WHILE YOU WERE OUT

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Message

Operator
DIV. OF WATER & LAND DEVELOPMENT
Dept. of Land & Natural Resources
RM. 227, 1151 PUNCHBOWL STREET
HONOLULU, HAWAII 96813

DATE 1-1-81

TO Files

FROM Maclan

SUBJECT Call from Paul Hinton - Bell Collins Ph. 511.5361

Kau Schools to begin 10-45 development program. Interested water withdrawals are anticipated from their privately-owned well.

I advised Paul to submit water use application to DWRC.
Let's write Ken Schuler
to submit progress
reports regularly from
now on.
Treat just like Paul!
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:  

RESUBMITTAL  
The Kamehameha Schools Water Withdrawal and Use Permit Application, Honolulu Ground Water Control Area  

The Kamehameha Schools, Bernice P. Bishop Estate has submitted a Water Withdrawal and Use Permit Application to withdraw an additional 0.04 mgd, average annually, from Wells 2052-7 and 2052-11, to service new buildings and new and expanded athletic fields proposed in its 10-year capital improvement program.  

The entire water system is owned and operated by The Kamehameha Schools and services only the school campus. The preserved use previously certified by the Board of Land and Natural Resources is 0.189 mgd, averaged annually. No improvements to the existing deep well source are required as the existing source capacity is greater than the increased water needs of the school.  

The Kamehameha Schools' request for the withdrawal of 0.04 mgd would increase the permitted pumpage from the Moanalua-Kaimuki Subarea of the Honolulu Ground Water Control Area from 43.327 mgd to 43.367 mgd, which is below the 55 mgd sustainable yield established for the Subarea.  

RECOMMENDATION  

That the Board approve the issuance of a Water Withdrawal and Use Permit to The Kamehameha Schools for 0.04 mgd, averaged annually, for domestic and irrigation uses. The duration of the permit to use the 0.4 mgd shall be twenty (20) years with a review every five years by the Board to determine compliance with provisions of the permit. The applicant shall be subject to any special conditions and applicable laws, rules and regulations.  

Respectfully submitted,  

ROBERT T. CHUCK  
Manager-Chief Engineer  

APPROVED FOR SUBMITTAL  

SOSUMU ONO, Chairman  

Approved by the Board of Land & Natural Resources at the meeting held on 6/10/82  

ITEM D-2
HONOLULU GROUND WATER CONTROL AREA

WATER WITHDRAWAL and USE PERMIT

for

Kamehameha School Wells No. 2052-07 and 2052-11
Honolulu, Oahu

TO: The Kamehameha Schools
Bernice P. Bishop Estate
Kapalama Heights
Honolulu, Hawaii 96817

Permission is hereby granted to The Kamehameha Schools to withdraw and use water from Wells No. 2052-07 and 2052-11 located in Honolulu, Oahu, subject to all requirements of Chapter 177, HRS, DLNR Chapter 166 of Title 13, and the following 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 0.04 million gallons per day for domestic and irrigation use, averaged annually, over and above their present preserved use of 0.189 million gallons per day. The total withdrawal shall be 0.229 million gallons per day, averaged annually. No improvements to the existing source are required as the existing source capacity is greater than the increased water needs of the school.

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

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

5. This permit may be suspended or revoked, in accordance with Chapter 166.

6. The permit holder may be required to relinquish this permit to BLNR, in accordance with Chapter 166.
7. The monthly withdrawal from Wells 2052-07 and 2052-11 shall be recorded and reported to DLNR on a monthly basis by the owner and/or operator of the wells.

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.

July 12, 1982
Date of Issuance

SUSUMU ONO, Chairman of the Board

bcc: USGS
Health Dept
Hon. BWS
Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

RESUBMITTAL
The Kamehameha Schools Water Withdrawal and Use Permit Application, Honolulu Ground Water Control Area

The Kamehameha Schools, Bernice P. Bishop Estate has submitted a Water Withdrawal and Use Permit Application to withdraw an additional 0.04 mgd, average annually, from Wells 2052-7 and 2052-11, to service new buildings and new and expanded athletic fields proposed in its 10-year capital improvement program.

The entire water system is owned and operated by The Kamehameha Schools and services only the school campus. The preserved use previously certified by the Board of Land and Natural Resources is 0.189 mgd, averaged annually. No improvements to the existing deep well source are required as the existing source capacity is greater than the increased water needs of the school.

The Kamehameha Schools' request for the withdrawal of 0.04 mgd would increase the permitted pumpage from the Moanalua-Kaimuki Subarea of the Honolulu Ground Water Control Area from 43.327 mgd to 43.367 mgd, which is below the 55 mgd sustainable yield established for the Subarea.

RECOMMENDATION

That the Board approve the issuance of a Water Withdrawal and Use Permit to The Kamehameha Schools for 0.04 mgd, averaged annually, for domestic and irrigation uses. The duration of the permit to use the 0.4 mgd shall be twenty (20) years with a review every five years by the Board to determine compliance with provisions of the permit. The applicant shall be subject to any special conditions and applicable laws, rules and regulations.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL

SUSUMU ONO, Chairman

June 10, 1982
Chairman and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

The Kamehameha Schools Water Withdrawal and Use Permit Application, Honolulu Ground Water Control Area

The Kamehameha Schools, Bernice P. Bishop Estate has submitted a Water Withdrawal and Use Permit Application to withdraw an additional 0.04 mgd, average annually, from Wells 2052-7 and 2052-11, to service new buildings and new and expanded athletic fields proposed in its 10-year capital improvement program.

The entire water system is owned and operated by The Kamehameha Schools and services only the school campus. The preserved use previously certified by the Board of Land and Natural Resources is 0.189 mgd, averaged annually. No improvements to the existing deep well source are required as the existing source capacity is greater than the increased water needs of the school.

The Kamehameha Schools' request for the withdrawal of 0.04 mgd would increase the permitted pumpage from the Moanalua-Kaimuki Subarea of the Honolulu Ground Water Control Area from 43.327 mgd to 43.367 mgd, which is below the 55 mgd sustainable yield established for the Subarea.

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That the Board approve the issuance of a Water Withdrawal and Use Permit to The Kamehameha Schools for 0.04 mgd, average annually, for domestic and irrigation uses. The applicant shall be subject to any special conditions and applicable laws, rules and regulations.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

SUSUMU ONO, Chairman

ITEM D-8
**WATER RESOURCES & FLOOD CONTROL BRANCH**

**From:** Ed  
**Date:** 3/30/82  
**File in:**

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<td>Takeo Fujii</td>
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<td></td>
<td>James Yoshimoto</td>
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**Susp. date for Kam School Permit:** 19 July 1982

Suggest we take this up in early June. By all means may comment on our request. Probably June 10th. Find out from applicant if any urgency for permit. 3/3/82.
WATER RESOURCES & FLOOD CONTROL BRANCH

From: [ REDacted ] Date: 1/25/82 File in: [ REDacted ]

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<td>- Review &amp; comment</td>
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<td>- Type final</td>
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- Manabu Tagomori
- Albert Ching
- Daniel Lum
- George Matsumoto
- Nobu Kaneshiro
- Tom Nakama
- Paul Matsuo
- Edwin Sakoda
- Neal Imada
- Randall Kurashige
- Mitchell Ohye
- Joe Menor
- Doris Hamada
- Robert Chuck
- Takeo Fujii
- James Yoshimoto
- Jane Sakai
- Elsie Yonamine
- Bill Koyanagi
- Richard Jinnai
- Yoshi Shibuya

☑ Board Submitted
☐ Public Notice - 10 days prior to BLNR mtg.
☐ Notify Interested Parties
  BWS
  DoH ? info
☐ Put down within 1 yr? SYSTEM ALREADY IN
Eng/ Marla fluorescence (x 300)

Amyrood

Lead Br. Ken Yuma

6122

A 14068 - 12/12 (eff. Hours)

120 gal/1000g of new oil

Formulation.

Residuals resides use. In

3% guide for commercial

LFP BS 15 - 1.5% Brick
PROJECT 38 - MISCELLANEOUS FLOOD CONTROL PROJECTS - MAUI

See Project 23
See Project 23

Preliminary Engineering Study for Kahului Flood Control Project, Kahului, Maui (Kanaha Pond)

Sept. 16, 1969


23 - 47 26-4

James Miyagi

Preliminary Design

Exhibit D-1

WMAI 3191, Corp. Mii.
January 21, 1982

The Kamehameha Schools
Bernice P. Bishop Estate
Kapalama Heights
Honolulu, Hawaii 96817

Gentlemen:

This is to acknowledge receipt of your application for a Permit to Withdraw Water for Beneficial Use and the accompanying filing fee of $100.00.

My staff is reviewing the application and will contact you if further information is needed.

Very truly yours,

SUSUMU ONO
Chairman of the Board
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: Bernice P. Bishop Estate
   Address: Honolulu, HI 96817
   Phone: 842-8270

2. REQUESTED BENEFICIAL USE OF WATER:
   ☐ Domestic ☐ Municipal ☐ Military ☐ Agricultural ☐ Industrial ☐ Other
   (specify) School

   Appropriately describe nature and purpose of requested use:
   See Attachment "A"

   Proposed commencement date of water use:

3. REQUESTED AMOUNT OF WITHDRAWAL OR SUPPLY:
   Average Annual 0.040 mgd; Maximum Month 0.060 mgd; Maximum Day 0.130 mgd.
   Appropriately describe schedule or times of taking requested withdrawal:
   See Attachment "B"

4. NATURE AND TERM OF REQUESTED PERMIT:
   ☐ Temporary ☐ Permanent

   Requested period of permit

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:
   See Attachment "C"

   If construction work is proposed for new or modified existing source, give:
   Commencement Date
   Completion Date

6. ASSESSMENT OF REQUESTED WATER USE OR SUPPLY
   See Attachment "D"

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]
Date: 1-13-82

Water User or Supplier

Signature: [Signature]
Date: 1-13-82

Owner of Water Source

In accordance with Department Regulation No. 3, 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 19 July 1982
Board Approved Disapproved
Well No. 2052-07, 11
2. REQUESTED BENEFICIAL USE OF WATER:

The purpose of the water withdrawal request is to service approximately 156,900 square feet of new buildings and 285,000 square feet of new and expanded athletic fields proposed by The Kamehameha Schools in its reorganization and 10-year capital improvement program.

The reorganization and capital improvement program's primary objectives are to consolidate educational programs into new or renovated facilities, to upgrade the numerous "portable" and substandard facilities and to support the innovative programs of the school's unique extension education program.

The addition of new facilities will be the primary cause for increased water usage. A small increase in the campus population is anticipated in the next ten years so that an increase in water usage due to this factor will be minimal. Similarly, a modest increase in water usage is anticipated with the irrigation of a new athletic field and expansions of existing athletic fields.
3. REQUESTED AMOUNT OF WITHDRAWAL OR SUPPLY:

a. Annual Average Day Withdrawal Increase.

Increased water use for the new buildings is based on a consumption rate of 120 gallons per 1,000 square feet of new building floor area per the Board of Water Supply guideline for commercial and residential mixed use. The projected water consumption increase is 20,000 gpd (see Table 2 this attachment).

The new and enlarged athletic fields are projected to increase the annual average day water withdrawal by 13,000 gpd based on 285,000 square feet of area irrigated at an average application rate of 0.5 inch per week. The application rate is the amount required to supplement rainfall of 1.0 inch per week to provide the normal irrigation requirement of 1.5 inches per week. The median annual rainfall is 50 and 100 inches per year for the lower and upper campuses respectively. The rate of 1.0 inch per week is equivalent to 50 inches of rainfall per year. Since a portion of the annual rainfall is not significant and will not contribute to irrigation replacement, a more conservative annual average day irrigation withdrawal of 20,000 gpd, which is equivalent to an average supplemental application rate of 0.8 inch per week has been assumed. (See Table 2).

The total estimated annual average day water withdrawal increase for the campus is 40,000 gpd covering the new campus facilities and irrigation needs. (See Table 1).
TABLE 1: CONSTRUCTION SCHEDULE AND ESTIMATED WATER USE FOR THE CAMPUS PLAN PROJECTS

**Note:** See the attached water facilities drawing for the locations of the various proposed projects.

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Description</th>
<th>Schedule</th>
<th>Estimate Annual Avge. Day Water Use (GPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Campus Re-organization</td>
<td>1981</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Lower Campus Access Road/New Lower Campus Counseling Center</td>
<td>1981-1982</td>
<td>240</td>
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<tr>
<td>3</td>
<td>KERI/Elementary Campus Renovation</td>
<td>1981-1983</td>
<td>4,780</td>
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<tr>
<td>4</td>
<td>O-3, 3-5 Program Facility</td>
<td>1981-1983</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>New Dining Hall, New Performing Arts Complex, New Student Parking</td>
<td>1981-1984</td>
<td>8,580</td>
</tr>
<tr>
<td>6</td>
<td>New Industrial Arts Complex</td>
<td>1982-1984</td>
<td>3,200</td>
</tr>
<tr>
<td>7</td>
<td>Renovate Akahi for Extension Education, Purchasing, Rapid Copy and Mail Room</td>
<td>1982-1984</td>
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<tr>
<td>8</td>
<td>Extension Education Parking</td>
<td>1982-1984</td>
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<tr>
<td>9</td>
<td>New Transportation Maintenance Facility and Pad</td>
<td>1983-1984</td>
<td>840</td>
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<tr>
<td>10</td>
<td>Consolidation of Physical Plant</td>
<td>1985</td>
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<td>11</td>
<td>Bernice Pauahi Bishop Memorial Chapel</td>
<td>1985-1986</td>
<td>960</td>
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<tr>
<td>12</td>
<td>New Tract/Football Field, Kekuhaupio Parking, New Team Room</td>
<td>1984-1985</td>
<td>18,400</td>
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<tr>
<td>13</td>
<td>Enlargement of Mawaena Field</td>
<td>1986</td>
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Total Annual Average Day Water Use: 40,000 gpd
### TABLE 2: SUMMARY OF NEW CAMPUS FACILITIES WATER DEMAND

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Total New Floor Area (S.F.)</th>
<th>Average Water Demand (gpd)*</th>
<th>Irrigated Area (S.F.)</th>
<th>Average Water Demand (gpd)**</th>
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<td>39,800</td>
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<td>2,500</td>
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<td>TOTALS</td>
<td>156,900</td>
<td>19,200</td>
<td>285,000</td>
<td>20,300</td>
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Total, Say 20,000 gpd  
Total, Say 20,000 gpd

*(Based on 120 gal./1,000 sq. ft.)
**(Based on 0.8 inch/week average application rate)
b. Maximum Monthly Amount.

Water consumption records for 1980 showed that maximum month use occurred in September with a maximum month average daily use of 278,200 mgd. The annual average daily use is 190,000 gpd (1980 estimated); therefore, the existing historic maximum to annual average daily use ratio is approximately 1.5. Because the type of activities, albeit modestly expanded, remains essentially unchanged, this ratio is considered applicable to the proposed average annual daily water withdrawal amount of 40,000 gpd to obtain a projected maximum month demand of 60,000 gpd.

c. Maximum Daily Amount.

The estimated annual maximum day demand increase for both the new campus buildings and the new and expanded athletic fields is 130,000 gpd, with 40,000 gpd demand increase for the new campus buildings and the remainder for irrigation needs of the new and expanded fields.

The annual maximum day demand increase for the new campus buildings of 40,000 gpd was computed by multiplying the annual average day flow by the annual maximum day to annual average day ratio of 2. The ratio was selected after review of the water consumption records for 1980 which showed an annual maximum day demand in September of 398,000 gpd and an annual average day demand of 193,000 gpd.

The annual maximum day demand increase for the 285,000 square feet of new and expanded athletic fields is expected to occur during the dry summer periods where the full irrigation application rate of 1.5 inches would be applied in three scheduled applications per week. The annual maximum day irrigation demand increase would therefore be 90,000 gpd per scheduled application and compares to the 20,000 gpd annual average day irrigation demand.
d. Demand Summary.

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<th>Increase</th>
<th>Projected</th>
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<td>Average Annual</td>
<td>190,000 GPD</td>
<td>40,000 GPD</td>
<td>230,000 GPD</td>
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<tr>
<td>Maximum Monthly</td>
<td>278,000 GPD</td>
<td>60,000 GPD</td>
<td>338,000 GPD</td>
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<tr>
<td>Maximum Day</td>
<td>398,000 GPD</td>
<td>130,000 GPD</td>
<td>528,000 GPD</td>
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5. **PROPOSED SOURCE OF WATER SUPPLY:**

a. **Existing System.**

The Kamehameha Schools private water system is as shown on the attached "Water Facilities" drawing. The entire system is owned and operated by The Kamehameha Schools and services only the school campus.

b. **The Water Source** consists of two 12" diameter deep wells located below the Campus at the intersection of Kapalama Avenue and Kaikuahine Street. Each well is outfitted with a 600 gpm electric motor driven pump. One well operates as the primary supply well while the other serves as a standby. The pump functions are manually switched between the two wells. The proposed capital improvement program will not necessitate any improvements to the existing deep well source.

c. **The Booster Pump Station** has three electric motor driven booster pumps, each capable of pumping 300 GPM at a total dynamic head of 705 ft. The booster pumps feed the campus distribution system which includes the upper storage reservoir. The present system operation utilizes one booster pump operated automatically by a float switch in the upper reservoir with manual switch over to one of two standby pumps. Pump uses are alternated regularly. A single pump operating a full 24 hours should be capable of transmitting the maximum day water use.
d. **Storage Reservoir.**

The lower 200,000-gallon reservoir at the booster pump station site is used to regulate and coordinate the operation of the well and booster pumps. The main upper storage reservoir which serves the entire campus has a capacity of 501,500 gallons. It has a floor elevation of 832.5 ft. and spillway elevation of 849.5 feet.

The primary distribution main system consists of 8-inch diameter unlined steel pipe network which provides service to the various campus facilities between the booster pump station and the main storage reservoir.

**PROPOSED WATER FACILITIES IMPROVEMENTS**

No improvements to the existing deep well system or to the storage reservoirs are required.

The existing water distribution system can adequately provide domestic service for both the existing and proposed campus buildings. The pipe network extensions, however, are planned to service new buildings and to provide fire hydrant coverage. Looping of the existing pipe network between the new Performing Arts Complex, Industrial Arts Complex and the existing Administration Building are being considered to increase fire flow capacity and operational flexibility. Minor modifications to the booster pump station controls consisting of automatic switch over to a standby pump should the operating pump fail during a fire, and installation of 1,000 feet of new pipeline from the existing upper reservoir to the vicinity of Kina'u Dormitory are also being considered to provide adequate fire protection.
6. ASSESSMENT OF REQUIRED WATER USE OR SUPPLY:

a. Desirability of Issuing the Permit.

The Trustees and Administrators of The Kamehameha Schools/Bernice P. Bishop Estate have adopted extensive and ambitious educational goals to be accomplished during the next 10 years. These goals include the reorganization of the secondary school, expansion of the school's research and extension educational programs and the upgrading of substandard facilities. The capital improvements required to meet these goals consist of major renovations of existing facilities, construction of several new buildings, construction or expansion of athletic fields and the improvements to the campus utilities to meet the needs of the proposed new construction.

The school's goals of providing more educational opportunities to the Hawaiian people will never be realized without the issuance of the water use permit.

b. Availability of Water.

The existing campus water source and related facilities have adequate capacity to meet the total existing and additional water demands of the campus plan and secondary school reorganization. No improvements to the existing deep well source is required.
C. Impact of the Proposed Water Use On Existing Permitted Uses, Preserved Uses, and Individual Household Uses.

The entire water system, owned and operated by The Kamehameha Schools, services only the school campus. Therefore, there should be no impact on existing permitted uses, preserved uses, and individual household uses in the areas adjacent to the campus.

The campus existing preserved use (certified annual average daily use) is approximately 190,000 gpd. The annual average day water demand with completion of the 10-year capital improvement program is projected to increase by an additional 40,000 gpd to approximately 230,000 gpd. The annual maximum day water demand is projected to increase by 130,000 gpd with 40,000 gpd for the new campus building and 90,000 gpd for irrigation requirements of the new and expanded fields. The annual maximum day water demand based on water consumption records for 1980 was 398,000 gpd; this brings the total annual maximum day water demand to 528,000 gpd. The existing source has a capacity of 576,000 gpd assuming well pump operation at a maximum of 16 hours daily. The existing campus storage and distribution systems also have adequate capacity to meet the total projected water use. Therefore, there should be negligible impact on the facilities servicing existing campus users. The new campus facilities are planned to be integrated within the existing campus organization and structure which includes the existing permitted and preserved water uses.
**INVOICE**

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**GOODS/SERVICES REC'D IN SATISFACTORY CONDITION**

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MAKE CHECKS PAYABLE TO: HAWAII NEWSPAPER AGENCY, INC., AC
IN THE MATTER OF
PUBLIC NOTICE

Consideration of A Water Withdrawal and Use Permit in the Honolulu Ground Water Control Area

STATE OF HAWAII,
CITY AND COUNTY OF HONOLULU.

Judith Amancio, 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 five times in said daily newspaper, commencing on the 1st day of March, 1982, and ending on the 31st day of March, 1982 (both days inclusive), to wit, on March 1, 1982,

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 March, A. D. 1982.

Notary Public of the First Judicial Circuit, State of Hawaii
February 23, 1982

Hawaii Newspaper Agency, Inc.
P.O. Box 3350
Honolulu, Hawaii 96801

Attention: Legal Notice Department

Gentlemen:


Please bill the Division of Water and Land Development under the enclosed purchase order.

Very truly yours,

ROBERT T. CHUCK
Manager-Chief Engineer

Enc.
CONSIDERATION OF A WATER WITHDRAWAL AND 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 plans to consider and act on an application for a Water Withdrawal and Use Permit in the Honolulu Ground Water Control Area at its regularly scheduled meeting on Friday morning, 9:00 a.m., March 12, 1982, Room 132, Kalanikou Building, 1151 Punchbowl Street, Honolulu.

The applicant, The Kamehameha Schools, requests permission to withdraw 0.04 million gallons per day, averaged annually, from their existing wells 2052-07 and 2052-11 to supply new campus facilities.

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

State of Hawaii
BOARD OF LAND & NATURAL RESOURCES

/SUSUMU ONO, Chairman

Dated: February 24, 1982
Publish in: The Honolulu Star Bulletin
issue of March 1, 1982
Publication of "Public Notice" attached
Consideration of Water Use Permit in the
Honolulu Ground Water Control Area

Publish in: Hon. Star Bulletin, issue
of 3/1/82

(2-column by necessity with border)

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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:

RESUBMITTAL
Terms of Water Withdrawal and Use Permits

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

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

On 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 6/10/82

ITEM D-1
State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Water and Land Development
Honolulu, Hawaii

September 11, 1981

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

Gentlemen:

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

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 186 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 attachment, "Certification of Ground Water Withdrawals and Uses, Honolulu Ground Water Control Area", for the Moanalua-Kaimuki Subarea and Waialae-Hawaii Kai Subarea. A comparison of the recommended quantity for certification and the sustainable yield adopted by the Board on July 24, 1981 is tabulated below:

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<th>Sustainable Yield (mgd)</th>
<th>Recommended Certification (mgd)</th>
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<td>Moanalua-Kaimuki</td>
<td>35</td>
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<td>Waialae-Hawaii Kai</td>
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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,

[Signature]
ROBERT T. CHUCK
Manager-Chief Engineer

APPROVED FOR SUBMITTAL:

[Signature]
SUSUMU ONO, Chairman

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

ITEM D-4
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<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells Use</th>
<th>Source Capacity (mgd)</th>
<th>5-yr. Ave. Withdrawal (mgd)</th>
<th>Declared Existing Use</th>
<th>Preserved Use Withdrawal</th>
<th>Maximum Daily (mgd)</th>
<th>Total Annual (mgd)</th>
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<td>Mun. 0.500</td>
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<td>Alum. 0.504</td>
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<td>2.552</td>
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</table>
FIELD MEMORANDUM

WELL(S) NO. 2052-07, 11 ___________________________ DATE 4-28-81

LOCATION Corner of School St. and Kapalema Ave.

SUBJECT Field check of wells

PRESENT Mr. Roy Yamauchi of Kam. School, M.Y. and NI of JOWALD

FIELD NOTES Well site clearly visible from the street. Well No. 2052-11, the recently drilled well (1977) is located at corner near the pump house. Flow is measured by a flow meter along the line. The older well No. 2052-07 is located in the pump house. Flow on this well is measured by performance charts.

Both wells easily accessible however fence surrounding wells is locked.

Also note that data not available from 1975-1978.

Mr. Yamauchi stated that accurate records were not kept however, he estimates approximately 200,000 gpd.

* sent duplicate copy of declaration to Roy Y. at his request

N. Iwada
4/28/81
April 10, 1981

The Kamehameha Schools  
Kapalama Heights  
Honolulu, Hawaii 96817

Gentlemen:

Honolulu Ground Water Control Area

We acknowledge receipt on March 24, 1981, 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(s) before certification of your declared water use is made by the Board of Land and Natural Resources.

We appreciate your early filing of the declaration of existing water use.

Very truly yours,

[Signature]

Robert T. Chuck  
Manager-Chief Engineer

ES: dh
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: KONEMAKA SCHOOLS
   Phone: 842-8270

2. WATER USER'S WELL CONNECTED BATTERY OF WELLS:
   User's Well Name and Location: DEEPWELL - 1619 KONEMAKA AVE
   Tax Map Key: 1-6-27-77
   User's Well No. (s): 1
   Pump or natural flow capacity (gpm): 600
   Capacity determined by flowmeter, nameplate, orifice, etc. (specify): Nameplate
   Year pump inst./modified: 1977 / 1978

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

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

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<thead>
<tr>
<th></th>
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<td>Yr. total:</td>
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<td>1,098,480</td>
<td>22,908,360</td>
<td>18,539,180</td>
<td>18,475,700</td>
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<td>Mo. Ave.</td>
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<td>5-year average:</td>
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<td>99,810</td>
<td>1,911,860</td>
<td>1,561,530</td>
<td>1,539,640</td>
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<tr>
<td>Yr. max:</td>
<td>22,908,360</td>
<td>1,911,860</td>
<td>21,809,880</td>
<td>18,539,180</td>
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<td>6/26/79</td>
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</table>
   (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: KONEMAKA SCHOOLS

Signature: __________________________
Date: __________________________

Landowner of Well Site: KONEMAKA SCHOOLS/TJOSH ESTATE

Signature: __________________________
Date: __________________________

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

WELL(S) No. __________________________
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: 2052-11

Name or Location: Kamehameha School 2

Owner or User: Bishop Estate

Year drilled: 1977

Driller: Water Resources International

Ground Surface Elevation in feet referenced to mean sea level: 90

Casing Diameter in inches: 12

Total depth of well in feet: 334

Casing depth in feet: 129

Major Use:

- [x] Domestic
- [ ] Disposal
- [ ] Municipal
- [ ] Unused
- [ ] Lost
- [ ] Irrigation
- [ ] Sealed
- [ ] Recharge
- [ ] Industrial
- [ ] Observation
- [ ] Other (specify)

Static Water Level in feet: 26

Chloride content of water in milligrams/liter: 

Installed pump capacity in million gallons per day: 0.86

Average annual draft in million gallons per day: 

Mr. Ed Sakoda, Geologist  
Division of Water and Land Development  
Department of Land and Natural Resources  
1151 Punchbowl Street  
Honolulu, Hawaii 96813

Dear Ed:

Pursuant to your recent request, I am transmitting a list of the public water systems and sources presently on our inventory of public water systems for the newly designated Waialua and Honolulu Groundwater Control Areas. As mentioned, a public water system as defined by Chapter 49, Public Health Regulations is any system which serves 25 or more persons 60 days per year. The enclosed list, therefore, does not include sources for water systems serving less than 25 persons.

HONOLULU GROUNDWATER CONTROL AREA

<table>
<thead>
<tr>
<th>System No.</th>
<th>Source No.</th>
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<tbody>
<tr>
<td>301</td>
<td>USGS 1952-11</td>
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<td>USGS 1952-13</td>
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<td></td>
<td>USGS 1952-20</td>
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<tr>
<td></td>
<td>USGS 1952-21</td>
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<tr>
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<td>USGS 1851-20</td>
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<td>USGS 1851-11</td>
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<td>USGS 2052-07</td>
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<td>323</td>
<td>USGS 1851-07</td>
</tr>
<tr>
<td>324</td>
<td>USGS 1849-10</td>
</tr>
<tr>
<td>330</td>
<td>USGS 1749-19</td>
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</table>
NOTICE OF INTENT TO DRILL

WELL OR PROJECT NAME: KAMEHAMEHA SCHOOL

OWNER OF WELL: BISHOP ESTATE

DRILLING COMPANY: WATER RESOURCE INTL

PROPOSED USE OF WELL:
(a) Domestic
(b) Irrigation
(c) Industrial (type)
(d) Cooling (type)
(e) Waste Disposal (type)
(f) Soils Invest.
(g) Foundation Invest.
(h) Others (specify)

LOCATION OF WELL: (Attach copy of tax map, USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

TAX MAP KEY:

NEXT TO WELL # 133

Date Submitted: 5/4/77
Signature of Owner:

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, HI 96809.

DATE: 19

MISCELLANEOUS FIELD NOTES

Kop: 133

From:

Subject:

Receive:

لن

SCHOOL ST. TO MAN

WELL #133 (3-2052-07)

NOTE: WELL 3-2052-11 is also located on this lot.

No. of sheets 10-00175-3

U.S. GOVERNMENT PRINTING OFFICE

In less than 0.005 ppm

Se less than 0.05 ppm

Phenols less than 0.005 ppm

F. TAKAGAWA

Ph.D.

PUBLIC HEALTH CHEMIST

F. TAKAGAWA, Ph.D.

PUBLIC HEALTH CHEMIST

Max Li

MAY 1958

Material from USGS 4/21/61
August 24, 2004

Mr. Lance Inouye
Ralph S. Inouye Co., Ltd.
2831 Awaawaloa Street
Honolulu, HI 96819

Dear Mr. Inouye:

Well Abandonment Reports for Well Nos. 2052-07 & 11

We received your Well Abandonment Reports for the Kamehameha Schools Wells #1 & #2 (Well Nos. 2052-07 & 11) on August 17, 2004 and acknowledge that they are complete.

If you have any questions, please contact Lenore Y. Nakama of the Commission staff at 587-0218.

Sincerely,

YVONNE Y. IZU
Deputy Director

LYN:ss

c: Dwight Ho, Beylik Drilling, Inc.
Mike Lum, Kamehameha Schools
State of Hawaii  
COMMISSION ON WATER RESOURCE MANAGEMENT  
Department of Land and Natural Resources

WELL ABANDONMENT REPORT

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For further information and updates to this application form, visit [http://www.hawaii.gov/dlnr/cwrm](http://www.hawaii.gov/dlnr/cwrm).

1. State Well No. 20-52-07  
Well Name: SCHOOL STREET DEEPWELL

2. Location / Address: SCHOOL ST BUS TERMINAL  
Island: OAHU  
TMK: 1-6-27-77

3. Contractor: BEYLK DRILLING, INC.  
Name of driller who performed work: MURIS MITCHEL

4. Type of Rig / Construction: CRANE TRUCK  
Date of well sealing completion: 6/30/04

- Casing Diameter: 12 in.
- Finished Grade Elevation: 71.3 ft.
- Check Material Used: Grout Seal: ☐ Cement  
☐ Sand/Cement Ratio: 1/1

- Total Measured Depth: 320 ft.
- Measured Depth of Blank Casing: 115 ft.
- Measured Depth of Perforated Casing: NA ft.
- Measured Depth of Open Hole: 205 ft.

Remarks: The well was located in the basement of a CMU building, 8.5' below ground level.

Well Abandonment  
Contractor (print): BEYLK DRILLING, INC.  
Signature:  
C-57 Lic. No.: AC-21896  
Date: 8/9/04

Applicant (print): Ralph S. Inouye Co., Ltd.  
Signature:  
Date: 8-12-04

WAR Form (4/29/03)
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL ABANDONMENT REPORT

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at 587-0225. For further information and updates to this application form, visit http://www.hawaii.gov/dlnr/cwrm.

1. State Well No. 20-52-11 Well Name SCHOOL STREET DEEPWELL
2. Location / Address SCHOOL ST BUS TERMINAL Island OAHU TMK 1-8-27-77
3. Contractor BEYLIK DRILLING, INC. Name of driller who performed work MURIS MITCHEL
4. Type of Rig / Construction CRANE TRUCK Date of well sealing completion 6/30/04

Finished Grade Elevation 80.0 ft

Check Material Used
Grout Seal: ☐ Cement ☑ Sand/Cement Ratio 1:1

Measured Depth of Blank Casing 129 ft.

Total Measured Depth 340 ft.

Measured Depth of Perforated Casing NA ft.

Measured Depth of Open Hole 211 ft.

Remarks:

Well Abandonment Contractor (print) BEYLIK DRILLING, INC.
Signature Date 8/9/04

Applicant (print) Ralph S. Inouye Co., Ltd.
Signature Date 8-12-04

WAR Form (4/29/03)
LETTER OF TRANSMITTAL

TO: Commission of Water Resource Management
   P. O. Box 621
   Honolulu, Hawaii 96809

Attention: ____________________________

WE ARE SENDING YOU X Attached Under separate cover via _______ the following items:

____ Shop drawings  ____ Prints  ____ Plans  ____ Samples
____ Copy of letter  ____ Change Order  ____ Specifications  ____ Other

Copies  Date  No.  Description
Original  ____________________________  Well Abandonment Report - State Well No. 20-52-07
Original  ____________________________  Well Abandonment Report - State Well No. 20-52-11

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

X As required  ____ Returned for corrections  ____ Return ______ corrected prints

____ For review and comment  ____ For ____________________________

____ FOR BIDS DUE ____________________________  ____ PRINTS RETURNED AFTER LOAN TO US

REMARKS:


COPY TO ____________________________

SIGNED: ____________________________

If enclosures are not as noted, kindly notify us at once.
MEMORANDUM FOR THE RECORD

FROM: Lenore Nakama
SUBJECT: Sealing of Kam School Wells

Muris Mitchell spoke with Kevin Gooding on 6/9/04 re: the sealing of Well No. 2052-11. They put 6 yards of 1:1 and it was up 30 ft. Later, they put 16 yards of 1:1 and it was up only 3 ft. Muris requested to put in ¾ inch rock, and it was approved.
MEMORANDUM FOR THE RECORD

From: Lenore Nakama
Subject: Start of Work Notice for Sealing of Well Nos. 2052-07 & 11

5/25/04 Bill Moore of Beylik called to let us know the contractor will begin sealing work this Thursday 5/27/04. The name of the person doing the actual work is Muris Mitchell (cell: 478-2963).
TO State of Hawaii
    Department of Land and Natural Resources
    1151 Punchbowl Street, Room 227
    Honolulu, Hawaii 96809
Attention: Ms. Lenore Y. Nakama

WE ARE SENDING YOU X Attached
Under separate cover via the following items:

- Shop drawings
- Prints
- Copy of letter
- Change Order
- Plans
- Samples
- Specifications
- Other

<table>
<thead>
<tr>
<th>Copies</th>
<th>Date</th>
<th>No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>Orig.</td>
<td></td>
<td></td>
<td>Well Construction Permit to Abandon/Seal</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
- X. As requested
- Returned for corrections
- Return corrected prints
- For review and comment
- For
- FOR BIDS DUE
- PRINTS RETURNED AFTER LOAN TO US

REMARKS:

If enclosures are not as noted, kindly notify us at once.
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Kamehameha Schools #1 & #2, Well No. 2052-07 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Kamehameha Schools #1 & #2 (Well No. 2052-07 & 11) at 1624 Kaliuahine St., Kailua, TMK 1-5-27:77, subject to the Hawaii Well Construction & Pump Installation Standards (12/23/97) which include but are not limited to the following conditions:

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

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

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

6. The sealing shall be completed within two (2) years

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

Date of Approval: April 28, 2003
Expiration Date: None

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ___________________________ Date: 02/10/2004
Printed Name: MICHAEL LUM
Firm or Title: KAMEHAMEHA SCHOOLS

Contractor's Signature: ___________________________ License #: AC21896 Date: 02/10/2004
Printed Name: Dwight A
Firm or Title: BEYER DRILLING INC.

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

Attachment

USGS
Department of Health/ Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Ken Ishizaki, Engineering Concepts, Inc.
**LICENSE CLASS SCREEN**

Please click a link listed below to display the other screen.

There were 2 specific license classes on this licensee!

***** LICENSE CLASS FOR THIS LICENSEE *****
LIC: CT-457 RALPH S INOUYE CO LTD*

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<-Back  New Search->

**EMPLOYEES LIST**  | **EMPLOYERS LIST**  | **INSURANCE/BOND**  | **LICENSE CLASS**
LICENSE SCREEN

[ Look up License Type Codes-> ]
Please click a link listed below to display the other screen.

***** GENERAL LICENSEE *****

LIC ID: CT-457
NAME: RALPH S INOYUE CO LTD
ACTIVE/INACTIVE: ACTIVE
TRADE NAME:
STATUS: CURRENT, VALID & IN GOOD STANDING
ENTITY: CORPORATION
BUSINESS CODE:
ORIG LIC DATE: 7/24/59
EXPIRE DATE: 9/30/04
CLASS PREFIX: ABC
SPECIAL PRIVILEGE:
RESTRICTION:
EDUCATION CODE:
BUSINESS ADDR: 2831-B AWAAWALOA ST HONOLULU HI 96819
MAILING ADDR:

Click here to enter search criteria for prior complaints history ->
For prior complaints and disciplinary history, contact licensing and business information center at (808)587-3295.

<-Back New Search->

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Hawaii State homepage || DCCA || Professional and Vocational Licensing Division

TO State of Hawaii  
Department of Land and Natural Resources  
P. O. Box 621  
Honolulu, Hawaii  96809  

Attention:  Mr. Peter T. Young, Chairperson  
Commission on Water Resource Management  

WE ARE SENDING YOU  
X Attached  
Under separate cover via  
the following items:  

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Copies | Date | No.  |
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Orig. |      |     |

Well Construction Permit to Abandon/Seal  

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 required  
Returned for corrections  
Return corrected prints  

For review and comment  
For  

FOR BIDS DUE  
PRINTS RETURNED AFTER LOAN TO US

REMARKS:  


COPY TO  


SIGNED:  

If enclosures are not as noted, kindly notify us at once.
In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Kamehameha Schools #1 & 2 (Well No. 2052-07 & 11) at 1624 Kailuhine St., Oahu, TMK 1-6-27:77, subject to the Hawaii Water Use, Wells, and Stream Diversion Works Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

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

6. The sealing shall be completed within two (2) years.

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

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ______________________________ Date: 02-10-04

Printed Name: Michael Lum Firm or Title: General Counsel

Contractor's Signature: ______________________________ License #: ABC-457 Date: 02-18-04

Printed Name: Herbert S. Inouye Firm or Title: Vice President

Ralph S. Inouye Co., Ltd.

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

Attachment:

USGS Department of Health's Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Ken Ishizaki, Engineering Concepts, Inc.
February 17, 2004

Mr. Mike Lum
Kamehameha Schools
567 South King Street
Honolulu, HI 96813

Dear Mr. Lum:

Well Abandonment Permit Applications for Well Nos. 2052-07 & 11

This follows a February 10, 2004 telephone call from my staff, notifying you that the Well Abandonment Permit for Well Nos. 2052-07 & 11, issued on May 8, 2003 (attached), is still valid. As such, we are returning your applications for new permits to abandon/seal these sources.

Please sign, and have your contractor sign, the attached copy of the permit and return a fully executed permit to our office prior to the start of any work.

If you have any questions about your permit application, please contact Lenore Y. Nakama of the Commission staff at 587-0218.

Sincerely,

[Signature]

for

ERNEST Y.W. LAU
Deputy Director

LYN:ss
Attachments

c: Dwight Ho, Beylik Drilling
To: Mike Lum
Company: Kamehameha Schools
Fax Number: 534-3848
Phone Number: 534-3942

From: Lenore Y. Nakama
Date: February 10, 2004

Subject: Well Abandonment Permit for Well Nos. 2052-07 & 11

Notes/Comments:

Hi Mike,

As discussed, I am transmitting a copy of the abandonment permit, which is still valid. Please sign and have your contractor sign the permit and return an executed copy to us. Please do not forget to submit a Well Abandonment Report after the work is done.

I will be sending another copy of the abandonment permit via regular mail, along with your new applications with a cover letter explaining that new applications are unnecessary.

Please call me at 587-0218 if you have any questions.

Aloha,
Lenore
**DOCUMENT NO.:**

**DATE:** 2/6/04

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**TOTAL** $50.00

**REMARKS:**

LINE (1) Well Nos. 2052-07 & 11
LINE (2)
LINE (3)
LINE (4)
LINE (5)
LINE (6)
LINE (7)
LINE (8)
LINE (9)
LINE (10)

2/10/04 Fiscal already deposited the check. Application does say "non-refundable" so we'll refund only if KG requests. (P.O. will take ~ 6 weeks to process)
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96819. Application must be accompanied by 5 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0223.

For further information and updates to this application form, visit http://www.state.hi.us/dlnr/cwm.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)

1. (a) WELL OWNER: Kamehameha Schools
   Mailing Address: 567 South King Street, Suite 132, Honolulu, HI 96813
   Fax: 808-534-3848
   Contact Person: Mike Lum
   Phone: 808-534-3942
   Email: 

   (b) LAND OWNER: Kamehameha Schools
   Mailing Address: 567 South King Street, Suite 132, Honolulu, HI 96813
   Fax: 808-534-3848
   Contact Person: Mike Lum
   Phone: 808-534-3942
   Email: 

   (c) CONTRACTOR: Beylik Drilling, Inc.
   Mailing Address: 91-259A Olail Street, Kapolei HI 96707
   Fax: 808-682-5554
   Contact Person: Dwight Ho
   Phone: 808-682-5554
   Email: ho@beylik.com

2. WELL NAME: School Street Deepwell
   Island: Oahu
   Address: School St Bus Terminal
   Tax Map Key: 1  6  27  77

   (a) portion of a 7.5-Mile Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
   (b) a property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK: (check all that apply)
   - Construct New Well
   - Install New Pump*
   - Modify Existing Well*
   - Modify Pump *
   - Abandon/Seal
   - *(State Well No.: 20-52-07) (if unknown, please call Commission at 587-0225)

4. CONSTRUCTION:
   - Drilled
   - Dig
   - Shaft
   - Tunnel
   - Is this well part of a battery of wells? Yes/No (Please describe)

5. PROPOSED PUMPING RATE:
   - Water Rate: NA gallons per minute

6. PROPOSED USE: (check all that apply)
   - Municipal (including hotels, stores, etc.)
   - Domestic (individual, noncommercial water system)

   - Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections? Yes/No
   - Irrigation (crop)
   - No. of Acres: 
   - Other (explain): 

7. (a) PROPOSED AMOUNT OF WITHDRAWAL:
   - Method of Flow Measurement: Flowmeter
   - Open-pipe
   - Weir
   - Orifice
   - Other (explain):
   - Gallons per day

8. OTHER IMPORTANT INFORMATION:

9. ARCHAEOLOGICAL REQUIREMENTS:

10. REMARKS, EXPLANATIONS:

NOTE: Signing below indicates the signatories understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) payment is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of surface water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought into compliance, and any work done while the permit is in suspension may result in fines of up to $1000/day.

Well Owner
Kamehameha Schools
Signature: Michael J
Date: 1/22/04

Landowner
Kamehameha Schools
Signature: Michael J
Date: 1/22/04

Contractor
Beylik Drilling, Inc.
Signature: Dwight Ho
Date: 1/20/04
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

☐ Well Construction and/or ☐ Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 521, Honolulu, Hawaii 96806. Application must be accompanied by 5 copies and a nonrefundable filing fee of $35.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 808-587-0225. For further information and updates to this application form, visit http://www.state.hawaii.gov/wrm.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)

1. (a) ☐ WELL OWNER: Kamehameha Schools  
Contact Person: Mike Lum  
Mailing Address: 567 South King Street, Suite 132, Honolulu, HI 96813  
Phone: 808-534-3948  
Fax: 808-534-3948  

(b) ☐ LAND OWNER: Kamehameha Schools  
Contact Person: Mike Lum  
Mailing Address: 567 South King Street, Suite 132, Honolulu, HI 96813  
Phone: 808-534-3948  
Fax: 808-534-3948  

(c) ☐ CONTRACTOR: Beylik Drilling, Inc.  
Contact Person: Dwight Ho  
Mailing Address: 91-259A Olai Street, Kapolei HI 96707  
Phone: 808-682-5554  
Fax: 808-682-5554  

WELL & PUMP INFORMATION:  

2. WELL NAME: School Street Deepwell  
Island: Oahu  
Address: School St Bus Terminal  
Tax Map Key: 1 - 6 - 27 - 77

Attach: (a) portion of a 7.5-Minute Series USGS topographic map (scale: 1:24,000) with well location labeled and include the name of the landowner (b) property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK:  
☐ Construct New Well  
☐ Modify Existing Well  
☐ Abandon/Seal

"State Well No.: 20-52-11" (if unknown, please call Commission at 808-587-0225)

4. CONSTRUCTION:  
☐ Drilled  ☐ Dug  ☐ Shaft  ☐ Tunnel

Is this well part of a battery of wells? ☐ Yes ☐ No (Please describe)

5. PROPOSED PUMPING RATE:  
☐ NA gallons per minute

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

☐ Domestic (individual, noncommercial water system)

Does this well serve 25 or more people at least 60 days per year or have 15 or more service connections? ☐ Yes ☐ No

☐ Irrigation (crop)  
No. of Acres: ☐ NA

☐ Military

7. (a) PROPOSED AMOUNT OF WITHDRAWAL:  
☐ NA gallons per day

(b) METHOD OF FLOW MEASUREMENT:  
☐ Flowmeter  ☐ Open-pipe  ☐ Weir  ☐ Orifice  ☐ Other (explain)  

OTHER IMPORTANT INFORMATION:

8. LEGAL REQUIREMENTS: If required, these permits must be obtained before the Commission can legally issue a permit. Conservation District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at 808-504-14

☐ Not Required  
If required, date approved __________

Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEC at 808-4165

☐ Not Required  
If required, date published in OEC bulletin Special Management Area Permit (SMAP) To determine if a SMAP is necessary, call: on Oahu, 527-5374; on Hawaii, 961-8288; for Maui county, 270-7235; on Kauai, 241-6677.

☐ Not Required  
If required, date approved __________

9. ARCHEOLOGICAL REQUIREMENTS: To find out if an archeological work is required: on Oahu, call Elaine Jouzdane at 692-8027; on Hawaii, call Mary Anne Maitre at 327-3690, for Maui county, call Cathy Dagner at 692-8023, on Kauai, call Nancy McMahon at 742-7033.

☐ Not Required  
If required, please attach letter from DLNR Historic Preservation

10. REMARKS, EXPLANATIONS:

NOTE: Signing below indicates the signatories understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought into compliance, and any work done while the permit is in suspension may result in fines of up to $1000/day.

Well Owner Kamehameha Schools  
Landowner Kamehameha Schools  
Contractor Beylik Drilling, Inc.  

Signature  
Signature  
Signature  

Date 1/22/04  
Date 1/22/04  
Date 1/20/04

For official use only  
Latitude Aquifer System No.  
Longitude State Well No.  

(Continued on back...
TO

COMMISSION ON WATER RESOURCE MGMT.

P.O. BOX 621

HONOLULU, HI 96809

WE ARE SENDING YOU

☐ Attached  ☐ Under separate cover via

☐ Shop drawings  ☐ Prints  ☐ Plans  ☐ Samples  ☐ Specifications

☐ Copy of letter  ☐ Change order  ☐

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THERE 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 BIDS DUE  X FOR PROCESSING  ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

SIGNATURE:

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

DATE: 2-4-04  JOB NO.

ATTENTION

RE:

APPLICATION FOR PERMIT

STATE WELL NO. 20-52-07

STATE WELL NO. 20-52-11

SIGNATURE:

RECEIVED

COMMISSION ON WATER RESOURCE MGMT.

DATE: FEB 6  11:54

SIGNATURE:

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

DATE: FEB 6  11:54

SIGNATURE:

9358H/C FILE

SIGNED:

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

SIGNATURE:

DATE: FEB 6  11:54
May 8, 2003

Ref:2052-07&11.wap

Mr. Mike Lum
Kamehameha Schools
567 S. King St.
Honolulu, HI  96813

Dear Mr. Lum:

Well Abandonment Permit
Kamehameha Schools #1 & #2 (Well No. 2052-07 & 11)

Enclosed are two (2) copies of your approved Well Construction Permit for the captioned well(s) which authorizes well abandonment/sealing activities. As part of the Chairperson's approval, the following special conditions were added and are part of your permit under Permit Condition 7:

Special Conditions

1. Separate Well Abandonment Reports shall be filed for each well.

To validate your permit, please sign and have the contractor sign both permit originals and return one for our files.

IMPORTANT - The well owner is responsible for all conditions of the permit. This includes ensuring that your licensed contractor, submits a completed Well Abandonment Report form (enclosed) within sixty (60) days after the well construction work is completed. Be advised that you may be subject to fines of up to $1000 per day for any violations of your permit conditions.

If you have any questions, please call Lenore Y. Nakama of the Commission staff at 587-0218.

Sincerely,

Peter T. Young
Chairperson

Enclosures

c: Ken Ishizaki, Engineering Concepts, Inc.
WELL CONSTRUCTION PERMIT TO ABANDON/SEAL

Kamehameha Schools #1 & #2, Well No. 2052-07 & 11

In accordance with Department of Land and Natural Resources, Commission on Water Resource Management's Administrative Rules, Section 13-168, entitled "Water Use, Wells, and Stream Diversion Works", this document permits the abandonment/sealing of Kamehameha Schools #1 & #2 (Well No. 2052-07 & 11) at 1624 Kalakahi St., Oahu, TMK 1-6-27:77, subject to the Hawaii Well Construction & Pump Installation Standards (1/23/97) which include but are not limited to the following conditions:

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

2. The owner or operator of any well which has been determined by the department or voluntarily declared by the owner or operator to be abandoned as defined in §13-168-2, after written notification, shall be required, at owner's or operator's expense, to re-case, cement, plug back, cap, or otherwise repair the well or fill and seal the well with cement in a manner approved by the commission.

3. The well construction permit application is incorporated into this permit by reference and is subject to the Hawaii Well Construction & Pump Installation Standards (January 23, 1997; HWCPIS). If the HWCPIS are not followed and as a consequence water is wasted or contaminated, a lien on the property may result.

4. The Well Abandonment Report form (attached) shall be submitted to the Commission on Water Resource Management within sixty (60) days after completion of the work.

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

6. The sealing shall be completed within two (2) years

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

Date of Approval: April 28, 2003
Expiration Date: None

I have read the conditions and terms of this permit and understand them. I accept and agree to meet these conditions as a prerequisite and underlying condition of my ability to proceed. I also understand that non-compliance with any permit condition may be grounds for revocation and fines of up to $1000 per day.

Permittee's Signature: ______________________________ Date: __________

Printed Name: _______________________________ Firm or Title: ______________________________

Contractor's Signature: _________________________ License #. __________ Date: __________

Printed Name: _______________________________ Firm or Title: ______________________________

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

Attachment

USGS
Department of Health Safe Drinking Water, Wastewater, and Clean Water Branches
Honolulu Board of Water Supply
Ken Ishizaki, Engineering Concepts, Inc.
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MARKS: LINE (1)  WELL NO. 2052-07, 11
LINE (2)
LINE (3)
LINE (4)

THIS PORTION IS NON-NEGOTIABLE

KAMEHAMEHA SCHOOLS

VOID 90 DAYS AFTER

04/17/03

PAY THIS AMOUNT

$25.00

DOLLARS

STATE OF HAWAII-DLNR
1151 PUNCHBOWL ST #310
P O BOX 821
HONOLULU HI 96809

TWO SIGNATURES REQUIRED FOR CHECKS GREATER THAN $100,000.

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

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DOLLARS

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1151 PUNCHBOWL ST #310
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TWO SIGNATURES REQUIRED FOR CHECKS GREATER THAN $100,000.

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LETTER OF TRANSMITTAL

TO: Department of Land and Natural Resources  
Commission on Water Resource Management  
Kalanikau Bldg., Room 227  
1151 Punchbowl Street, Honolulu, HI

WE ARE SENDING YOU $ Attached  
☐ Shop drawings  
☐ Copy of letter

☐ Under separate cover via ____ the following items
☐ Prints  
☐ Plans  
☐ Samples
☐ Specifications

☐ Change order  
☐ Other: See below

<table>
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<th>DATE</th>
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<th>DESCRIPTION</th>
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<td>Application for Permit (Abandon/Seal Well 20-52-07)</td>
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<tr>
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THESE ARE TRANSMITTED as checked below:

☐ For approval  
☒ For your use  
☐ As requested  
☐ For review & comment

☐ Resubmit ____ copies for approval
☐ Submit ____ copies for distribution
☐ Return ____ copies for corrections

REMARKS:  
For Processing.

COPY TO:  
SIGNED: Ken Ishizaki

If enclosures are not as noted, kindly notify us at once.
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

□ Well Construction and/or □ Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 5 copies and a non-refundable filing fee of $25.00, payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application, visit http://www.state.hi.us/dlnr/cwrm.

APPLICANT INFORMATION:

Kamehameha Schools
Mailing Address: 567 S. King St. Honolulu, Hawaii 96813
Phone: 534-3942
E-mail: MILUNKSBE.EDU
Fax: (808)534-3848

LAND OWNER: Kamehameha Schools
Contact Person: Mike Lum

CONTRACTOR: To be submitted later
Contact Person: 
Phone: 
Fax: 
E-mail: 

WELL & PUMP INFORMATION:

Kamehameha School #1
Island: Oahu
Address: 1624 Kaikuhine St.
Tax Map Key: 1. 6. 27. 77

WELL NAME:

Tax Map Key:
Attach: (a) portion of a 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
(b) a property tax map, showing well location referenced to established property boundaries

PROPOSED WORK:

□ Construct New Well
□ Modify Existing Well
□ Abandon/Seal

Install New Pump
Modify Pump

Add/Remove Pump

*State Well No.
20-52-07 (if unknown, please call Commission at 587-0225)

CONSTRUCTION:

□ Drilled
□ Dug
□ Shaft
□ Tunnel

Is this well part of a battery of wells? □ Yes □ No (Please describe)

PROPOSED PUMPING RATE:

_ gallons per minute

PROPOSED USE:

□ Municipal (including hotels, stores, etc.)
□ Domestic (individual, noncommercial water system)
□ Industrial

□ Irrigation (crop)
□ Military
□ Other (explain):

No. of Acres: ________________

AMOUNT OF WITHDRAWAL:

□ Flowmeter □ Open-pipe □ Weir □ Office □ Other (explain)

METHOD OF FLOW MEASUREMENT:

□ Flowmeter □ Open-pipe □ Weir □ Office □ Other (explain)

OTHER IMPORTANT INFORMATION:

LEGAL REQUIREMENTS: If required, these permits must be obtained before the Commission can legally issue a permit.

Conservation District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at 587-0414

Not Required

If required, date approved ________________

Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEGC at 586-4185

Not Required

If required, date published in OEGC bulletin ________________

Special Management Area Permit (SMAP) To determine if a SMAP is necessary: on Oahu, call 527-5374; on Hawaii, call 961-6288; for Maui county, call 270-7235; on Kauai, call 241-6577.

Not Required

If required, date approved ________________

REMARKS, EXPLANATIONS:

☐ (if more space is needed, please attach additional sheet)

NOTE: Signing below indicates the signatories understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of cumulative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $1000/day.

Well Owner: KAMEHAMEHA SCHOOLS
Date: 4/11/03

Landowner: KAMEHAMEHA SCHOOLS

Contractor: KAMEHAMEHA SCHOOLS

Signature: Michael Lum

Date: 4/11/03

For official use only
Latitudes ____________ Aquifer System No. ____________
Longitudes ____________ State Well No. ____________
10. PROPOSED WELL SECTION

(Please attach schematic if different from diagram provided below)

Minimum of 2’ Radius & 4” Thick Concrete Pad (to contain benchmark surveyed to nearest 0.01 ft.)

Ground Elevation: __ ft., msl

Elevation at top of casing __ ft., msl

Cement Grout: __ ft.
(min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

Annular space between hole and casing (min.3”):
__ in.

Rock or Gravel Packing:
Nominal Diameter: ____________ in.
Nominal Diameter: ____________ in.

Total Depth __________ ft.

Solid Casing: (≥ 90% x (Ground Elev.-Water Level Elev))
Total Length: __________ ft.
Nominal Diameter: __________ in.
Wall Thickness: __________ in.
Bottom Elevation: __________ ft., msl

Open Casing:
□ Perforated
□ Screen
Total Length: __________ ft.
Nominal Diameter: __________ in.
Wall Thickness: __________ in.
Bottom Elevation: __________ ft., msl

Open Hole:
Length: __________ ft.
Diameter: __________ in.
Bottom Elevation: __________ ft., msl

Solid Casing Material:
Carbon Steel: compliant with (check one or more): □ ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
And compliant with (check one or more): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other
Stainless Steel: (check one):
□ ASTM A409 (production wells) □ ASTM A312 (monitor wells)
ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) □ Schedule 40 □ Schedule 80
PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): □ Schedule 40 □ Schedule 80 □ Schedule 120
Thermoset Plastic: (check one)
□ Filament Wound Resin Pipe conforming to ASTM D2996
□ Centrifugally Cast Resin Pipe conforming to ASTM D2997
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

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* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = \( \frac{\text{Water Elevation} - \text{Bottom Elevation of Well Limit}^+}{4} \)

Example: Estimated = 2 ft. Water Level Elev. Bottom Elevation of Well Limit = \( \frac{2 - \text{Bottom Elevation of Well Limit}^+}{4} \) = -15.5 ft.

For production wells:
□ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
□ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
□ PTFE Fluorocarbon Tubing conforming to ASTM D3296
□ FEP Fluorocarbon Tubing conforming to ASTM D3296

Solid Casing Material:
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□ FEP Fluorocarbon Tubing conforming to ASTM D3296
State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
APPLICATION FOR PERMIT

Well Construction and/or Pump Installation

Instructions: Please print in ink or type and send completed application with attachments to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. Application must be accompanied by 5 copies and a non-refundable filing fee of $25.00 payable to the Dept. of Land and Natural Resources. The Commission may not accept incomplete applications. For assistance, call the Regulation Branch at 587-0225. For further information and updates to this application, visit http://www.state.hi.us/dlnr/wrm.

APPLICANT INFORMATION: (Fill out all three, if applicable, and place a check next to the primary contact)

1. (a) WELL OWNER: Kamehameha Schools Bishop Estate
Mailing Address: 567 S. King St., Honolulu, Hawaii 96813
Contact Person: Mike Lum
Fax: (808) 534-3848
E-mail: MILUM@KSB.E.UED
(b) LAND OWNER: Kamehameha Schools Bishop Estate
Mailing Address: 567 S. King St., Honolulu, Hawaii 96813
Fax: (808) 534-3848
E-mail: MILUM@KSB.E.UED
(c) CONTRACTOR: To be submitted later
Mailing Address:
Fax: ____________________________
E-mail: ____________________________
Lic #: ____________________________
(circle one: C-57, C-57a, or A)

WELL & PUMP INFORMATION: (Please fill in the diagram on the back of this form.)

2. WELL NAME: Kamehameha School #2 Island: Oahu
Address: 1624 Kaikuhine St. Tax Map Key: 1 27 77
Attach: (a) portion of a 7.5-Minute Series USGS topographic map (scale 1:24,000) with well location labeled and include the name of the quad map
(b) a property tax map, showing well location referenced to established property boundaries

3. PROPOSED WORK: (check all that apply)
   - Construct New Well
   - Modify Existing Well
   - Abandon/Seal*
   - Install New Pump*
   - Modify Pump*
   - State Well No.: 20-52-11
     (if unknown, please call Commission at 587-0225)

4. CONSTRUCTION:
   - Drilled
   - Dug
   - Shaft
   - Tunnel
   Is this well part of a battery of wells? □ Yes □ No (Please describe)

5. PROPOSED PUMPING RATE: ____________ gallons per minute

6. PROPOSED USE: (check all that apply)
   - Municipal (including hotels, stores, etc.)
   - Industrial
   - Domestic (individual, noncommercial water system)
   - Irrigation (crop)
   - Military
   - No. of Acres:
   - Other (explain):

7. (a) PROPOSED AMOUNT OF WITHDRAWAL: ____________ gallons per day
(b) METHOD OF FLOW MEASUREMENT: □ Flowmeter □ Open-pipe □ Weir □ Orifice □ Other(explain)

OTHER IMPORTANT INFORMATION:

8. LEGAL REQUIREMENTS: If required, these permits must be obtained before the Commission can legally issue a permit.
   - Conservation District Use Permit (CDUP) To find out if a CDUP is necessary, call DLNR Land Division at 587-0414
   - Environmental Impact Statement (EIS) or Environmental Assessment (EA) To determine if an EIS or EA is necessary, call OEQC at 585-4185
   - Special Management Area Permit (SMA) To determine if an SMA is necessary, on Oahu, call 527-5374; on Hawaii, call 961-8288; for Maui county, call 270-7235; on Kauai, call 241-6677.
   - If Not Required □ If required, date approved ____________________________

9. REMARKS, EXPLANATIONS: ____________________________ (if more space is needed, please attach additional sheet)

NOTE: Signing below indicates the signatories understand and swear that the information provided on this application is accurate and true to the best of their knowledge. Further, the signatories understand that approval of this application attaches the following standard conditions: 1) the proposed work is to be completed within two (2) years of the approval date; 2) the contractor shall submit to the Commission a well completion/abandonment report within 60 days after the completion date of the permitted work; 3) monthly water use data shall be submitted to the Commission; 4) such approval shall not constitute a determination of correlative water rights and shall not guarantee the pump capacity or future use up to the permitted pump capacity; 5) in the event that the application is not completed correctly, any permit may be suspended until the item is brought in to compliance, and any work done while the permit is in suspension may result in fines of up to $1000/day.

Well Owner: KAMEHAMEHA SCHOOLS
Signature: ____________________________ Date: 4/11/03
Landowner: KAMEHAMEHA SCHOOLS
Signature: ____________________________ Date: ____________________________
Contractor: KAMEHAMEHA SCHOOLS
Signature: ____________________________ Date: ____________________________

For official use only
Latitude: ____________________________
Longitude: ____________________________
Aquifer System No: ____________________________
State Well No: ____________________________
For non-salt water Basal Carbon Stainless Steel:
Thermoset Plastic:
PVC Plastic conforming to ABS Stainless Steel:
be submitted in the
referenced to a benchmark which has been licensed by the State.

Refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your as-built is in compliance with applicable standards.

Total Depth

FT.

Solid Casing Material:
Carbon Steel: compliant with (check one or more): ANSI/AWWA C200 □ API Spec. 5L □ ASTM A53 □ ASTM A139
And compliant with (check one or more): □ ASTM A242 □ Type E □ Type S □ Grade B □ Other
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* The approximate elevation must be referenced to mean sea level (msl) at the time of application filing. Final elevations of well components shall be submitted in the Well Completion/Well Abandonment reports and referenced to a benchmark which has been established by a surveyor licensed by the State.

For non-salt water Basal Wells - bottom elevation of well should not be deeper than 1/4 of aquifer thickness or, Bottom Elevation of Well Limit = \( \text{Water Elevation} - \frac{4}{2} \times \text{Water Level Elev.} \)
Example: Estimated + 2 ft. Water Level Elev. = \( \text{Bottom Elevation of Well Limit} = \left( 2.5 \times \frac{5}{2} \right) = -8.5 \text{ ft.} \)
DESCRIPTION

Date of report: 6/24/77
Person filing report: D.R. Craddick

A. OWNER: BISHOP ESTATE
B. GENERAL LOCATION: KAPALAMA
C. DRILLING COMPANY: WATER RESOURCES INTERNATIONAL
D. TYPE OF RIG SH 3500 DRILLING COMPLETED 7/17 DRILLER: S. Vierra

E. ELEVATION, msl: Top of drilling platform ft. Bench mark and method used to determine Height of drilling platform above ground surface ft. elevation: +90
F. HOLE SIZE: 10 inch dia. to 129 ft. below drilling platform. Ground 11 inch dia. to 350 ft. below drilling platform. Ground
Hole dia. to ft. below drilling platform.

G. CASING INSTALLED: 12 in. I.D. x 3/4 in. wall solid section to 129 ft. below drilling platform. Ground 12 in. I.D. x 3/4 in. wall perforated section to 350 ft. below drilling platform. Ground
Type of perforation

H. ANNULUS: Grouted 129 ft. to 129 ft. below drilling platform. Ground Gravel packed 31 ft. to 31 ft. below drilling platform.

I. PERMANENT PUMP INSTALLATION:
- Pump type, make, serial no: 17-3881 FLOWAY Capacity 60 g.p.m.
- Motor type, H.P., voltage, r.p.m: GE 40 460 1800
- Depth of pump intake setting 110 ft. below Discharge Hd. which elevation is ft.
- Depth of bottom of airline 100 ft. below Discharge Hd. which elevation is ft.

HYDROLOGY

J. INITIAL WATER LEVEL below drilling platform. Date of measurement.
K. INITIAL CHLORIDE: 50 ppm, total depth of well ft. below drilling platform

L. PUMPING TESTS:
- Reference point (R.P.) used: which elevation is ft. below drilling platform.
- Date:
  - Start water level: ft. below R.P.
  - End water level: ft. below R.P.
  - Depth of well: ft. below R.P.

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<th>Drawdown (ft.)</th>
<th>Cl- (ppm)</th>
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<td>450</td>
<td>1.75</td>
<td>75</td>
</tr>
</tbody>
</table>

SUBSURFACE FORMATION

M. DRILLER’S LOG:

Depth, ft. | Rock Description & Remarks | Water Level, ft. | Depth, ft. | Rock Description & Remarks | Water Level, ft.
--- | -------------------------- |------------------ | --- | -------------------------- |------------------
0 to 39 | Soft | 240 to 334 | 5 ft.
40 to 129 | Med. Hard | to |
129 to 160 | Hard | to |
160 to 209 | 5 ft. | to |
209 to 240 | Hard | to |

N. REMARKS:

INSTRUCTIONS: Send three(3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, Hawaii 96809.

FOR OFFICIAL USE

Latitude 21° 20' 17"
Longitude 157° 52' 11"
Well No. 2052-11
NOTICE OF INTENT TO DRILL

WELL OR PROJECT NAME: KAMEHAMEHA SCHOOL W#2

OWNER OF WELL: BISHOP ESTATE

DRILLING COMPANY: WATER RESOURCE INT'L

PROPOSED USE OF WELL:
(a) Domestic  
(b) Irrigation  
(c) Industrial (type)  
(d) Cooling (type)  
(e) Waste Disposal (type)  
(f) Soils Invest.  
(g) Foundation Invest.  
(h) Others (specify)

LOCATION OF WELL: (Attach copy of tax map, USGS topographic map, plantation field map, road map, or prepared drawing showing exact location. If not available, prepare a hand-drawn sketch map (not necessarily to scale) in the space below showing sufficient landmarks, distances, and directions for location in the field)

TAX MAP KEY:

NEXT TO WELL # 133

FOR OFFICIAL USE

INSTRUCTIONS: Send three (3) copies to: Manager-Chief Engineer, Division of Water and Land Development, P. O. Box 373, Honolulu, HI 96809.

from
ROY YAMAGUCHI
Head, Physical Plant

Pump Info. - Both are the same.

PEABODY Flowby Pump.
SIZE 10
TYPE DCM
STAGE 5
40 H.P.
600 GPM
1770 RPM
TDH - 170

G.E. Motor Hollow Shaft.
40 H.P. 1750 RPM. 3 PHASE
230/460 VOLTS.
100.2/501 AMPS.
TYPE K
FRAME G324T16
MODEL. 5KG2374N584A
SER. # GNJ 70645Z

NO. 1 PUMP. SER.# 78-1850
NO. 2. SER. # 77-3886

Any questions please feel to call me.
Tel. 842-8270

THE KAMEHAMEHA SCHOOLS • Honolulu, Hawaii
"OVER"
Note. 1 - Flowmeter for both pumps. We alternate pumps.
**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.

<table>
<thead>
<tr>
<th>Well Number:</th>
<th>2092-07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name or Location:</td>
<td>Kapalama Ave.</td>
</tr>
<tr>
<td>Owner or User:</td>
<td>Kamakaua schools/Bishop Estate</td>
</tr>
<tr>
<td>Year drilled:</td>
<td>1927</td>
</tr>
<tr>
<td>Driller:</td>
<td>McCandless</td>
</tr>
<tr>
<td>Casing Diameter in inches:</td>
<td>12 / 12&quot;</td>
</tr>
<tr>
<td>Total depth of well in feet:</td>
<td>321 / 333.5'</td>
</tr>
<tr>
<td>Casing depth in feet:</td>
<td>118 / 129'</td>
</tr>
<tr>
<td>Major Use:</td>
<td>Domestic 1  Disposal 0  Municipal 0  Unused 0  Irrigation 0  Sealed 0  Lost 0  Industrial 0  Observation 0  Recharge 0  Other (specify)</td>
</tr>
<tr>
<td>Static Water Level in feet:</td>
<td>29.7 / 26'</td>
</tr>
<tr>
<td>Chloride content of water in milligrams/liter:</td>
<td>39-190</td>
</tr>
<tr>
<td>Installed pump capacity in million gallons per day:</td>
<td>0</td>
</tr>
<tr>
<td>Average annual draft in million gallons per day:</td>
<td>0.2</td>
</tr>
</tbody>
</table>
The Kamehameha Schools  
Kapalama Heights  
Honolulu, Hawaii 96817

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 2 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.

Well Number: 2052-07

Name or Location: Kapalama Ave.

Owner or User: Bishop Estate

Year drilled: 1927

Driller: McCandless

Ground Surface Elevation in feet referenced to mean sea level: 80

Casing Diameter in inches: 12

Total depth of well in feet: 321

Casing depth in feet: 116

Major Use:

☒ Domestic ☐ Disposal
☐ Municipal ☐ Unused ☐ Lost
☐ Irrigation ☐ Sealed ☐ Recharge
☐ Industrial ☐ Observation ☐ Other (specify)

Static Water Level in feet: 29.7

Chloride content of water in milligrams/liter: 39-180

Installed pump capacity in million gallons per day:

Average annual draft in million gallons per day: 0.2
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: 2092-11

Name or Location: Kamehameha School 2

Owner or User: Bishop Estate

Year drilled: 1977

Driller: Water Resources International

Ground Surface Elevation in feet referenced to mean sea level: 90

Casing Diameter in inches: 12

Total depth of well in feet: 334

Casing depth in feet: 129

Major Use:

☑ Domestic ☐ Disposal
☐ Municipal ☐ Unused ☐ Lost
☐ Irrigation ☐ Sealed ☐ Recharge
☐ Industrial ☐ Observation ☐ Other (specify)

Static Water Level in feet:

Chloride content of water in milligrams/liter:

Installed pump capacity in million gallons per day: 0.86

Average annual draft in million gallons per day:
<table>
<thead>
<tr>
<th>Initial</th>
<th>Name</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Robert T. Chuck</td>
<td>See Me</td>
</tr>
<tr>
<td></td>
<td>Walter O. Watson</td>
<td>Take action by</td>
</tr>
<tr>
<td></td>
<td>Takeo Fujii</td>
<td>Route to your branch</td>
</tr>
<tr>
<td></td>
<td>James Yoshimoto</td>
<td>Review &amp; comment</td>
</tr>
<tr>
<td></td>
<td>Hong Fong Chang</td>
<td>Draft reply by</td>
</tr>
<tr>
<td></td>
<td>Albert Ching</td>
<td>For Information</td>
</tr>
<tr>
<td></td>
<td>George Morimoto</td>
<td></td>
</tr>
<tr>
<td></td>
<td>George Matsumoto</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Manabu Tagomori</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Harold Sakai</td>
<td>Jane Sakai</td>
</tr>
<tr>
<td></td>
<td>Daniel Lum</td>
<td>Doris Hamada</td>
</tr>
<tr>
<td></td>
<td>Herbert Morimatsu</td>
<td>Lorraine Nanbu</td>
</tr>
<tr>
<td></td>
<td>Paul Matsuo</td>
<td>Jean Siarot</td>
</tr>
<tr>
<td></td>
<td>Noboru Kaneshiro</td>
<td>Elsie Yonamine</td>
</tr>
<tr>
<td></td>
<td>Leslie Asari</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Plot plan missing.
Mr. Robert Chuck  
Manager and Chief Engineer  
Dept. of Land & Natural Resources  
Division of Water & Land Development  
P. O. Box 373  
Honolulu, Hawaii 96809

Dear Mr. Chuck:

Subject: Well Application and Permit to Water Resources International to Drill a Well at Kamehameha Schools

Enclosed for your information and files are copies of the well application and approved well permit issued to Water Resources International for the drilling of an artesian well at Kamehameha Schools.

Please call Chester Lao at 548-5276 if you have any questions regarding this permit.

Very truly yours,

Herbert H. Minakami  
Chief, Planning and Engineering Division

Enc.

Pure Water...man’s greatest need – use it wisely
TO: Water Resources International  
2828 Paa Street, Room 2085  
Honolulu, Hawaii 96819  

ATTN: Mr. Ed. Craddick, President  

Your application of July 14, 1977 to drill a well has been approved in accordance with our Rules and Regulations for the Protection, Development and Conservation of Water Resources in the City and County of Honolulu. Your completion of the well on July 14, 1977 despite warnings not to proceed without a valid permit is being pursued. Moreover, the casing length should have been at least 150 feet rather than 129 feet.

You are hereby granted a permit to drill a well at TMK: 1-16-27: 77 in accordance with the drawings submitted with your application.

This permit is granted subject to the Rules and Regulations of the Board of Water Supply and the following conditions:

1. Mr. Chester Lao of the Board of Water Supply, telephone 548-5276, shall be notified before any work covered by this permit commences.

2. An accurate metering device shall be installed to record output from the well.

3. The combined average pumpage from this well and the existing well, number 2052-07 (old 133), shall not exceed 150,000 gallons per day.

4. Electric logging of the well shall be performed by the Board of Water Supply.

5. A hole shall be drilled in the pump base to permit water levels to be measured.
6. A log of formations and water levels encountered during drilling and pump testing of the as-built well and system connections to the well shall be submitted to the Board of Water Supply at the completion of construction.

We will not issue a permit in the future if work is done before receiving approval.

Edward Y. Hirata  
Manager and Chief Engineer  
Board of Water Supply

JUL 28 1977  
Date of Permit

cc: Mr. Ed Oakes  
Kamehameha Schools
APPLICATION FOR DRILLING, MODIFYING, RECASING OR REUSING WELLS

INSTRUCTIONS: Please send 1 copy to Honolulu Board of Water Supply, who will distribute to other agencies concerned. In filling out, refer to Rules and Regulations of the Honolulu Board of Water Supply adopted on May 10, 1976 and applicable rules and regulations of the State Department of Health.

OWNER: (See BWS Rules and Regulations Chapter III, Sec. 3-305, Item 1a)

Attention: Ed Oakes

ADDRESS: Kamahamah School
Kapalama Heights
Honolulu, HI 96817

1. APPLICATION FOR WELL: (See Chapter III, Sec. 3-305, Item I)

   Drill X Reuse
   Modification Recase
   Change in use

2. WORK TO BE PERFORMED BY: (See Chapter III, Sec. 3-311)

   Water Resources International
   2828 Paa Street Room 2085
   Honolulu, HI 96819

State License #AC 5058 Contractors C-57

WR 900 (Rev. 10-76)
3. USE OF WELL: (See Chapter III, Sec. 3-305, Item 1c)

Domestic use for persons attending or living at
Kamahamaha Schools.

4. ATTACHMENTS: (Each copy of the application shall have a complete set of attachments)

a. Location of well: Kapalama See plot plan enclosed.
   Tax Map Key: Oahu 16-2777

b. Land area served: (Attach map showing exact location of well and area served. See Chapter III, Sec. 3-305, Items 1b and 1d)
   See enclosed map

c. Description of well and appurtenant details:
   (See Chapter III, Sec. 3-305, Item 1e)
   5/16" wall 12" ID casing 129' 1 1/2" annulus grouted
   from the bottom up. 204.5' 11 1/2" ID open hole.
   Casing bottom elev-39 open hole bottom - 243 ground
   elev + 90.
5. The Owner hereby agrees to install, operate, and maintain control of the well in accordance with the laws of the State of Hawaii and the Rules and Regulations of the Honolulu Board of Water Supply and the State Department of Health.

The Owner hereby understands that a fee of One Hundred Dollars ($100.00) and a permittee bond of the amount not greater than Twenty-five Thousand Dollars ($25,000.00), said amount of the bond to be set by the Engineer, are required for the drilling or excavation of each new well. The $100.00 fee per well shall be payable to the Board and shall accompany this application. The amount of the permittee bond shall be stipulated when the well owner is notified that his permit has been granted.

(See Chapter III, Sec. 3-305, Items 2 and 2a)

6. The Owner hereby agrees to the following special conditions for this well:

6/30/77
Date Submitted

Signature of Owner Applicant

WATER RESOURCES INC
Name of applicant if other than Owner