MINUTES OF THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: January 16, 1992
TIME: 9:00 a.m.
PLACE: Kalanikau Building
         Board Room, Room 132
         1151 Punchbowl Street
         Honolulu, Hawaii

ROLL Chairperson Paty called the meeting of the Commission on Water
CALL Resource Management to order at 9:09 a.m.

The following were in attendance:

MEMBERS: Chairperson William Paty
         Dr. Michael Chun
         Mr. Robert Nakata
         Mr. Richard Cox
         Dr. John Lewin

EXCUSED Mr. Guy Fujimura

STAFF: Mr. Manabu Tagomori
       Mr. George Matsumoto
       Mr. Edwin Sakoda
       Mr. Glenn Bauer
       Ms. Sherrie Samuels
       Mr. Roy Hardy
       Mr. William Rozeboom
       Ms. Sharon Kokubun

COUNSEL: Mr. William Tam

OTHERS:
Mr. A. Morisako
Mr. Jim Eychaner
Mr. Barry Ching
Mr. Tom Nance
Mr. Dan Jenkins
Mr. Jim Wriston
Mr. Max Shoura
Mr. Brian Burke
Mr. Shigeru Yoshizaki
Mr. Rich Pedrina
Ms. Helen Garrigan
Mr. Samuel Keala, Jr.
Mr. Gen Morita
Mr. Futomu Kuji
Mr. A. Locricchio
Ms. Majorie Ziegler
Ms. Mary Prothro

Mr. Rick Fontaine
Mr. Chester Lao
Mr. David Martin
Mr. Michael Burke
Mr. Hugh Morita
Mr. Dan Lum
Mr. Cheng Hsin Chang
Mr. Tim Ayau
Ms. Francine Duncan
Mr. Raymond Pedrina
Ms. Shari Berinobis
Mr. Bob Imose
Mr. Nama Morita
Mr. Teoni Black
Ms. Clara Olds
Ms. Donna Wong
Ms. Shannon Wood

(Although items are shown in a numerical order, some items were moved up to
accommodate the applicants.)
ITEM 6

REVISION OF OAHU SUGAR COMPANY'S GROUND WATER USE PERMITS, PEARL HARBOR WATER MANAGEMENT AREA, OAHU

Mr. Sakoda revised the recommendation on the request of Oahu Sugar Company because they were not comfortable with the words "interim permits":

"That the Commission approve the reduction of OSCo's allocation by 9.76 mgd to 60.62 mgd subject to the condition that water use permits issued according to the proposed revised schedule shall be [interim permits] subject to review and adjustment by 1995."

Mr. Sakoda stated that staff's main concern was that the permits be reviewed by 1995.

Mr. Cox mentioned that this was a substantial decrease from what was given earlier. He understood OSCo still used a large amount of surface water licensed from the state and asked if that was lost would OSCo need to go back to their original approval for water use. He asked OSCo's representative for their comments.

Mr. Michael Burke said they could live with the reallocation as amended by staff. In the numbers on the pump by pump allocation, as the numbers become tighter there would be a need for flexibility between pump allocations. The possibility of the state withdrawing their water would remove substantial water from the Waiahole System.

Mr. Cox recalled that the BWS hasn't always followed their pump by pump allocations and asked Mr. Sakoda if formal or informal adjustments had been made. Mr. Hardy replied that allocations and needs were matched as much as possible but adjustments need to be made from time to time. The numbers are not absolute in the sense that in a month by month pumpage, the numbers given are yearly averages. Hopefully, within the time period the numbers would remain within the averages. When reviews were made of all the major water users, OSCo stood out as having the most "cushion". In discussions with OSCo, they agreed upon the reduction to the present allocations.

Chairperson Paty asked where pumps 15 and 16 were located. These pumps had the biggest reduction from 19 to 10 mgd. Mr. Burke said those pumps were just mauka of H-1, between Waipahu and Makakilo. These pumps irrigate the Ewa plains, which partially supply the Kapolei City and Kapolei Village area. Pumps 3-8 all work together with 15 and 16 as one major system. As long as there is flexibility in the total amount it would be a workable number for OSCo.

Mr. Martin submitted testimony and recommendations (see attached). He asked for the Commission's view on the concerns expressed.

Chairperson Paty understood that they would like to see broader distribution of discussion. Mr. Martin replied that that was correct, a broader distribution of discussion and recognition of other rights that may need to be discussed.

Mr. Nakata asked if people are standing in line for this water. Mr. Hardy asked if Mr. Nakata meant as far as actual applications for water use, there were none at this time. Although staff has been asking for information regarding updates for future demands.

Mr. Nakata felt NHAC's recommendation was appropriate and that the Commission should look at it.
Dr. Lewin asked for the status of applications to the County regarding future water use in that area because the Commission has heard some concerns that there are applications for water exceed what can be provided. Mr. Hardy said he can't answer for the County in so far as what's available in the Hawaii Water Plan because that is more of a long-term plan.

Chairperson Paty recognized that by cutting the use down by 9 mgd does not mean there will be 9 mgd for someone else to use. New wells should be developed and utilized.

Mr. Tagomori commented that like the West Hawaii area, there have been numerous discussions with the BWS in terms of what kind of applications are being requested for their system. Discussions are also ongoing among the major landowners about their water needs. Much of this information is in the Oahu Water Use and Development Plan and it is being reviewed. If there is to be a reallocation, there will be a formal process through the Commission.

Chairperson Paty wanted to assure that Mr. Nakata's concern that NHAC's suggestion be incorporated in the Plan. Mr. Tagomori replied that public hearings and other processes will be followed.

Mr. Cox asked if the reduction of total approved uses to 185 mgd by 1995 was still being looked at. Mr. Tagomori said they are looking at such a plan.

Unanimously approved with the amendment proposed by Mr. Sakoda and with the understanding that there is some flexibility on individual pumps for OSCo. and that staff start looking at long-range plans as suggested (Cox/Chun).

**ITEM 7**

**STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION, APPLICATION FOR A STREAM CHANNEL ALTERATION PERMIT, UHELEKAWAWA STREAM, WAIPOULI, KAUA'I**

Referring to the Division of Aquatic Resources preference for an overstream installation if possible, Dr. Lewin asked how it would affect the Commission's general policy in terms of the trade-offs in reducing construction costs to developers versus a policy which mitigates environmental effects that could occur.

Ms. Samuels stated that under the Instream Program a policy statement and management plan is currently being developed. A draft including recommended policy will be available for the Commission sometime this year.

Mr. Cox recalled approving the installation of the sewer system and asked if that project should be coordinated with this project so as not to cause disturbances to the stream at two different times. Mr. Matsumoto stated that the coordination is currently taking place. Mr. Cox stated that he did not notice any referral to coordination of projects in the recommendations. Ms. Samuels said it was not added because she was told the agencies involved were coordinating the matter.

Dr. Chun suggested the representative for the Department of Transportation (DOT) could possibly make a statement to that effect.

Mr. Harold Yoshizaki SEY Engineers, representing the applicant, responded to the DAR's preference for overstream utility lines coordination between
Background

On May 17, 1989, the Commission on Water Resource Management (CWRM) approved adjustments to water use permits in the Pearl Harbor Water Management Area (PHWMA) to comply with the CWRM's April 19, 1989 revisions to the PHWMA sustainable yields. The adjustments provided for a 5-year reallocation plan which incorporated the conversion of sugar cane cultivation to urban development as well as the estimated Oahu Sugar Co. (OSCo.) optimum basal ground-water demand.

Staff Review of Existing Water Uses

Staff reviewed existing water use patterns and authorized uses for all major water users within the PHWMA. Additionally, the sugar cane land conversion to urban land schedule was reviewed. Discussions and meetings were held with all major users to verify information on water uses. Based upon staff review it is evident that additional water use reductions could be applied to OSCO's authorized uses. Under current operations, sugar cane land taken out of production has occurred as scheduled and as anticipated from the May 17, 1989 CWRM action. Under current crop conditions, which reflect the 1989 reallocation plan, OSCO basal ground-water requirements are currently 60.62 million gallons per day (mgd). This is 9.76 mgd below OSCO's scheduled 1992 authorized use from the 1989 5-year plan. OSCO has agreed that 60.62 mgd would be adequate for their uses in the foreseeable future.

A well-by-well reduction of water use permits has been discussed with OSCO to achieve the least amount of negative impact to them. The attached table shows the readjusted allocations by wells.
RECOMMENDATION:

That the Commission approve the reduction of OSCo.'s allocation by 9.76 mgd to 60.62 mgd subject to the condition that water use permits issued according to the proposed revised schedule shall be interim permits subject to review and adjustment by 1995.

Respectfully submitted,

HAYAO G. AKITA
Manager-Chief Engineer

Attachment

APPROVED FOR SUBMITTAL:

WILLIAM W. PATY, Chairperson
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WAIANAE BASAL AQUIFER

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MINUTES OF THE MEETING OF THE
COMMISSION ON WATER RESOURCE MANAGEMENT

DATE: May 17, 1989
TIME: 2:00 P.M.
PLACE: Kalanimoku Building
        Board Room, Room 132
        1151 Punchbowl Street
        Honolulu, Hawaii

ROLL CALL
Chairperson Paty called the meeting of the Commission on Water
Resource Management to order at 2:15 p.m.

The following were in attendance:

MEMBERS:
Chairperson William W. Paty
Dr. Michael Chun
Mr. Richard Cox
Dr. John Lewin
Mr. Guy Fujimura
Mr. Robert Nakata

STAFF:
Mr. Manabu Tagomori
Mr. George Matsumoto
Mr. Edwin Sakoda
Mr. Dan Lum
Ms. Sherrie Samuels
Mr. Sterling Chow
Mr. Roy Hardy

OTHERS:
Mr. William Tam
Mr. Bert Hatton
Mr. Mark Cramer
Mr. Sam Keala
Mr. Quentin Kawananakoa
Mr. Kazu Hayashida
Mr. Hugh Morita
Mr. Linda Rosehill
Mr. Dean Anderson
Ms. JoAnn Yamada
Mr. Charlie Reppun
Mr. Williamson Chang
Ms. Lori Nishimura
Mr. Peter Nottage
Mr. Nelson Lee
Mr. O. K. Stender
Mr. Eric Onizuka
Mr. Ron Uemura
Mr. Rhanda Kim
Ms. Sallie Edmunds
Mr. Richard Porlocke
Mr. Dan Davidson
Ms. Mina Morita

Mr. David Oshiro
Mr. Brian Kim
Mr. Tats Fujimoto
Mr. Les Hoag
Mr. Clark Champion
Mr. Herbert Minakami
Mr. Jim Wriston
Mr. Michael Burke
Mr. Andy Yamaguchi
Ms. Cynthia Takahashi
Mr. Brad Mossman
Mr. Clarence Tanonaka
Ms. Meredith Ching
Mr. Miles Nishijima
Mr. Douglas W. MacDougal
Mr. Wally Miyashira
Mr. Matt Higashida
Ms. Patrice Tottori
Ms. Susan Miller
Ms. Carol Wilcox
Mr. Kelvin Kai
Ms. Elizabeth Martin
APPROVAL OF MARCH 19, 1989 MEETING MINUTES

Unanimously approved with the correction on page 5, "mdg" to mgd" and replacing "sustainable yield" with "water allocation" on page 8 (Chun/Fujimura).

ITEM 1
RESUBMITAL: ADJUSTMENT TO PERMITTED USES, PEARL HARBOR WATER MANAGEMENT AREA, OAHU

Mr. Tagomori recommended the following amendments to the "Staff Analysis" and "Recommendation":

Staff Analysis

First paragraph, line 5: delete "October 1990", insert "December 1990".

Third paragraph, line 3: delete "coincides", insert "incorporates Oahu Sugar's current optimum water demand of 81 mgd".

Recommendation

Item 1, insert after the last word: "(for the Waianae Aquifer, the sustainable yield is 25 mgd)".

Delete Item 2 in its entirety.

Item 3: delete "reduction", insert "adjustments", delete "final termination of an Oahu Sugar lease or sub-lease, whichever occurs later", and insert "discontinuance of agricultural uses".

Item 4: after "adjustment" insert "for the Waianae Aquifer by December 1990 and the Koolau and Schofield High-Level Aquifers".

Mr. Tagomori introduced Roy Hardy to assist in answering the questions of the Commission.

Mr. Cox asked if the numbers for the million gallons per day shown on the exhibits is a limit each day or the average over the year. Mr. Hardy replied that it was on the average over the year. Mr. Tagomori added that this was consistent with the management of the Pearl Harbor Ground Water Management under Chapter 177.

With regard to the floor amendments, Mr. Fujimura asked if the concerns of the major users had been addressed. Mr. Tagomori replied discussions with the major users addressed all of the significant concerns.

Mr. Cox asked if the in-district sources should also be eliminated to reflect amendments made by the staff. Mr. Tagomori agreed that would be consistent with the amended recommendation and that all references (In-District Source, Export to Honolulu, Export to Ewa-Waianae) wherever they occur in the exhibits should also be deleted.

In regards to the Recommendation 1, Chairperson Paty asked if the 25 mgd, instead of the 17 mgd, was in keeping with the Commission's indication to reexamine the sustainable yield of the Waianae Aquifer. Mr. Tagomori agreed that the review by 1990 would allow for additional pumpages over 17 mgd for the interim. He also added that BWS will be allowed more flexibility to select wells to meet certain needs.

Mr. Fujimura asked if it would be possible that the amount of water used be higher at a given moment than the number staff has cultivation practices. Yes, replied Mr. Tagomori. Would it be possible to continue agricultural use
but with a lower water use crop, asked Dr. Chun. Mr. Tagomori answered that replacement crops would be permissible. Mr. Bert Hatton of Oahu Sugar Co. commented that although staff has worked with them on coming to agreeable numbers, there are still some concerns about Oahu Sugar and other plantations around the State because this is the first major reallocation decision that the Commission is making. He stated that they have preserved uses, existing uses, and that these should be protected beyond prospective uses and he did not believe they are being protected if the action is taken. He added he was also concerned with their allocations for the two pumps in the Waianae Aquifer which is proposed to go from 13 to 9.2 mgd. Their actual Waianae usage per day in 1988 was 11.5 mgd. They are currently refurbishing a booster pump in that area and planning to plant an additional 100 acres to cane to solve a tax problem. Therefore, if their allocation is raised to 25, they can plant the additional acreage. He is also concerned about the schedule over time of the take-downs of cane and would like to have the staff continue working with them on a regular basis.

Mr. Kazu Hayashida of the Board of Water Supply, in looking over the reduced pumpage figures for export to Waianae and Honolulu questioned if they could do that. He asked the staff to work with them to see if they can meet the 92.01 to 87.41 reduction. Chairperson Paty assured Mr. Hayashida that the staff would work with him.

Mr. Cox mentioned he understood that the pumpage from any one well could be adjusted provided the pumping did not interfere with nearby wells. Mr. Tagomori agreed that staff regularly evaluates pumpages to assure there is no interference to the surrounding wells.

Mr. Oz Stender of the Ewa Plain Water Development Corporation commended the staff and Commission with dealing with the issue. He also stated that although no one will be completely happy if the Commission adopts what is presented by the staff it will be a step in the right direction. Mr. Stender added that Oahu Sugar's remaining a viable operation is important and that withdrawals should dovetail with plantation operations. Ewa Plain Water Development will work with them on whatever problems occur. They would also like to work towards more precise information, therefore they propose additional studies be made to confirm or determine the aquifer limits and would like to offer their participation in that process.

Mr. Charlie Reppun stated that the allocations should be done under the Water Code - to allocate water someone should request the water, stating what the water is to be used for, criteria to be met, etc. He has not heard of BWS applying for a permit and whether all the changes are being done under the permit process (Mr. Reppun then quoted from the Water Code rules). He stated the Commission did not have the legal right to cut Oahu Sugar's water back if no one applied for a permit and by turning the planning process to an agency of the City whose policy is "first come first served" it will be a "planning mess". Mr. Reppun added that by allocating up to the sustainable yield without a margin of error, the Commission is not following proper procedure.

Mr. Fujimura suggested the question be addressed to Mr. Tam.

Chairperson Paty stated registration questions would be answered on the registration item on the agenda, but Mr. Tam could comment.

Mr. Tam stated there are two laws that are in effect: Chapter 177 is in effect until July 1st. Under 177, whether preserved uses or permitted uses, under water shortage section there can be modifications of those permits. Section IV talks about interim permits that will be in existence under the Code and for new designated areas: there has to be applications but it is not clear under the statutes whether existing uses in an existing water
management area are deemed to be existing applications and therefore
given priority over a new decision.

Mr. Reppun commented that if allocation is cut back on one party it cannot
be given to another party without their coming in for a permit, especially no
if permit was formally requested. He asked what the BWS was going to use
the allocation for because under the Code a use will need to be stated.

Mr. Hayashida answered that the statement was not correct because by the
Code it would have to go by project to project and by looking at their
records, which are public records, whatever information is needed is
available.

Chairperson Paty intervened by saying the Commission would take
Mr. Reppun's comments into consideration on their deliberation of the item.

Mr. Reppun stated he knows BWS does not have to come on a project by
project basis, but also that it was not the intent of the Code to get a blanket
allocation. He would still like to know about the margin of error on
allocations. He would like answers to these two questions.

Mr. Cox asked for clarification if the BWS allocation is going up or down in
the proposal and that if there is a reduction they would have to come in for
a permit for additional water. Mr. Tagomori, referring to the tables, replied
that there is a reduction in the allocation and that the Board would have to
come for a permit for new withdrawals.

Mr. Tagomori added that in 1984 Oahu Sugar's allocation (115 to 92.5 mgd.,
a 22.5 mgd. reduction over a three-year period) was reallocated under
Chapter 177 by the Board of Land and Natural Resources due to reduction in
plantation size from 18,000 acres to 14,000 acres and change in irrigation
method from furrow to drip.

Mr. Reppun commented that the bulk of the reallocation is coming from
Oahu Sugar, almost 30 mgd. He then asked if that 30 mgd. is automatically
transferred to BWS because theoretically it is available for someone else to
claim since everyone is not cut back equally..

Dr. Chun replied he did not see it that way. Dr. Lewin added that the
overall water use is being reduced over a period of time and that everyone
except the military is gradually reduced; Oahu Sugar is where the bulk of
the reduction is coming from.

Chairperson Paty said the staff is trying to come up with the best balance
and intend to do everything they can to assure that Oahu Sugar will not
suffer any reduction in yields on lands that they are currently farming. The
Ewa Plains people, the staff, all involved are trying to take care of the
situation.

Mr. Hayashida wanted to clarify his statement "first come, first served" is
made on the basis of the Land Use planning by the City Council, so your land
is properly zoned before water is given to you. It is not a haphazard
decision, it's tied into the Land Use Plan. The actual allocations given to
the BWS will be through a water use or withdrawal permit system.

Mr. Hatton added that withdrawal of water from Waiahole Ditch would
create a water shortage and Oahu Sugar would need to pump more water. It
is not a problem at the moment but it may be in the future.

Dr. Chun moved to accept staff recommendations as amended. Mr. Nakata
asked to amend Recommendation 1 to add "subject to review by December
1990" at the end of the recommendation.

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

Gentlemen:

RESUBMITAL
Adjustments to Water Use Permits
Pearl Harbor Water Management Area, Oahu

Changes in ground water conditions, irrigated acreage, irrigation practice, and the recent downward revision of sustainable yield in the Pearl Harbor Water Management Area (PHWMA), has resulted in the need for adjustments to existing permitted use.

Staff Analysis

On April 19, 1989, the Commission revised the sustainable yields for the Koolau basal aquifer and the Schofield High-Level aquifers downward to 165 mgd and 13 mgd, respectively by the year 1995. Action on the recommended 17 mgd sustainable yield for the Waianae basal aquifer was deferred to further study until no later than October of 1990. Until the sustainable yield of the Waianae basal aquifer is revised, the Commission will manage the permitted uses of water in the PHWMA within the recommended total sustainable yield of 195 mgd targeted for 1995.

As a result, staff has prepared a schedule of adjustments to existing water use permits to meet current and projected changes in water use. Numerous meetings and discussions were held with the major water users to formulate this schedule, in an effort to avoid and minimize undue hardship to existing water users and planned developments.

The proposed schedule of reduction of existing water use permits on a well source basis, was developed from information supplied by the major water users. The schedule coincides with anticipated changes in water use resulting from reduction in Oahu Sugar Co.'s irrigated acreage in Ewa plain caprock area and planned urban growth throughout the PHWMA.

Prior to the Water Code, existing water use permits were conditional and subject to review. Also, it is not clear whether the water use permits allocated under Chapter 177 HRS, for ground water control areas, are valid to continue as new water use permits because of the due process in awarding permits under a water management area. It is additionally unclear, through comments of major water users, as to what constitutes an existing use based on previous permits under Chapter 177 HRS. Therefore, water use permits granted under the proposed schedule should be issued as interim permits in accordance with the Water code and Administrative Rule 13-171-20(b).
The proposed schedule of permitted water use for the Pearl Harbor Water Management Area are summarized below from the details of Exhibits 1, 2, and 3.

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RECOMMENDATION:

That the Commission adopt the proposed schedule of permitted water use tabulated in Exhibits 1, 2, and 3 by user, well source, and aquifer for the Pearl Harbor Water Management Area, subject to the following conditions:

1. That within each aquifer the total permitted use shall not exceed the sustainable yield.

2. That any water available for allocation shall be for in-district use.

3. That scheduled reductions to Oahu Sugar Co. permitted use shall be initiated upon final termination of an OSCo lease or sub-lease, whichever occurs later.

4. That permits for water use issued in accordance with the proposed schedule shall be interim permits subject to review and adjustment by 1995.

Respectfully submitted,

MANABU TAGOMORI
Deputy Director

Approved for Submittal

WILLIAM W. HATY, Chairperson
## PROPOSED SCHEDULE OF INTERIM WATER USE PERMIT

### KOLOAU BASAL AQUIFER

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#### HONOLULU BUS

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<tbody>
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<td>Subtotal (OCS)</td>
<td>78.651</td>
<td>68.060</td>
<td>65.740</td>
<td>64.293</td>
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<td>58.752</td>
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#### MAUI SUGAR COMPANY

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<td>0.200</td>
<td>0.200</td>
<td>0.200</td>
<td>0.200</td>
<td>0.200</td>
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</tbody>
</table>

### EXHIBIT 1
December 6, 1991

Mr. Manabu Tagomori  
Deputy Director  
Commission on Water Resource Management  
Department of Land and Natural Resources  
P. O. Box 373  
Honolulu, HI 96809

Dear Manabu:

Enclosed are a listing of fields actually withdrawn from Oahu Sugar Company's demise by Campbell Estate via Area and Rental Agreements and a list of basal well by well pumpage requirement to total 60.62 MGD when our present allocation is readjusted.

If any other information is required, please give me a call.

Very truly yours,

W. D. Balfour, Jr.  
Vice President and Manager

WDB:yk  
enclosures
Recommended Distribution of Revised 60.62 MGD Basal Groundwater Allocation

**Koolau Sub-area:**

<table>
<thead>
<tr>
<th>Source</th>
<th>Flow Rate (MGD)</th>
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<tbody>
<tr>
<td>EP2</td>
<td>0.000</td>
</tr>
<tr>
<td>EP3,4</td>
<td>3.304</td>
</tr>
<tr>
<td>EP5,6</td>
<td>8.000</td>
</tr>
<tr>
<td>EP7,8</td>
<td>6.813</td>
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<tr>
<td>EP15,16</td>
<td>12.154</td>
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<td>WP17A,17B</td>
<td>0.000</td>
</tr>
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<td>WP1</td>
<td>1.151</td>
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<tr>
<td>WP2A,2B</td>
<td>5.594</td>
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<td>WP2C,4C</td>
<td>5.594</td>
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<tr>
<td>WP4A,4B</td>
<td>4.000</td>
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<td>WP6A,6B</td>
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<td>WP7A,7B,7C</td>
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**Total**

55.610 MGD

**Waianae Sub-area:**

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<td>0.000</td>
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<tr>
<td>EP10</td>
<td>5.010</td>
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**Total**

60.620 MGD
## Campbell Estate Sugarcane Acreage Withdrawals and Cessation of Cultivation on Lands Supplied With Water from the Pearl Harbor Water Management Area Basal Aquifer

<table>
<thead>
<tr>
<th>Rental Agrmt #</th>
<th>Effective Date</th>
<th>Field Number</th>
<th>Cane Area Withdrawn</th>
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<td>Completed Agreements:</td>
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<tr>
<td>61 5/31/88</td>
<td>8/16/88</td>
<td>57</td>
<td>0.197</td>
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<tr>
<td>62 5/26/88</td>
<td>11/10/88</td>
<td>48</td>
<td>33.95</td>
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<tr>
<td>63 9/21/88</td>
<td>1/19/89</td>
<td>69</td>
<td>63.9</td>
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<tr>
<td>64 4/16/89</td>
<td>3/8/90</td>
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<td>4.571</td>
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<tr>
<td>65 5/1/89</td>
<td>3/8/90</td>
<td>77</td>
<td>114.65</td>
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<tr>
<td>66 11/10/88</td>
<td>3/8/90</td>
<td>76</td>
<td>40.195</td>
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<td>80 5/1/90</td>
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<td>87.842</td>
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Pending Agreements:

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<th>Effective Date</th>
<th>Field Number</th>
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<tbody>
<tr>
<td>68 4/16/89</td>
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<td>14</td>
</tr>
<tr>
<td>70 6/13/90</td>
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<td>16</td>
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<tr>
<td>71 10/20/89</td>
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<td>74</td>
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<tr>
<td>73 10/19/89</td>
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<td>35</td>
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<tr>
<td>74 11/18/88</td>
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<td>69</td>
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<tr>
<td>75 11/12/88</td>
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<td>72</td>
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<tr>
<td>76 10/26/90</td>
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<td>93</td>
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<tr>
<td>77 4/23/88</td>
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<td>57</td>
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<tr>
<td>78 4/10/89</td>
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<td>14</td>
</tr>
<tr>
<td>79 5/2/89</td>
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<td>20</td>
</tr>
<tr>
<td>80 5/1/90</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>81 10/19/90</td>
<td></td>
<td>86</td>
</tr>
<tr>
<td>83 10/12/90</td>
<td></td>
<td>64</td>
</tr>
</tbody>
</table>
Chairman and Members  
Board of Land and Natural Resources  
State of Hawaii  
Honolulu, Hawaii  

Gentlemen:  

RESUBMITAL  
Terms of Water Withdrawal and Use Permits  

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

The Ground Water Use Law specifies that permits may be issued up to a maximum of 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

SUSAMU ONO, Chairman

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

ITEM D-1

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

Gentlemen:

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

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

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

<table>
<thead>
<tr>
<th>User</th>
<th>Average Annual (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board of Water Supply</td>
<td>78.850</td>
</tr>
<tr>
<td>U.S. Navy</td>
<td>21.350</td>
</tr>
<tr>
<td>U.S. Army</td>
<td>5.455</td>
</tr>
<tr>
<td>Private</td>
<td>5.858</td>
</tr>
<tr>
<td>Oahu Sugar Company</td>
<td>115.000</td>
</tr>
<tr>
<td>Total</td>
<td>224.413</td>
</tr>
</tbody>
</table>

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

RECOMMENDATION:

That the Board certify the existing uses and quantity of withdrawal for each well as indicated in the attached "Certification of Water Withdrawals and Uses" dated April 11, 1980 which reflects the recommended withdrawal quantity as follows: Board of Water Supply at 78.85 mgd; U.S. Navy, 21.35 mgd; U.S. Army, 5.455 mgd; Private, 5.858 mgd; and Oahu Sugar Company, 115.0 mgd; subject to the provisions of applicable laws and rules and regulations.

Respectfully submitted,

ROBERT T. CHUCK
Manager-Chief Engineer

SUSUMU ONO, Chairman

APPROVED FOR SUBMITTAL:

A5
MOTION

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

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

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

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

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

5. Adjustment in quantity, in the case of Oahu Sugar, upon the installation of a new and more accurate metering system, but in no event will said adjustment exceed the amount of the 1979 withdrawal as contained in the declared use attached to the submittal.
### State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
CERTIFICATION OF WATER WITHDRAWALS AND USES
Pearl Harbor Ground Water Control Area
April 11, 1980

<table>
<thead>
<tr>
<th>User/Source</th>
<th>State Well No.</th>
<th>Total Wells</th>
<th>Use</th>
<th>Source Capacity (mgd)</th>
<th>5-year Average (mgd)</th>
<th>Use</th>
<th>Withdrawal Use</th>
<th>1979 5-year Average (mgd)</th>
<th>Use</th>
<th>Withdrawal Use</th>
<th>VW</th>
<th>Maximum Daily Annual Use (mgd)</th>
<th>Average Daily Use (mgd)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OAHU SUGAR CO.</strong></td>
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<tr>
<td>Honolulu</td>
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</tr>
<tr>
<td>WP 2</td>
<td>2281-03, 04, 07</td>
<td>3</td>
<td>Agr.</td>
<td>5.000</td>
<td>2.843</td>
<td>Agr.</td>
<td>5.000</td>
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<td>Agr.</td>
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<td>Agr.</td>
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<td>2282-02 to 14</td>
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<td>Agr.</td>
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<td>12.015</td>
<td>Agr.</td>
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<td>1,088.046</td>
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<td>WP 7</td>
<td>2287-16 to 20</td>
<td>8</td>
<td>EP 1, Agr.</td>
<td>13.380</td>
<td>9.230</td>
<td>EP 1, Agr.</td>
<td>13.300</td>
<td>1,086.110</td>
<td>(5.515)</td>
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<td>WP 15, 16</td>
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<td>Agr.</td>
<td>24.200</td>
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<td>EP 10, 11, 12, 13</td>
<td>2280-01 to 13</td>
<td>11</td>
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<td>15.792</td>
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<td>20.000</td>
<td>1,223.980</td>
<td>(14.013)</td>
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<tr>
<td><strong>Wahiawa</strong></td>
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<td>WP 1TA</td>
<td>2289-01</td>
<td>1</td>
<td>Agr.</td>
<td>5.000</td>
<td>1.723</td>
<td>Agr.</td>
<td>2.000</td>
<td>192.000</td>
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<td>2289-03</td>
<td>1</td>
<td>Agr.</td>
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<td>1.723</td>
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<tr>
<td>WP 1</td>
<td>2281-01 to 09</td>
<td>10</td>
<td>Dom.</td>
<td>1.068</td>
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<td>Dom.</td>
<td>1.060</td>
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<td>Agr.</td>
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<td>WP 2C, 9C</td>
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<td>8.021</td>
<td>8.079</td>
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<td>1,770.500</td>
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<td>WP 4A, 22</td>
<td>2281-11 to 20</td>
<td>10</td>
<td>Agr., Ind.</td>
<td>10.644</td>
<td>8.232</td>
<td>Agr.</td>
<td>10.600</td>
<td>2,288.275</td>
<td>(6.155)</td>
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<td><strong>Waipahu</strong></td>
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<td>WP 4A, 4B</td>
<td>2289-01 to 14</td>
<td>14</td>
<td>Agr.</td>
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<td>2.820</td>
<td>Agr.</td>
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<td>WP 7A, 7B, 7C</td>
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<td>Agr.</td>
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<td>11.341</td>
<td>Agr.</td>
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<tr>
<td>K尾la Wats II</td>
<td>2281-01, 02</td>
<td>2</td>
<td>Mun.</td>
<td>5.04</td>
<td>0.590</td>
<td>Mun.</td>
<td>1.320</td>
<td>356.480</td>
<td>(0.940)</td>
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<tr>
<td>Waipahu Wats</td>
<td>2280-01 to 04</td>
<td>4</td>
<td>Mun.</td>
<td>10.00</td>
<td>4.440</td>
<td>Mun.</td>
<td>5.210</td>
<td>1,751.280</td>
<td>(4.880)</td>
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<tr>
<td>Waipio Unga. Wats</td>
<td>2281-16, 20</td>
<td>2</td>
<td>Mun.</td>
<td>4.22</td>
<td>0.560</td>
<td>Mun.</td>
<td>1.810</td>
<td>239.950</td>
<td>(0.630)</td>
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<tr>
<td>Pearl City Shaft</td>
<td>2281-01</td>
<td>1</td>
<td>Mun.</td>
<td>3.30</td>
<td>1.330</td>
<td>Mun.</td>
<td>2.350</td>
<td>811.900</td>
<td>(1.323)</td>
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<td>2281-03, 04</td>
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<td>Mun.</td>
<td>2.00</td>
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<td>Pearl City Wats II</td>
<td>2281-07 to 03</td>
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<td>Mun.</td>
<td>3.360</td>
<td>789.250</td>
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<td>Waianae Wats</td>
<td>2287-13 to 15</td>
<td>3</td>
<td>Mun.</td>
<td>0.80</td>
<td>0.830</td>
<td>Mun.</td>
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<td>225.000</td>
<td>(1.448)</td>
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<td>Newtown Wats</td>
<td>2280-01 to 03</td>
<td>3</td>
<td>Mun.</td>
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<td>Mun.</td>
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<td>Keauohi Wats I</td>
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<td>Mun.</td>
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<td>1.190</td>
<td>Mun.</td>
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<td>(1.100)</td>
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A7
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<th>State Wall No.</th>
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<th>1978 Average (mgd)</th>
<th>Declared Existing Use Withdrawal</th>
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<td>Use</td>
<td>Source Capacity (mgd)</td>
<td>In-District</td>
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<td>Aloa Gulch</td>
<td>2358-63, 65</td>
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<td>2.00</td>
<td>0.858</td>
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<td>Waipio Hgts. Wells I</td>
<td>5460-21, 22</td>
<td>3 Mem.</td>
<td>4.00</td>
<td>-</td>
<td>- Mem.</td>
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<td>Waipio Hgts. Wells II</td>
<td>3500-61, 62</td>
<td>2 Mem.</td>
<td>4.00</td>
<td>-</td>
<td>- Mem.</td>
<td>- ( 0.000)</td>
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<td>Well</td>
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<td>1 Mem.</td>
<td>no pump</td>
<td>-</td>
<td>- Mem.</td>
<td>- ( 0.000)</td>
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<td>Milliak Wells</td>
<td>2369-61 to 64</td>
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<td>Halewa Shale</td>
<td>2354-61</td>
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<td>22.00</td>
<td>12.400</td>
<td>14.200 Mem.</td>
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<td>Punaluu Wells</td>
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<td>Waiakea Wells II</td>
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<td>8.270</td>
<td>9.290 Mem.</td>
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<td>Exp-Waianae</td>
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### DECLARED EXISTING USE

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<th>State Well No.</th>
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<th>Use</th>
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<th>5-year Average (mgd)</th>
<th>1979 Use (mgd)</th>
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<tr>
<td>Army</td>
<td>2215-01</td>
<td>1</td>
<td>Ind.</td>
<td>2.150</td>
<td>0.606</td>
<td>0.606</td>
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<tr>
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<td>1</td>
<td>Ind.</td>
<td>2.150</td>
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<tr>
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<td>Agr.</td>
<td>2.000</td>
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<td>Agr.</td>
<td>2.000</td>
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<td>1.911</td>
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<tr>
<td>Harris Rug</td>
<td>2215-09</td>
<td>1</td>
<td>Dom.</td>
<td>0.432</td>
<td>0.125</td>
<td>0.125</td>
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<tr>
<td>Waimano Trng. School</td>
<td>2215-10</td>
<td>2</td>
<td>Other</td>
<td>0.932</td>
<td>0.165</td>
<td>0.136</td>
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<tr>
<td>Totals</td>
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<tr>
<td>PRIVATE USERS</td>
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<tr>
<td>C&amp;F Refinery</td>
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<td>192-01</td>
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<td>Other</td>
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<td>0.125</td>
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<td>Pearl Country Club</td>
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<td>Other</td>
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<td>0.125</td>
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<tr>
<td>Totals</td>
<td></td>
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<tr>
<td>TOTAL (Private Users)</td>
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### PRESERVED USE

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<th>Total Wells</th>
<th>Use</th>
<th>Maximum Daily (mgd)</th>
<th>Total Annual (mgd)</th>
<th>Average Daily (mgd)</th>
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<td>Ind.</td>
<td>1.634</td>
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<td>0.906</td>
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<tr>
<td>Dal Monte Corp.</td>
<td>2215-07</td>
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<td>Agr.</td>
<td>2.000</td>
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<td>Agr.</td>
<td>2.000</td>
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<td>1.911</td>
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<td>Harris Rug</td>
<td>2215-09</td>
<td>1</td>
<td>Dom.</td>
<td>0.432</td>
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<td>Waimano Trng. School</td>
<td>2215-10</td>
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<td>0.165</td>
<td>0.136</td>
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<td>C&amp;F Refinery</td>
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<td>Pearl Country Club</td>
<td>2215-06</td>
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<td></td>
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</tbody>
</table>

*Withdrawal to be certified shall be equal to the existing pump capacity.*
September 18, 1979

KAZU HAYASHIDA
Manager and Chief Engineer

Mr. Robert Chuck
Manager and Chief Engineer
Department of Land and
Natural Resources
Division of Water and Land
Development
P. O. Box 373
Honolulu, Hawaii 96809

Dear Mr. Chuck:

Subject: Well Modification Permit to
Mr. J. E. Loomis, Oahu Sugar
Company, Ltd.

Enclosed for your information and files are copies of the
well application and the approved well modification permit issued
to Oahu Sugar Company, Ltd. for the modification of Well No.
2658-01 and Well No. 2658-02 at TMK: 9-6-05: portion of 01.

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

Encl.
TO: Mr. J. E. Loomis
Oahu Sugar Company, Ltd.
P. O. Box 3230
Honolulu, Hawaii 96801

Your application of August 22, 1979 to modify existing wells 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.

You are hereby granted a permit to modify Well No. 2658-01 by installing a new 3.0 mgd pump and by removing the orifice plate which restricts flow from Well No. 2658-02.

This permit is granted subject to 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 total water pumped, and the pumpage reported to the Board of Water Supply on a monthly basis.

3) Pumpage at Oahu Sugar Pump 6B remain curtailed by 4.3 mgd.

Kazu Hayashida
Manager and Chief Engineer
Board of Water Supply

9/17/79
Date of Permit
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)

Oahu Sugar Company, Limited

ADDRESS: P. O. Box 3230
Honolulu, Hawaii 96801

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

Drill _______ Reuse _______
Modification x Recase _______
Change in use _______

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

Oahu Sugar Company, Limited - Transformer Capacity
Roscoe Moss Company - Pump Installation

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

The purpose of the modifications to Pumps 17A and 17B

is to install two pumps of 3.0 mgd capacity each.

Existing pumps are of 2.5 mgd capacity.

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

a. Location of well:    Waiawa, Ewa, Oahu

Tax Map Key:  9-6-05-01 portion

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

Oahu Sugar Co. Fields 541, 542-1, 542-2, 545-1, 545-2
and 545-3 - Total Area: 561.45 acres.

c. Description of well and appurtenant details:
   (See Chapter III, Sec. 3-305, Item 1e)

Two (2) Byron Jackson Pumps

Size & Type: 15 MGH-7STG-Sub

GPM 2200; Head Ft. 750; R.P.M. 1770; H.P. 500
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:

OAHU SUGAR COMPANY, LIMITED

Date Submitted: August 22, 1979

By: [Signature]

Name of applicant if other than Owner
DESCRIPTION FOR WELl SITE

ALL that certain piece or parcel of land being a portion of Royal Patent 4475, Land Commission Award 7713, Apana 46 to Victoria Kamamalu.

Situate at Waiawa, Ewa, Oahu, Hawaii.

Beginning at a pipe on the east corner of this parcel of land, the coordinates of said point of beginning referred to Government Survey Triangulation Station "EWA CHURCH" being 19,639.24 feet north and 3,707.62 feet east and thence running by azimuths measured clockwise from true South:

1. \(61^\circ 05' 30''\) 213.59 feet along the remainder of R. P. 4475, L. C. Aw. 7713, Ap. 46 to V. Kamamalu to a pipe;

2. \(168^\circ 45' 30''\) 222.36 feet along the remainder of R. P. 4475, L. C. Aw. 7713, Ap. 46 to V. Kamamalu;

3. \(258^\circ 45' 30''\) 70.00 feet along the south side of Waiahole Water Co., Ltd. Tunnel L, along the remainder of R. P. 4475, L. C. Aw. 7713, Ap. 46 to V. Kamamalu;

4. \(259^\circ 59' 30''\) 136.87 feet along the south side of Waiahole Water Co., Ltd. Tunnel K, along the remainder of R. P. 4475, L. C. Aw. 7713, Ap. 46 to V. Kamamalu;

5. \(349^\circ 59' 35''\) 154.62 feet along the remainder of R. P. 4475, L. C. Aw. 7713, Ap. 46 to V. Kamamalu to the point of beginning and containing an area of 0.890 acre.

EXHIBIT "A"
PORTION OF
R. P. 4475, L. C. AW. 7713, APANA 46
TO VICTORIA KAMAMALU
WAIAWA, EWA, OAHU, HAWAII
SCALE: 1 IN. = 40 FT.
February 21, 1961
Walter P. Thompson

Coor referred to
Ewa Church Lot

Tax Map Key: 9-3-05 part 1
KAMEHAMEHA SCHOOLS / BERNICE PAUAHI BISHOP ESTATE

August 22, 1979

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

Dear Mr. Hayashida:

Pump Installation, License Agreement No. 196-9, TMK 196-005-001(por), Waiawa, Ewa

Oahu Sugar Company, Limited, as Licensee under our License Agreement No. 196-9, dated December 31, 1962, has the permission of Kamehameha Schools/Bishop Estate to modify its Pumps 17A and 17B by installing two new pumps of 3.0 mgd capacity each as per the attached Board of Water Supply application dated August 22, 1979.

Very truly yours,

[Signature]
E. M. Michael
Area Development Manager

PJC:kn
Enclosure

Subscribed and sworn to before me this 22nd day of August, 1979

[Signature]
ELVERA BLACK
Notary Public, First Judicial Circuit
State of Hawaii
My Commission expires March 31, 1980