consideration of the amendment of the interim instream flow standard.

22. The applicant shall present the results of the electromagnetic resistivity survey, pump tests, and stream monitoring to a community meeting as well as to the Commission.

23. A final determination of water use quantity shall be made within five (5) years of the filing date of the application (Insert Date) to continue existing use.

24. The applicant shall implement, by December 31, 1995, a biological and hydraulic monitoring program for a minimum 2-year period that: 1) documents the existing operating procedure, 2) seeks to identify the impacts of all operating alternatives on Waikolu Stream, and 3) seeks to identify the effectiveness of weir modifications (Dam No. 1). This program shall incorporate the three new wells, Wells #4-6 (Well Nos. 0855-06, -05, &-04, respectively), which may be pumped within the approved limits, for monitoring and testing purposes only. Further, semi-annual reports summarizing data and preliminary findings shall be submitted to the Commission. It is suggested that the Department of Agriculture work with the State Division of Aquatic Resources and other affected agencies to prepare the monitoring program in light of the difficult technical questions raised by this application. A particular concern is the coordination of this monitoring program with the ongoing National Park Service study by Anne Brasher. A draft of this plan shall be submitted to the Commission staff within ninety (90) days for technical review and comment. Results of the monitoring program shall be used to make recommendations to the Commission on any additional use of the wells, and shall be made readily available to all interested parties.

25. That the Commission approves the well construction permit for the Kamiloloa-Waiola Well (Well No. 0759-01), subject to the standard well construction conditions and the special conditions for the pumping well for the aquifer tests.

26. That the Commission authorizes the Chairperson to approve and issue a pump installation permit upon acceptance of adequate pump test result, subject to the standard pump installation conditions.

27. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

28. The applicant shall follow the agreed monitoring plan.

29. If pesticides used by the applicant are found in ground or surface water and can be traced to the applicant's use, the CWRM may revoke the permit immediately upon such finding.
30. Issuance of the interim permit shall be withheld until the reservation of water for DHHL is set by rule. Applicant may continue this existing use within the approved limits.

31. The applicant shall submit well modification and pump installation permit applications for administrative approval by chairperson prior to beginning any work required to complete well.

32. Should any stream flow impacts result from use, petition to amend interim instream flow standards shall be submitted.

33. Should any dewatering result from use, pumping shall cease immediately.

34. Shall submit accurate schematic diagram of distribution system for the battery of 5 wells.

35. Shall be subject to a 6-month independent audit & monitoring.

36. Final pump capacity shall be determined from pump test results & approved administratively by signature of chair.

37. The permittee shall seek and submit to the Commission within ninety (90) days written confirmation from the Department of Land Utilization of the non-conforming use.

38. Pumping shall cease immediately if the chloride reports show that the brackish water developed in the well exceeds 1,000 mg/l of chloride, unless a variance from the chloride limit has been granted. The authority to approve future variance requests is delegated to the chairperson.

39. The duration of the interim permit shall be:
   a. To July 1, 2006, or
   b. Until treated wastewater is available and acceptable for use, or
   c. Until such time that a significant change in permitted, actual, or projected uses or water supply occurs.

40. Action on any interim permit may be initiated by the Commission or any permittee upon letter request or pursuant to §174C-57 Haw. Rev. Stat. (Modification of permit terms).

41. This permit is approved under the assumption that wastewater will become available for reuse as an alternative supply source.

42. Require adherence to the chloride sampling protocol and the submittal of weekly chloride data. The authority to approve variances from the weekly reporting requirement is delegated to the Chairperson.

43. Require adherence to the Conservation Conditions.
44. In the event a water shortage is declared by the Commission, permittees in the <Insert Aquifer System> shall comply with the <Insert Aquifer System> water shortage plan adopted by the Commission.

45. The permittee shall contact the Department of Health, Clean Water Branch and obtain the necessary discharge permit(s).

46. Permit shall be interim and replaces existing WUP for 2051-07 & 11.

47. Applicant shall submit an acceptable archaeological inventory survey report to DHP. If historic sites affected, a plan to mitigate these affects must be accepted by DHP and completed by applicant.

48. Should the well be used for back-up domestic supply, applicant is advised to contact DOH or otherwise ensure safe drinking water quality is maintained.

49. (The permittee) may report monthly pumpage on yearly basis.

50. Prior to issuance of any permits, must submit filing fee for after-the-fact pump installation permit.

51. The term of this permit shall be twenty years from the date of issuance of the permit with a five-year Board review to determine compliance with the provisions of the permit.

52. The amount of water to be withdrawn under this permit shall be 0.19 mgd, averaged annually, for irrigation use. This permitted use of 0.19 mgd when added to a preserved use of 0.27 mgd amounts to a total of 0.46 mgd, averaged annually, which may be withdrawn from well 1646-01.

53. The use authorized by the permit must not 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 I.M.

143. Proposed other uses will be considered at a later date.
HONOLULU GROUND WATER CONTROL AREA

WATER WITHDRAWAL and USE PERMIT

for

Kawaiahao Church Well No. 1851-73
Honolulu, Oahu

TO: Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

Permission is hereby granted to Kawaiahao Church to withdraw and use water from Well No. 1851-73 located in Honolulu, Oahu, subject to all requirements of Chapter 177, HRS, Chapter 166, Title 13, the administrative rules of the Department of Land and Natural Resources and the following additional conditions:

1. 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.

2. The water to be withdrawn under this permit shall be a total of 0.03 million gallons per day (0.02 mgd preserved use plus an additional 0.01 mgd permitted use), averaged annually, for domestic and irrigation use.

3. 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.

4. The use authorized by the permit must not interfere substantially and materially with existing individual household uses and existing preserved uses.

5. The use of this well shall be subject to the shortage and emergency powers of the Board of Land and Natural Resources (BLNR).

6. This permit may be suspended or revoked, in accordance with Chapter 166.
Kawaiahao Church
Water Withdrawal & Use Permit

7. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.

8. 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.

The Board of Land and Natural Resources may declare this permit null and void, if it determines that the conditions of this permit are not being met or if the development of the ground water source is not completed within 24 months from the date the permit is issued.

SUSUMU ONO, Chairperson of the Board

10/28/83
Date of Issuance
Board of Trustees  
Kawaiahao Church  
957 Punchbowl St.  
Honolulu, HI 96813  

Dear Board of Trustees:  

Water Use Report from Kawaiahao Church Well (Well No. 1851-73)  

In October 1983, the Department of Land and Natural Resources issued Kawaiahao Church a water use permit (WUP) for Well No. 1851-73. The permitted amount of use and withdrawal is 0.030 million gallons per day and a copy of the WUP is enclosed for your reference. Condition number 8 of the WUP requires recording and reporting of water use from Well No. 1851-73 to the Commission on Water Resource Management (CWRM).

While recently reviewing our records, we found that we have not been receiving water use reports from Kawaiahao Church. We were able to gather past water use records of Well No. 1851-73 from the Honolulu Board of Water Supply. As you know, there are increasing concerns over the state of ground water in the Honolulu area. Water use reports from well owners are crucial to monitoring the condition of the ground water throughout the state.

Under the Hawaii Administrative Rules §13-168-7 of the State Water Code Chapter 174C:

(b) The owner or operator of any well or stream diversion works or battery of such water sources shall file a report of total water usage on a regular monthly (calendar or work schedule) basis to the Commission on forms provided by the Commission on or before the end of the month following the month for which water usage is to be reported. The report may include other use-related information such as type of use, salinity, and water level, as may be deemed appropriate and reasonable by the Commission.

We ask that Kawaiahao Church begin to record and report monthly water use from Well No. 1851-73 to CWRM on a monthly basis. A copy of the official monthly water use report form is enclosed for your use. Failure to report water use is a violation of the State Water Code and the well owner may be subject to fines of up to $1000/day.

If you have any questions or need assistance in filling out the water use report form, contact Mr. Neal Fujii of my staff at (808) 587-0264.

Sincerely,

LINNEL T. NISHIOKA  
Deputy Director

NF  
Enclosures
### DESCRIPTION

**Date of report**: July 16, 1986  
**Person filing report**: W. R. Craddick

**A. OWNER**  
Kawaihao Church  
**NAME**  
Kawaihao Church Water Well #2 ISLAND  
Oahu, Hawaii

**B. GENERAL LOCATION**  
Kawaihao Church, 957 Punchbowl Street, Honolulu, Hawaii 96813

**C. DRILLING COMPANY**  
Water Resources International, Inc.

**D. TYPE OF RIG**  
Rotary  
**DRILLING COMPLETED**  
May 22, 1986

**E. ELEVATION, msl**: Top of drilling platform 21 ft.  
Bench mark and method used to determine height of drilling platform above ground surface  
**Elevation**: +13 feet elevation

**F. HOLE SIZE**:  
15 inch dia. to 709 ft. below drilling platform  
**1-1/2 inch dia. to 777 ft. below drilling platform**

**G. CASING INSTALLED**:  
9-5/8 in. I.D. x 15 ft. wall solid section to 709 ft. below drilling platform  
N/A in. I.D. x N/A in. wall perforated section to N/A ft. below drilling platform

**H. ANNULUS**:  
Grouted 5-inch...to 709 ft. below drilling platform  
Gravel packed...to N/A ft. below drilling platform

**I. PERMANENT PUMP INSTALLATION**:  
- Pump type, make, serial no.  
- Capacity g.p.m.  
- Motor type, H.P., voltage, r.p.m.  
- Depth of pump intake setting ft. below which elevation is ft.  
- Depth of bottom of airline ft. below which elevation is ft.

### HYDROLOGY

**By Ed Sakuta**  
**Date of measurement**: 6-13-86

**J. INITIAL WATER LEVEL**:  
**ft. below drilling platform**

**K. INITIAL CHLORIDE**:  
ppm, total depth of well ft. below drilling platform

**L. PUMPING TESTS**:  
Reference point (R.P.) used: which elevation is ft.  
**Sampling Date**

<table>
<thead>
<tr>
<th>Date</th>
<th>Start water level</th>
<th>End water level</th>
<th>Depth of well</th>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Draw-down (ft.)</th>
<th>Temp. °F</th>
<th>Elapsed Time (hours)</th>
<th>Rate (gpm)</th>
<th>Draw-down (ft.)</th>
<th>Temp. °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 28, 1986</td>
<td>ft. below R. P.</td>
<td>ft. below R. P.</td>
<td>ft. below R. P.</td>
<td>to</td>
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</tr>
</tbody>
</table>

**SEE ATTACHED WELL TEST REPORT**

### SUBSURFACE FORMATION

<table>
<thead>
<tr>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
<th>Depth, ft.</th>
<th>Rock Description &amp; Remarks</th>
<th>Water Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 4</td>
<td>Clay</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
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<tr>
<td>4 to 8</td>
<td>Black sand</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>8 to 71</td>
<td>Coral</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>71 to 232</td>
<td>Lava rock</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
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<tr>
<td>232 to 410</td>
<td>Clay</td>
<td>to</td>
<td>to</td>
<td>to</td>
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</tr>
<tr>
<td>410 to 657</td>
<td>Coral</td>
<td>to</td>
<td>to</td>
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<tr>
<td>657 to 705</td>
<td>Clay</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>705 to 723</td>
<td>Cinder</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
<tr>
<td>723 to 777</td>
<td>Cinder and Clay</td>
<td>to</td>
<td>to</td>
<td>to</td>
<td>to</td>
</tr>
</tbody>
</table>

**N. REMARKS**:  
Ivan K. Nakatsuka - Austin, Tsutsumi & Assoc.

**FOR OFFICIAL USE**

**Latitude**: 21 18 28  
**Longitude**: 157 51 39  
**Well No.**: 1851-73'

---

**INSTRUCTIONS**: Send three(3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 333, Honolulu, Hawaii 96809.

## WELL TEST

**JOB NO.** J-321  
**DATE** 7/14/86

### Well Test Details
- **Well No. 2 (NEW WELL)**  
  - **Location:** Kawaiahao Church, Honolulu, Hawaii  
  - **Depth:** + 777 ft.  
  - **Dia.:** 8-3/8"

### Casing and Screen Information
- **Solid Casing:** 9-5/8" O.D. (+ 709 ft.)  
  - **Screen:** None  
  - **Open Hole:** + 50 ft.

### Datum and Reference Point
- **Datum:** +13 ft. elevation  
- **Reference Point:** Existing Ground

### Test Setup
- **Test Pump Setting:** Free Flow  
- **Air Line:**

### Static Water Level
- **Static Water Elev.:** from Ground

### Equipment
- **Pump:** N/A  
  - **Mfg'r.:** N/A
- **Rated Q:** N/A  
  - **Driver:** N/A  
  - **Mfg'r.:** N/A

### Test Personnel
- **Present for Test:**  
  - Ivan K. Nakatsuka (Engineer)  
  - Bill Craddick (WRI)  
  - Bobby Joe Kilpatrick (WRI)  
  - Arthur Abe (WRI)

### Test Results
<table>
<thead>
<tr>
<th>Date/Time</th>
<th>Q/SEC.</th>
<th>GPM</th>
<th>Head Feet</th>
<th>Drawdown</th>
<th>Temp</th>
<th>AG No.</th>
<th>CI's</th>
<th>Sample No.</th>
<th>Remarks</th>
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</thead>
<tbody>
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<td>START OF TEST</td>
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**REMARKS**  
11:34 SHUT DOWN FLOW TEST  
11:34 RECOVERY
**WELL TEST** (continued)

### Head

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<th>Q/SEC.</th>
<th>GPM</th>
<th>FEET</th>
<th>DRAWDOWN</th>
<th>TEMP</th>
<th>AG NO.</th>
<th>CI's</th>
<th>SAMPLE NO.</th>
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</tbody>
</table>

**END OF TEST**
3/17/87

- No logging necessary
- Need cement pump → OK from Jim
- tremie from below casing
TO ______________________________

DATE ____________________ TIME ______

WHILE YOU WERE OUT

M ___________________________________

of __________________________________ 

Phone __________________________________

<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 __________________________________

Operator ________________________________
Spoke with Howard - WRI

Contact at Kawaihao Church is "Baba". WRI will start work on well when equipment comes in from Marie - no date given.

Howard called back - 1/21/87. Would be good if we could log well in the 1st week of Feb. They may want to start work the following week.

1/21/87 WRI will let us know when well is set up to log.
- 353' (363') Possible hole. E-log

- 406' (419') 7 7/8" bit could not pass through.

- 419' (433') 4" casing stuck for awhile.

- Cut-away showing 10', 6" X 4" casings.

- 649' (663') Bottom of casing from E-log.

- 675' (689') Hole in 10" casing, from E-log.

- 690' (700') E-log showed change, top of 10" bit something.

- 696' (709') Bottom of 10" casing from E-log

- 715' (725') End of casing from records, stopping with a hard silt, reported to drill. Account with records.

- 711' (725') Sound by cable tool

- 717' (731') Sound by cable tool

- 722' (730') Sound by E-log (7/21/72)

- 744' (760') Sound by cable tool (Barker)

- 751' (765') Original bottom from records

 Kemp Well will be 723' from ground.

Horizontal 1° 20'
DIVISION OF WATER AND LAND DEVELOPMENT

FROM: 

DATE: W

FILE IN: 

TO: INITIAL: 

M. TAGOMORI
A. Ching
H. Sakai
G. Morimoto
D. Lum
S. Miyamoto
S. Samuels
G. Matsumoto
P. Matsuo
N. Imada
N. Kaneshiro
L. Asani

PLEASE: 

See Me
Take Action By
Route to Your Branch
Review & Comment
Draft Reply By
Acknowledge Receipt
Xerox copies
Return
File
Mail
For Information

REMARKS:

Ed

Elminate to break fill. Allow only cement/sand 1:1 in bottom 40'. Then next cement 1:2.5. We want to be sure that no leaching occurs around the bottom of building.

For Dan Lum 1/6/87 - 1:1 cement/sand should not cause any problems in aquifer. State inspector to be on-site during sealing.
December 15, 1986

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

Reference: Kawaiahao Church Water Well System
Oahu, Hawaii

Gentlemen:

Enclosed please find the completed Well Modification
Permit Application to modify the water well system for Kawaiahao
Church.

If you have any questions or require additional information,
please contact this office.

Very truly yours,

WATER RESOURCES INTERNATIONAL, INC.

Howard T. Akagi
Vice President

Enc.
APPLICATION FOR  (check one)  

☐ WELL DRILLING PERMIT  ☒ WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Reference: Regulation 9, Dept. of Land & Natural Resources.

Is the well located in a Designated Ground Water Control Area?  ☐ Yes  ☒ No

If "yes", application must be accompanied by a Water Use and/or Water Supply Permit and a non-refundable filing fee of $100 payable to the Department of Land & Natural Resources. However, if application is for minor modification of well, filing fee may be waived. If "no", no filing fee is required. Filing fee is waived for federal, state, and county government agencies.

1. WELL LOCATION: Island_ Oahu_ Tax Map Key 2-1-32:17_. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER  KAWAIAHAO CHURCH  Telephone 536-9144
Address 957 Punchbowl Street, Honolulu, Hawaii  Zip Code 96813

3. PROPOSED DRILLING COMPANY: WATER RESOURCES INTERNATIONAL, INC.

4. PROPOSED WORK:  ☐ Drill new well  ☐ Deepen  ☐ Redrill  ☐ Alter  ☒ Seal  
☐ Abandon  ☐ Install new pump  ☐ Replace pump  ☐ Modify pump

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):

- 45 feet - fill with rock
- 5 feet - fill with sand
- 720 feet - fill with cement

PROPOSED SECTION OF WELL

- Elevation at top of casing 16 ft., msl.
- Ground Elev. 14 ft., msl*  
- Solid casing: Material PVC  
  - Length 715 ft.  
  - Diameter 4 in.  
  - Wall thickness in.
- Casing:  ☐ Perforated  ☐ Screen  
  - Material N/A  
  - Length ft.  
  - Diameter in.  
  - Wall thickness in.  
  - Openings sq.in./L.F.
- Open Hole:  
  - Length 50 ft.  
  - Diameter 6 in.

*Approximate elev. at filing. Final elev. (msl) by a surveyor licensed by the State must be submitted at start of construction.

5. PROPOSED USE:  ☐ Municipal  ☐ Military  ☐ Agriculture  ☐ Industrial  
☐ Domestic  ☐ Disposal  ☐ Other (specify)  _________ 

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.  
☐ Daily _______ gallons  ☐ Monthly _______ gallons  ☐ Yearly _______ gallons

7. PROPOSED PUMP OR FLOW CAPACITY:  ____ gallons per minute

Signature:  ______________ Date: 12-9-86

Water User

Signature:  ______________

Landowner of Well Site

Date: 12-9-86

For Official Use:

State Well No.  __________
DLNR Permit No.  __________
DLNR Application No.  __________
APPLICATION FOR (check one)

☐WELL DRILLING PERMIT  ☒WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Reference: Regulation 9, Dept. of Land & Natural Resources.

Is the well located in a Designated Ground Water Control Area?  ☑ Yes  ☐ No

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1. WELL LOCATION: Island Oahu  Tax Map Key 2-1-32:17. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER KAWAIHAO CHURCH  Telephone 536-9144
   Address 957 Punchbowl Street, Honolulu, Hawaii 96813

3. PROPOSED DRILLING COMPANY: WATER RESOURCES INTERNATIONAL, INC.

4. PROPOSED WORK:  ☑ Drill new well  ☑ Deepen  ☑ Redrill  ☑ Alter  ☑ Seal  ☑ Abandon  ☑ Install new pump  ☑ Replace pump  ☑ Modify pump

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):

- 45 feet - fill with rock
- 5 feet - fill with sand
- 720 feet - fill with cement

PROPOSED SECTION OF WELL

<table>
<thead>
<tr>
<th>Layer</th>
<th>Depth</th>
<th>Material</th>
<th>Length</th>
<th>Diameter</th>
<th>Wall thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement Grout</td>
<td>16 ft.</td>
<td>PVC</td>
<td>715 ft.</td>
<td>4 in.</td>
<td>N/A</td>
</tr>
<tr>
<td>Hole Diameter</td>
<td>in.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rock Packing</td>
<td>ft.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Approximate elev. at filling. Final elev. (msl) by a surveyor licensed by the State must be submitted at start of construction.

5. PROPOSED USE:  ☑ Municipal  ☑ Military  ☑ Agriculture  ☑ Industrial  ☑ Domestic  ☑ Disposal  ☑ Other (specify)

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.

☐ Daily  ☑ Monthly  ☑ Yearly

7. PROPOSED PUMP OR FLOW CAPACITY:

Signature:  [Signature]
Date: 12-9-86

State Well No.  
DLNR Permit No.  
DLNR Application No.  

For Official Use:

Water User

Landowner of Well Site

Date: 12-9-86
Kawaiahao Church Well 1851-09
HONOLULU GROUND WATER CONTROL AREA
WELL DRILLING PERMIT
for
Kawaiahao Church Well No. 1851-73
Honolulu, Oahu

TO: Kawaiahao Church
957 Punchbowl Street
Honolulu, Hawaii 96813

In accordance with Chapter 166 of Title 13, "Rules for The Control Ground Water Use in the State of Hawaii," your application to drill State Well No. 1851-73 is approved subject to the following conditions:

1. A Driller's Well Completion Report (enclosed) shall be submitted to the Division of Water and Land Development within 60 days after completion of the well.

2. Pumping test data shall be submitted to the Division of Water and Land Development within 60 days after testing of the well.

3. Monthly pumpage records shall be submitted after the well is put into production.

4. Upon completion of the well, submit an "as-built" drawing of the well and a map showing the exact location of the well.

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

SUSUMU ONO
Chairperson of the Board

Date of Issuance
Enc. Driller's Report Form
bcc: USGS
Dept. of Health
Honolulu BWS
TO: Department of Land and Natural Resources  
P.O. Box 373  
Honolulu, HI 96809

WE ARE SENDING YOU  ☒ Attached ☐ Xerox via  ☐ mail  ☐ the following items:

☐ Shop drawings  ☐ Prints  ☐ Plans  ☐ Samples  ☐ Specifications
☐ Copy of letter  ☐ Change order

<table>
<thead>
<tr>
<th>COPIES</th>
<th>DATE</th>
<th>NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>Department of Land and Natural Resources Executed Applications for Well Drilling Permit and for Withdrawal from a Ground Water Control Area, with attached Assessment and Site Plans</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  ☐ ________________________

☐ FOR BIDS DUE ______________ 19. ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

COPY TO: Spencer Leineweber, Spencer Ltd. w/o encl.

SIGNED:  

If enclosures are not as noted, kindly notify us at once.  

IVAN K. NAKATSUKA  
Chief Environmental Engineer
APPLICATION FOR (check one)

☐WELL DRILLING PERMIT  ☐WELL MODIFICATION PERMIT

Instructions: Send completed application and attachments to Department of Land and Natural Resources, P.O. Box 373, Honolulu, Hawaii 96809.

Reference: Regulation 9, Dept. of Land & Natural Resources.

Is the well located in a Designated Ground Water Control Area?  ☑Yes  ☐No

If "yes", application must be accompanied by a Water Use and/or Water Supply Permit and a non-refundable filing fee of $100 payable to the Department of Land & Natural Resources. However, if application is for minor modification of well, filing fee may be waived. If "no", no filing fee is required. Filing fee is waived for federal, state, and county government agencies.

1. WELL LOCATION: Island Oahu  Tax Map Key 2-1-32:17. Attach a plot plan showing well location referenced to established property boundaries.

2. WATER USER: Kawaihao Church  Telephone 536-9144
Address 957 Punchbowl Street, Honolulu, Hawaii  Zip Code 96813

3. PROPOSED DRILLING COMPANY: Presently Unknown (Will be a licensed driller)

4. PROPOSED WORK: ☐Drill new well ☐Deepen ☐Redrill ☐Alter ☐Seal
☐Abandon ☐Install new pump ☐Replace pump ☐Modify pump

Fill in the diagram and briefly describe the proposed work (use back of form if necessary):
New well will replace adjacent existing well (State Well No. 1851-09)

PROPOSED SECTIONS OF WELL

- Elevation at top of casing: 16 ft. msl.
- Ground Elev.: 14 ft. msl. *
- Solid casing:
  - Material: Steel
  - Length: 715 ft.
  - Diameter: 8 in.
  - Wall thickness: 5/16 in.
- Casing: ☐Perforated ☐Screen
  - Material: N/A
  - Length: ft.
  - Diameter: in.
  - Wall thickness: in.
  - Openings: sq.in./L.F
- Open Hole:
  - Length: 50 ft.
  - Diameter: 6 in.

5. PROPOSED USE: ☐Municipal ☒Military ☐Agriculture ☐Industrial ☐Domestic ☐Disposal ☐Other (specify) Irrigation

6. PROPOSED AMOUNT OF WITHDRAWAL: Check most appropriate box and fill in amount.
☑Daily _______ gallons ☐Monthly _______ gallons ☐Yearly 11.0 Mil. gallons

7. PROPOSED PUMP OR FLOW CAPACITY: 100 gallons per minute

Signature: Sam M [water user]
Date: 6-17-83

Signature: Sam M [landowner]
Date: 6-17-83

For Official Use:
State Well No. 1851-73
DLNR Permit No.
DLNR Application No.
RECEIVED
83 JUN 21 A 9:30

OUT OF WATER & LAND DEVELOPMENT

ROUTE: ET CM 5307K R
ILK 84 983
SPENCER LIMITED