

SUMMARY OF AVAILABLE GROUND-WATER DATA FOR THE ISLAND OF OAHU, HAWAII

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CONTENTS

	Page
Abstract -----	1
Introduction -----	1
Purpose and scope -----	2
Previous work -----	2
Acknowledgments -----	3
Hydrologic study areas -----	3
Well-numbering system -----	5
Presentation of data -----	6
References -----	216

ILLUSTRATIONS

Figure	
1. Map of Oahu showing hydrologic study areas -----	4
2. Map showing the topographic quadrangles of the island of Oahu ----	7
3. Map showing ground-water bodies of the island of Oahu -----	8

TABLES

Table	Page
1. General information on the wells, shafts and tunnels in Southeast Oahu -----	9
2. Available data for wells, shafts and tunnels in Southeast Oahu --	12
3. General information on the wells, shafts and tunnels in Southern Oahu -----	15
4. Available data for wells, shafts and tunnels in Southern Oahu ---	46
5. General information on the wells, shafts and tunnels in North-central Oahu -----	137
6. Available data for wells, shafts and tunnels in North-central Oahu -----	146
7. General information on the wells, shafts and tunnels in Windward Oahu -----	164
8. Available data for wells, shafts and tunnels in Windward Oahu ---	174
9. General information on the wells, shafts and tunnels in the Waianae area -----	194
10. Available data for wells, shafts and tunnels in the Waianae area -----	202

CONVERSION TABLE

The following table may be used to convert measurements in the inch-pound system to the International System of Units (SI).

<u>Multiply inch-pound units</u>	<u>By</u>	<u>To obtain SI units</u>
inch (in.) -----	25.40 -----	millimeter (mm)
foot (ft) -----	0.3048 -----	meter (m)
mile (mi) -----	1.609 -----	kilometer (km)

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ABSTRACT

This report presents, in tabular form, descriptive information and information on the availability of chloride concentration, water level, pumpage, log, pump test, and flow data for all wells, shafts, and tunnels on Oahu. Descriptive data for each ground-water source include: identification numbers, map number, depth, diameter, year completed, owner, use, and status. The report is based on data available in the files of the U.S. Geological Survey and is a compilation of observations made by Survey personnel and information gathered by other government agencies and the private sector.

INTRODUCTION

Over the years, the Hawaii District, Water Resources Division, of the U.S. Geological Survey, has accumulated considerable information on the ground-water resources of the island of Oahu. The advent of the Regional Aquifer System Analysis (RASA) project created a definite need for a summary of available ground-water data. This report meets this need by providing a comprehensive survey of available ground-water information for Oahu.

Purpose and Scope

The purpose of this report is to present, in tabular form, descriptive information as well as information on the availability of chloride, water level, pumpage, log, pump test, and flow data for all wells, shafts, and tunnels on Oahu, excluding injection wells and springs. The report is based on data currently available in the files of the U.S. Geological Survey. These data consist of observations made by Survey personnel, and information gathered by other government agencies and the private sector. In order to manage the large amount of data associated with Oahu's ground-water resources, a database was created on the Hawaii District's PRIME¹ computer utilizing the INFO database system. This database system allows the retrieval of data on a single well or groups of wells by selecting a specific criterion.

Previous Work

An early report by Stearns and Vaksvik (1938) summarized similar information for drilled wells on Oahu. The report presented chloride, water level, and pumpage data up to 1934. Later, an addendum was published to include wells drilled up to 1940 (Stearns, 1940). Since then ground-water studies have tended to concentrate on particular areas of Oahu, usually focusing on a few representative wells. The most current and comprehensive source of information on wells, tunnels, and shafts for Hawaii are two computer databases maintained by the Survey and the State Department of Land and Natural Resources, Division of Water and Land Development (DOWALD). These two database compilations are not widely circulated, and thus a more public database has a useful place.

¹/ Use of brand names in this report is for identification purposes only and does not constitute endorsement by the U.S. Geological Survey.

Acknowledgments

The authors appreciate the cooperation and assistance of the Board of Water Supply (BWS), City and County of Honolulu, the State Department of Land and Natural Resources, Division of Water and Land Development (DOWALD), the State Department of Health (DOH), agencies of the U.S. Army, and U.S. Navy, the Oahu Sugar Company, Waialua Plantation, Kahuku Plantation, various drillers, and other private individuals and companies in providing information and access to their records. We wish, especially, to acknowledge DOWALD for providing us with the latest edition of well-location maps of Oahu.

Hydrologic Study Areas

For the purpose of the RASA study, the island of Oahu was divided into five hydrologic study areas as shown in figure 1. The areas are as follows: (1) Southeast Oahu, (2) Southern Oahu, (3) North-central Oahu, (4) Windward Oahu, and (5) Waianae Area. The crest of the Koolau mountain range defines the boundary between Windward Oahu and Southeast, Southern, and North-central Oahu. The crest of the Waianae range separates the Waianae area from North-central and Southern Oahu. The boundary between Southern Oahu and Southeast Oahu is the Kaaui Rift zone. Lastly, the Wahiaua-Waialua district boundary serves to separate North-central Oahu from Southern Oahu.

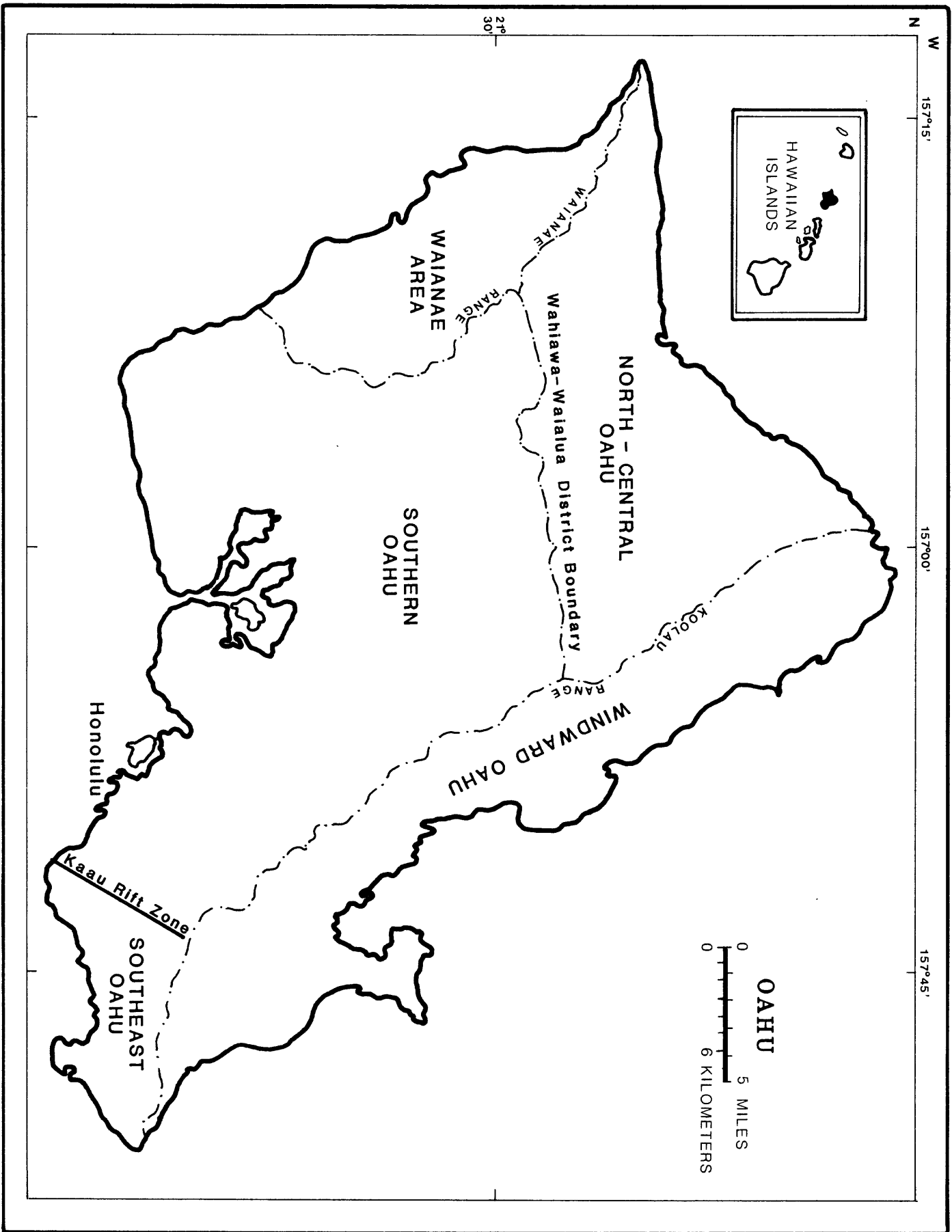


Figure 1. Map of Oahu showing hydrologic study areas.

Well-Numbering System

The well-numbering system used in this report is based upon superposition of a 1-minute latitude and longitude grid on the map of Oahu. All wells enclosed in each 1-minute rectangle are assigned a 4-digit number which is a combination of the minute of latitude and the minute of longitude. Each well is then numbered sequentially from oldest to most recent, whenever dates of construction are known. The sequence number is connected to the end of the 4-digit number by a hyphen creating a unique well number. An island identification number is added in the front of the 4-digit number and connected by a hyphen. For the island of Oahu, the island identification number is "3". For example, well number "3-1746-01" is located on Oahu in the one-minute rectangle defined by 17 minutes of latitude and 46 minutes of longitude. The "-01" indicates it is the oldest well in the series of wells drilled in that rectangle.

In addition, a number is assigned to a battery of wells if composite data exist. The battery well number uses the well number of the first well in the group followed by a "Z". When there is more than one group of wells with the same first well in a sequence, the well number of each successive group has an additional "Z" appended to the end of the number. For example, if there is composite data for wells 3-2459-01 to 3-2459-14 and composite data for wells 3-2459-01 to 3-2459-05, the former battery of wells is given the well number "3-2459-01Z" and the latter group is given the number "3-2459-01ZZ."

PRESENTATION OF DATA

Data are presented by hydrologic study areas. For each of the five areas, two tables are given. In order to facilitate understanding of the tables, a list of abbreviations precedes each section of a hydrologic study area.

The first table for each section provides the following descriptive information about each well, shaft or tunnel: identification number (WELL NUMBER), map number (MAP NO.), ground-water body (GROUND-WATER BODY), altitude of the ground surface at the well site (ALT.), depth (WELL DEPTH), whether it is a cased or open hole (C/O), casing depth (CASING DEPTH), diameter (DIA.), year completed (YEAR), owner (OWNER), use (U), status (S), and remarks (REMARKS). The map number refers to one of fifteen well-location maps for Oahu, prepared by DOWALD. The base for these maps are the standard 1:24,000 scale, 7 1/2 minute, U.S. Geological Survey topographic quadrangles (fig. 2). Well-location maps can be examined at the U.S. Geological Survey office located in Room 6110, 300 Ala Moana Blvd., Honolulu, Hawaii. The term "ground-water body" refers to a contiguous body of freshwater, usually with one principal mode of occurrence, that resides in an aquifer. The ground-water bodies referenced in this report are shown in figure 3. The altitude, well depth, and casing depth are shown to two decimal places. This is a result of the format defined in the INFO database system and, is not meant to imply a level of accuracy.

The second table of each section describes the type of physical and chemical data available. The letter "X" under the column headings, LOG, FLOW, and TEST indicates the presence of some type of log, a measurement of discharge from a flowing well, and pump test data, respectively. For chloride, water level, and pumpage data, the table provides the frequency of data collection, periods of record, and sources (abbreviated and in parentheses). In cases where only sparse data exist, the actual values are given. In this report, chloride concentration is expressed as milligrams per liter (mg/L) with the exception of Table 10 for the Waianae hydrologic study area. For older records, it was necessary to convert from concentration measured in grains per gallon (gr/gal) to parts per million (ppm) using a conversion factor of 10.39. Then, the value in ppm was converted to mg/L. For this conversion, a value for density or specific conductance was necessary. When neither of these values were available, a one-to-one relationship between ppm to mg/L for chloride concentrations less than 2,500 ppm was assumed. Chloride values greater than 2,500 ppm were not converted to mg/L.

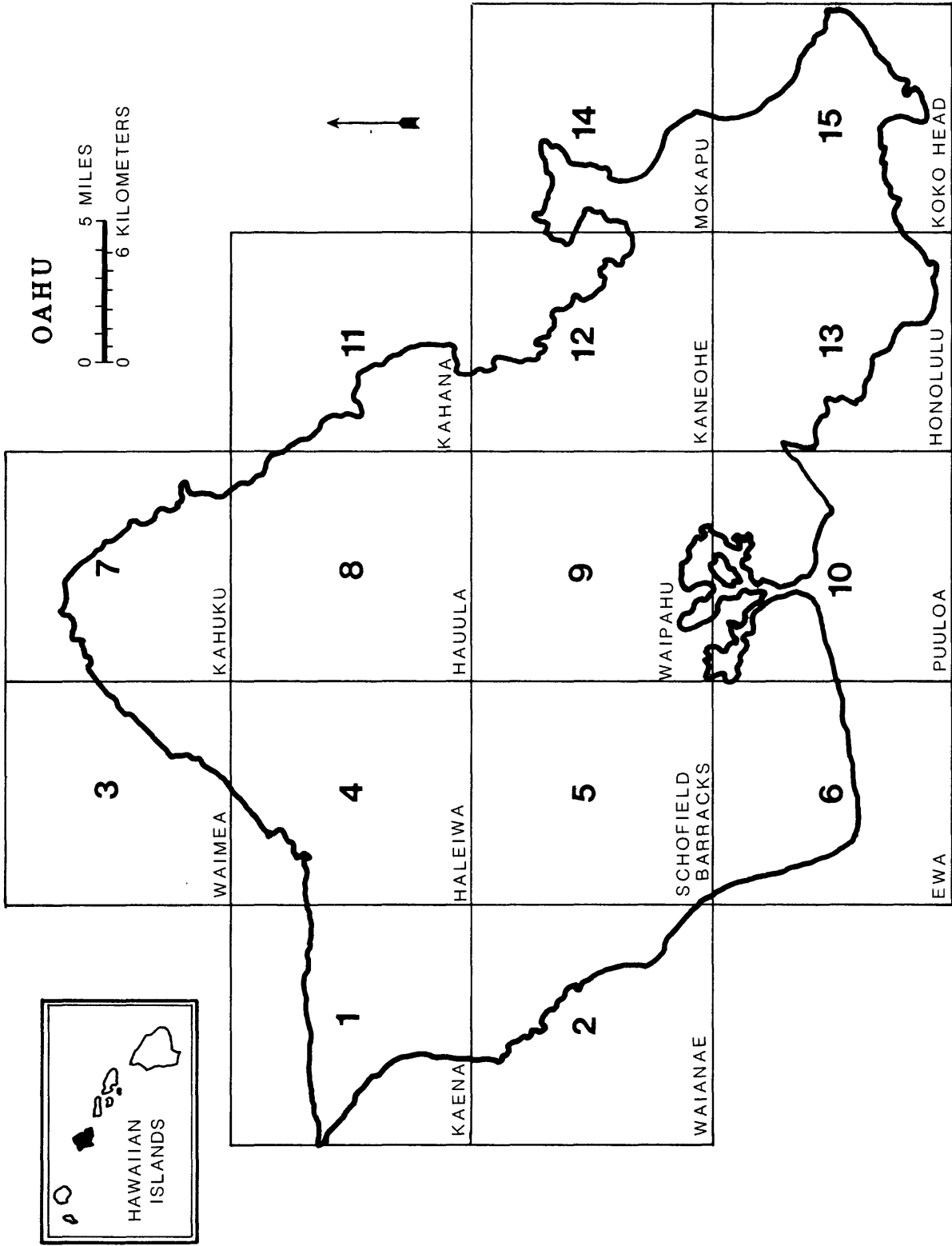


Figure 2. Map showing the topographic quadrangles of the island of Oahu.

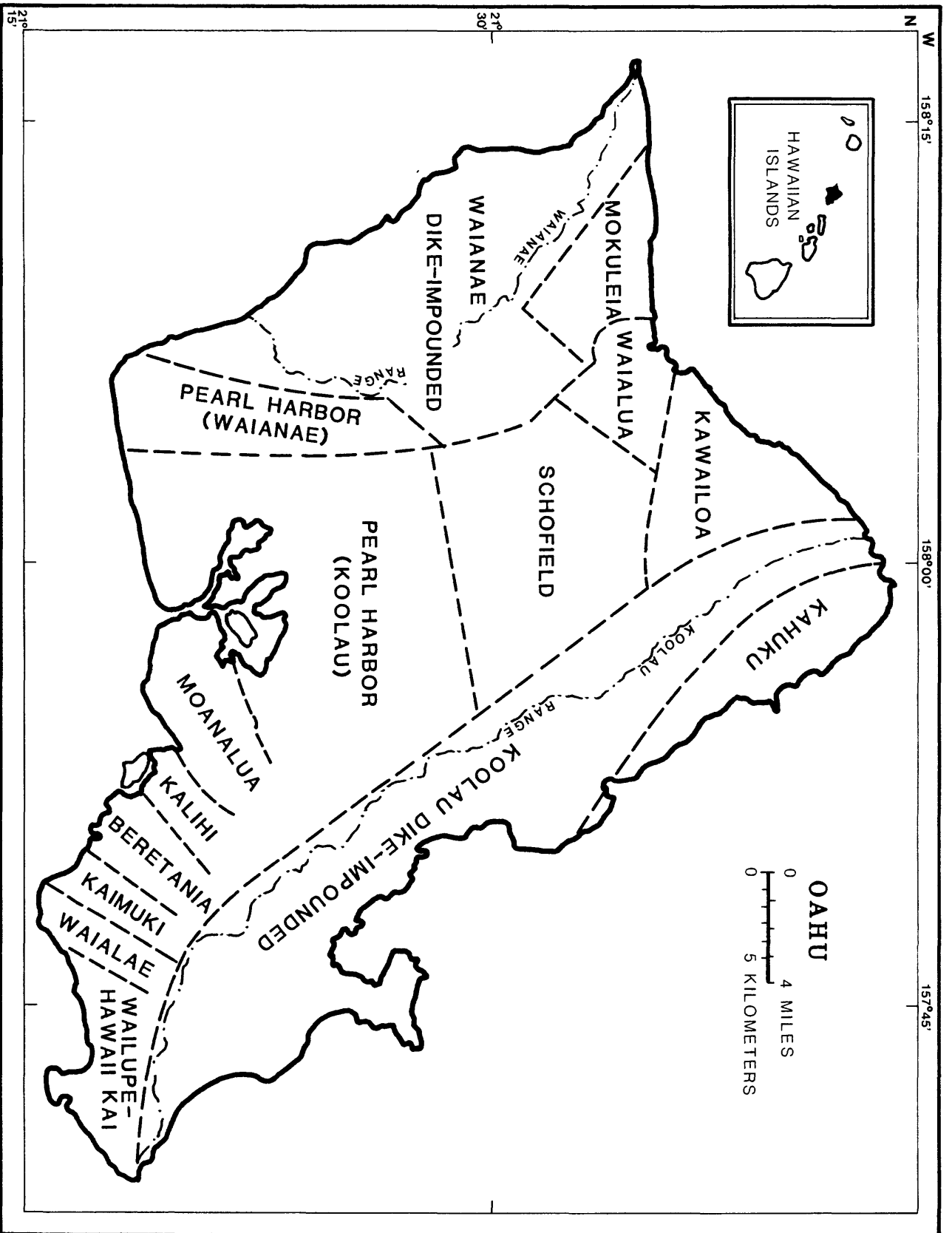


Figure 3. Map showing ground-water bodies of the island of Oahu.

SOUTHEAST OAHU

List of abbreviations

For table 1:

Ground-water bodies:

WAIALAE = Waialae ground-water body

WAILUPE-HKAI = Wailupe-Hawaii Kai ground-water body

C/O:

C = Cased well

O = Open hole

U = Use of water

A = Air conditioning

B = Bottling

C = Commercial

E = Power generation

F = Fire

H = Domestic

I = Irrigation

J = Industrial cooling

S = Status of site

C = Emergency supply

O = Observation

T = Test

For table 2:

LOG = Log data available

FLOW = Flow data available

TEST = Pump test data available

Sources (in parentheses):

A = U.S. Army

B = City and County of Honolulu Board of Water Supply

D = Driller

K = Kahuku Plantation

N = U.S. Navy

O = Oahu Sugar Company

P = Private

S = State of Hawaii (various agencies)

U = U.S. Geological Survey

W = Waiialua Sugar Company

X = Unknown

Z = Other

N = Industrial

P = Public supply

Q = Aquaculture

R = Recreation

S = Stock supply

T = Institutional

U = Unused

Z = Other

U = Unused

W = Withdrawal

Z = Destroyed

Table 1. General information on the wells, shafts and tunnels in Southeast Oahu

WELL NUMBER	MAP NO.	GROUND-		ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
		WATER BODY			DEPTH (ft)	C	DEPTH (ft)							
3-1547-01	13	WAIALAE		3.00	70.00	C	46.00	8	1956	G WOOD		R	W	
3-1642-01	15	WAILUPE-HKAI		20.00	220.00	C	169.00	6	1959	H KAISER		-	Z	FILLED.
3-1642-02	15	do.		6.00	272.00	C	176.00	8	1966	do.		Z	W	FISH POND.
3-1645-01	15	WAILUPE-HKAI		2.81	31.60	C	21.00	2	1936	R THOMPSON		-	Z	FILLED.
3-1646-01	13	WAIALAE		18.00	120.00	C	43.00	8	1881	WAIALAE CC		I	W	USGS OBS/NETWORK WELL.
3-1646-02	13	do.		18.00	131.00	C	100.00	4	1881	BISHOP ESTATE		U	O	BMS OBS/NETWORK WELL.
3-1646-03	13	WAILUPE-HKAI		4.30	150.00	C	116.00	12	1963	KAHALA HILTON		Z	W	SALTWATER POOL.
3-1646-04	13	do.		9.00	29.00	C	20.00	12	1968	BISHOP ESTATE		U	W	
3-1647-01	13	WAIALAE		8.00	70.00	0	-----	VAR	1937	D CROMWELL		U	T	HOLE DIA. 6 TO 2 IN.
3-1647-02	13	do.		3.00	60.00	C	41.50	8	1954	H KAISER		R	W	
3-1647-03	13	do.		4.00	70.00	C	43.00	8	1955	P FAGAN		R	W	
3-1740-01	15	WAILUPE-HKAI		38.00	125.00	C	-----	6	1943	I SHINSHIRO		-	Z	FILLED/TOO SALTY FOR IRRIG.
3-1740-02	15	do.		100.00	120.00	C	102.00	6	1945	do.		-	Z	ABANDONED.
3-1740-03	15	do.		96.00	105.00	C	105.00	6	1947	G PEDERSON		-	Z	Do.
3-1740-04	15	do.		140.63	-----	C	-----	8	1950	A MOTOSUE		-	Z	FILLED.
3-1740-05	15	do.		100.00	200.00	C	90.00	6	1951	do.		-	Z	Do.
3-1741-01	15	WAILUPE-HKAI		14.35	39.00	C	36.50	5	1937	H TYSON		-	Z	SEALED APR 1968.
3-1741-02	15	do.		55.00	70.00	C	70.00	4.50	1938	do.		-	Z	SEALED MAR 1968.
3-1742-01	15	WAILUPE-HKAI		23.00	47.00	C	25.00	8	1955	A HOKAMA		-	Z	ABANDONED.
3-1743-01	15	WAILUPE-HKAI		2.00	60.00	C	56.00	8	1958	KAISER-BURNS		R	W	
3-1744-01	15	WAILUPE-HKAI		13.00	102.00	C	60.00	6	1938	D OLIVER		S	W	
3-1744-02	15	do.		20.00	201.00	C	108.00	6	1939	YAMASHITA		S	W	
3-1744-03	15	do.		3.00	28.00	C	27.00	6	1951	DILLINGHAM CORP.		I	W	
3-1745-01	15	WAILUPE-HKAI		379.00	435.00	C	406.00	14	1981	HONOLULU BMS		U	W	
3-1746-01	13	WAIALAE		156.00	305.00	C	193.00	12	1968	HONOLULU BMS		P	W	
3-1746-02	15	WAILUPE-HKAI		386.00	453.00	C	413.00	12	1973	do.		P	W	

Table 1. General information on the wells, shafts and tunnels in Southeast Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	DIA. (in.)					
3-1747-01	13	WAIALAE	152.04	170.80	C	168.00	1	1935	HONOLULU BWS	U	O	BWS OBS WELL.
3-1747-02	13	do.	160.00	157.00	O	-----	-----	1937	do.	P	W	WAIALAE SHAFT 7.
3-1747-03	13	do.	309.60	410.00	C	367.00	14	1983	STATE DOWALD	P	W	
3-1840-01	15	WAILUPE-HKAI	94.00	116.00	C	67.00	6	1945	GOMES	-	Z	ABANDONED.
3-1840-02	15	do.	106.00	116.00	C	95.00	6	1945	Y KUBA	-	Z	Do.
3-1840-03	15	do.	78.00	99.00	C	99.00	6	1946	T TAJIRI	-	Z	Do.
3-1840-04	15	do.	88.00	110.00	C	108.00	7	1947	E LEONG	-	Z	Do.
3-1840-05	15	do.	67.00	83.00	C	83.00	6	1949	T MAESHIRO	-	Z	Do.
3-1840-06	15	do.	78.00	100.80	C	89.00	8	1949	H CHINEN	-	Z	Do.
3-1840-07	15	do.	75.00	89.00	C	87.50	6	1950	P ING	-	Z	Do.
3-1841-01	15	WAILUPE-HKAI	37.00	275.00	O	-----	8	1956	M KANESHIRO	-	Z	FILLED/VERY LITTLE WATER.
3-1842-01	15	WAILUPE-HKAI	35.00	200.00	O	-----	6	1945	R SHINDO	-	Z	FILLED/VERY LITTLE WATER.
3-1843-01	15	WAILUPE-HKAI	218.00	268.00	C	218.00	12	1983	STATE DOWALD	P	W	
3-1843-02	15	do.	-----	270.00	C	249.00	12	1983	do.	P	W	
3-1946-01	15	WAIALAE	987.00	-----	O	-----	-----	1920	HONOLULU BWS	P	W	PALOLO TUNNEL.

Table 2. Available data for wells, shafts and tunnels in Southeast Oahu

WELL NUMBER	FLIGHT LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1547-01	X	SALTWATER		
3-1642-01	X	1959 18,800 ppm (U)		
3-1642-02	X	SALTWATER		
3-1645-01	X	1949 629 (U)	1936 1.58 (D) 1949 1.63 (U)	
3-1646-01		1919 154 (U) MONTHLY (U) 1929-34, 1936-84 (B) 1929-55 BIMONTHLY (B) 1956-84	1928 8.47 (U) MONTHLY (U) 1932-34, 1936-64 SEMIANNUAL (B) 1934-61, 1963	MONTHLY (B) 1930-84.
3-1646-02		1933 188 (B) 1934 165 (B)	DAILY (B) 1933-84 MONTHLY (U) 1973-84	
3-1646-03	X	1963 19,000 ppm (U)		
3-1646-04	X	MONTHLY (U) 1971-78 ANNUAL (B) 1971-72, 1974-75	1970 2.79 (U) ANNUAL (B) 1976-81	MONTHLY (B) 1972-75.
3-1647-01	X			
3-1647-02	X	SALTWATER		
3-1647-03	X	SALTWATER		
3-1740-01	X	1943 1,500 (U)		
3-1740-02	X	1945 1,050 (U)	1945 0.61 (U)	
3-1740-03	X	1947 875 (U) 1965 1,530 (B) 1955 1,580 (U) 1968 1,450 (U)	1947 0.79 (U)	
3-1740-04		1950 604 (U)	1950 3.31 (U)	
3-1740-05	X			
3-1741-01	X	1937 416 (U)	1937 1.67 (U)	

Table 2. Available data for wells, shafts and tunnels in Southeast Oahu--Continued

WELL NUMBER	FLIE O O I S G I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1741-02	X		1938 1.54 (U)	
3-1742-01	X	1955 4,320 ppm (U)	1955 2.53 (U)	
3-1743-01	X	1958 2,660 ppm (U)		
3-1744-01	X	1938 223 (U) 1938 582 (S)	1938 2.21 (U)	
3-1744-02	X	1939 87 (U)	1939 2.08 (U)	
3-1744-03	X	1951 525 (D) 1958 487 (U)		
3-1745-01	X	1981 75 (S)	1981 3.71 (S) 1984 5.45 (B) 1982 5.69 (B)	
3-1746-01	X	1968 256 (B) 1972 138 (U) MONTHLY (B) 1970-84	ANNUAL (B) 1968-70, 1975-83 BIMONTHLY (B) 1971-74	MONTHLY (B) 1976-84.
3-1746-02	X	1973 140 (U) MONTHLY (B) 1976-84	1973 2.76 (B) 1975 2.80 (B) 1974 2.70 (B)	MONTHLY (B) 1976-84.
3-1747-01	X		WEEKLY (B) 1935-75	
3-1747-02	X	ANNUAL (B) 1936-46 MONTHLY (B) 1947-84	DAILY (B) 1937-53 ANNUAL (B) 1954-58, 1963-72, 1974-75, 1984 MONTHLY (B) 1976-81	MONTHLY (B) 1937-84.
3-1747-03	X	1983 45 (S) 1983 41 (U)	1983 10.68 (S)	
3-1840-01	X	1946 667 (U) 1965 1,040 (B)	1946 1.33 (U)	
3-1840-02	X	1945 785 (U)	1945 2.58 (U)	
3-1840-03	X	1946 922 (U)	1946 3.03 (U)	
3-1840-04	X	1947 975 (U) 1955 834 (U)	1947 2.22 (U)	

Table 2. Available data for wells, shafts and tunnels in Southeast Oahu--Continued

WELL NUMBER	F I T L I E O I S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1840-05	X	1949 1,190 (U) 1965 1,100 (B) 1955 1,300 (U)	1949 0.58 (U)	
3-1840-06	X	1949 1,370 (U) 1955 1,390 (U)	1949 0.70 (U)	
3-1840-07	X	1950 1,740 (U)	1950 0.76 (U)	
3-1841-01	X			
3-1842-01	X		1945 0.81 (U)	
3-1843-01	X	1983 100 (U)	1983 3.70 (S)	
3-1843-02	X	1983 95 (S)		
3-1946-01	-			MONTHLY (B) 1925-84.

SOUTHERN OAHU

List of abbreviations

For table 3:

Ground-water bodies:

BERETANIA = Beretania ground-water body
 KALIHI = Kalihi ground-water body
 MOANALUA = Moanalua ground-water body
 KAIMUKI = Kaimuki ground-water body
 PH-KOOLAU = Pearl Harbor (Koolau) ground-water body
 PH-WAIANAE = Pearl Harbor (Waianae) ground-water body
 SCHOFIELD = Schofield ground-water body
 WAIANAE-DIKE = Waianae dike-impounded ground-water body

C/O:

C = Cased well
 O = Open hole

U = Use of water

A = Air conditioning
 B = Bottling
 C = Commercial
 E = Power generation
 F = Fire
 H = Domestic
 I = Irrigation
 J = Industrial cooling

N = Industrial
 P = Public supply
 Q = Aquaculture
 R = Recreation
 S = Stock supply
 T = Institutional
 U = Unused
 Z = Other

S = Status of site

C = Emergency supply
 O = Observation
 T = Test
 U = Unused
 W = Withdrawal
 Z = Destroyed

For table 4:

LOG = Log data available
 FLOW = Flow data available
 TEST = Pump test data available

Sources (in parentheses):

A = U.S. Army
 B = City and County of Honolulu Board of Water Supply
 D = Driller
 K = Kahuku Plantation
 N = U.S. Navy
 O = Oahu Sugar Company
 P = Private
 S = State of Hawaii (various agencies)
 U = U.S. Geological Survey
 W = Waialua Sugar Company
 X = Unknown
 Z = Other

Table 3. General information on the wells, shafts and tunnels in Southern Oahu

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	C DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-1549-01	13	KAIMUKI	15.00	1500.00	0	-----	-----	1882	CAMPBELL ESTATE	-	Z	ABANDONED 1882.
3-1549-02	13	do.	6.00	135.00	C	60.00	8	1955	A RENTON	R	W	
3-1648-01	13	KAIMUKI	185.00	196.00	C	24.00	10	1936	E LORD	U	U	
3-1649-01	13	KAIMUKI	5.00	856.00	C	856.00	VAR	1883	G LUCAS	-	Z	SEALED FEB 1927/DIA. 7 TO 5 IN.
3-1649-02	13	do.	5.00	860.00	C	640.00	4	1883	STATE	-	Z	SEALED JAN 1926.
3-1649-03	13	do.	4.00	746.00	C	-----	6	1883	CAMPBELL ESTATE	-	Z	SEALED OCT 1925.
3-1649-04	13	do.	4.00	825.00	C	-----	6	1883	do.	-	Z	SEALED OCT 1925.
3-1649-05	13	do.	8.00	586.00	C	448.00	VAR	1884	STATE	-	Z	SEALED JULY 1928/DIA. 8 TO 7 IN.
3-1649-06	13	do.	4.00	516.00	C	507.00	6	1891	do.	-	Z	SEALED AUG 1928.
3-1649-07	13	do.	5.00	941.00	C	-----	10	1892	do.	-	Z	SEALED JULY 1927.
3-1649-08	13	do.	5.00	666.00	C	608.00	8	1900	GUARDIAN TRUST	-	Z	SEALED SEPT 1928.
3-1649-09	13	do.	4.00	810.00	C	781.00	VAR	1914	MATSON NAV. CO.	-	Z	SEALED OCT 1928/DIA. 12 TO 10 IN.
3-1649-10	13	do.	2.00	85.00	C	46.00	12	1954	STATE AQUARIUM	Q	W	
3-1649-11	13	do.	5.00	57.00	C	20.00	8	1967	C&C P&R HNL ZOO	R	W	
3-1748-01	13	KAIMUKI	48.00	-----	C	86.00	8	1895	BISHOP ESTATE	U	U	FORMER BMS OBS WELL.
3-1748-02	13	do.	29.00	159.00	C	100.00	10	1884	E BOOTH	-	Z	SEALED SEPT 1:28.
3-1748-03Z												3-1748-03 TO 10.
3-1748-03	13	KAIMUKI	25.00	260.00	C	-----	12	1898	HONOLULU BMS	P	W	
3-1748-04	13	do.	26.00	260.00	C	-----	12	1898	do.	P	W	
3-1748-05	13	do.	27.00	245.00	C	100.00	12	1912	do.	P	W	
3-1748-06	13	do.	27.00	255.00	C	100.00	12	1912	do.	P	W	
3-1748-07	13	do.	29.00	301.00	C	95.00	12	1925	do.	P	W	
3-1748-08	13	do.	28.00	304.00	C	101.00	12	1925	do.	P	W	
3-1748-09	13	do.	28.00	302.00	C	101.00	12	1925	do.	P	W	
3-1748-10	13	do.	32.00	308.00	C	114.00	6	1960	do.	U	O	MONITOR WELL.
3-1748-11	13	do.	29.00	1404.00	C	114.00	6	1975	do.	U	O	MONITOR WELL/DIA. 12 TO 8 IN.
3-1748-12	13	do.	121.00	368.00	C	287.00	VAR	1975	do.	U	O	
3-1748-13	13	do.	40.20	100.00	C	100.00	12	1984	do.	U	U	
3-1749-01	13	KAIMUKI	15.00	407.00	C	-----	6	1881	C SPENCER	-	Z	SEALED APR 1972.
3-1749-02	13	do.	13.00	428.00	C	-----	6	1881	Y SHEE	-	Z	SEALED SEPT 1938.
3-1749-03	13	do.	10.00	730.00	-	-----	-----	1882	MAGOON TRUST	-	Z	LOST.
3-1749-04	13	do.	28.00	286.00	C	190.00	8	1883	STATE	-	Z	SEALED MAR 1926.
3-1749-05	13	do.	8.00	587.00	C	564.00	6	1883	T UNG	-	Z	SEALED AUG 1945.
3-1749-06	13	do.	22.00	162.00	C	125.00	10	1884	BISHOP ESTATE	-	Z	SEALED MAY 1930.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C							
3-1749-07	13	KAIMUKI	14.30	622.00	C	305.00	8	1885	STATE	U	0	USGS OBS WELL/SAMPLE TUBE A.
3-1749-07	13	do.	14.30	622.00	C	614.00	0.75	1951	do.	U	0	USGS OBS/FORMER NETWORK/TUBE D.
3-1749-07	13	do.	14.30	459.00	C	435.00	0.50	1951	do.	U	0	USGS OBS/FORMER NETWORK/TUBE E.
3-1749-07	13	do.	14.35	393.00	C	374.00	0.50	1951	do.	U	0	USGS OBS/FORMER NETWORK/TUBE E.
3-1749-08	13	do.	11.00	411.00	C	196.00	4	1888	C IAUKEA	U	0	SAMPLE TUBE A.
3-1749-08	13	do.	11.00	411.00	C	408.00	0.38	1945	do.	U	0	SAMPLE TUBE A.
3-1749-09	13	do.	12.00	513.00	C	470.00	6	1889	C & C HONO	-	Z	SEALED JUNE 1928.
3-1749-10	13	do.	13.00	463.50	C	424.50	10	1889	F TSUMOTO	-	Z	SEALED JULY 1940.
3-1749-11	13	do.	13.00	475.00	C	420.00	10	1889	S OJMAE	-	Z	SEALED SEPT 1945.
3-1749-12	13	do.	12.00	521.00	C	418.00	6	1889	Y CHAR	-	Z	SEALED AUG 1949.
3-1749-13	13	do.	14.00	500.00	C	430.00	8	1889	L WHEE	-	Z	SEALED OCT 1928.
3-1749-14	13	do.	13.00	417.00	C	282.00	8	1891	HONOLULU BWS	U	0	BWS OBS WELL/SAMPLE TUBE A.
3-1749-14	13	do.	13.00	417.00	C	412.00	0.75	1951	do.	U	0	BWS OBS WELL/SAMPLE TUBE B.
3-1749-14	13	do.	13.00	417.00	C	327.00	0.75	1951	do.	U	0	BWS OBS WELL/SAMPLE TUBE B.
3-1749-15	13	do.	19.00	164.00	C	122.00	6	1891	D NAKANO	-	Z	SEALED JULY 1940.
3-1749-16	13	do.	9.00	432.00	C	351.00	10	1911	US ARMY	-	Z	SEALED APR 1967.
3-1749-17	13	do.	11.00	465.00	C	400.00	10	1917	HWN HOTELS LTD.	-	Z	SEALED FEB 1971.
3-1749-18	13	do.	16.08	269.00	C	255.00	4	1921	LOVE'S BAKERY	N	W	FORMER USGS OBS WELL.
3-1749-19	13	do.	21.00	276.00	C	175.00	12	1927	HWN HOTELS LTD.	P	W	
3-1749-20	13	do.	15.00	32.00	C	14.00	VAR	1954	STAR MARKET	A	W	
3-1749-22	13	do.	14.34	911.00	C	305.00	8	1970	HONOLULU BWS	U	0	MONITOR WELL.
3-1749-23	13	do.	40.00	100.00	C	100.00	12	1984	UNIV HAWAII	U	0	CASING DIA. 14 TO 12 IN.
3-1750-01	13	BERETANIA	14.00	475.00	C	-----	8	1881	C & C HONO	-	Z	SEALED MAR 1932.
3-1750-02	13	do.	9.00	416.00	C	355.00	8	1890	do.	-	Z	SEALED MAR 1976.
3-1750-03	13	do.	10.00	374.00	C	340.00	8	1890	DIAMOND BKRY	-	Z	SEALED FEB 1929.
3-1750-04	13	do.	3.00	62.00	C	61.00	10	1950	HILTON HTL	U	T	
3-1750-05	13	do.	15.00	154.00	C	70.00	8	1953	TIMES MRKT	A	W	
3-1750-06	13	do.	5.00	122.00	C	93.00	8	1955	HILTON HTL	-	Z	ABANDONED.
3-1750-07	13	do.	3.00	120.00	C	98.00	8	1955	do.	-	Z	Do.
3-1750-08	13	do.	3.00	90.00	C	42.00	8	1955	do.	-	Z	Do.
3-1750-09	13	do.	7.00	53.00	C	21.00	16	1964	PAGODA HTL	A	W	
3-1751-01	13	BERETANIA	3.00	142.00	C	42.00	12	1939	HAWN TUNA PKCR	N	W	
3-1751-02	13	do.	3.00	150.00	C	62.00	12.50	1949	do.	N	W	
3-1751-03	13	do.	2.00	92.00	C	79.00	6	1959	STATE DLNR F&G	Q	W	
3-1751-05	13	do.	2.00	-----	-	-----	-----	1968	UH INST MAR BIO	Q	W	
3-1751-06	13	do.	5.00	151.00	C	52.00	16	1970	NAGATA LTD.	Q	W	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-1800-01	10	PH-KOOLAU	6.00	106.00	105.00	4	1972	NOAA	U	O	
3-1805-01	6	PH-WAIIANAE	22.00	50.00	2.00	7	1957	CAMPBELL ESTATE	U	T	
3-1805-02	6	do.	18.00	100.00	40.00	20	1978	OCEAN MINERALS	N	W	
3-1806-01	6	PH-WAIIANAE	9.00	50.00	3.00	7	1957	CAMPBELL ESTATE	U	T	
3-1806-02	6	do.	7.00	50.00	2.00	7	1957	do.	U	T	
3-1806-03	6	do.	12.00	100.00	48.00	16	1959	HWN WEST STEEL	N	W	
3-1806-04	6	do.	12.00	50.00	-----	VAR	1959	do.	N	W	HOLE DIA. 20 TO 16 IN.
3-1806-05	6	do.	12.00	40.00	40.00	8	1959	SO PIPE & CASNG	N	W	
3-1806-06	6	do.	7.00	50.00	-----	VAR	1959	STAND OIL CO.	N	W	HOLE DIA. 24 TO 18 IN.
3-1806-08	6	do.	9.00	215.00	210.00	6	1972	DIL-CONOCO	U	O	
3-1847-01	13	KAIMUKI	387.20	570.00	420.00	12	1974	HONOLULU BMS	P	W	
3-1849-01	13	BERETANIA	37.00	295.00	273.00	3	1880	E MARQUES	-	Z	SEALED AUG 1938.
3-1849-02	13	do.	25.00	358.00	306.00	8	1881	M HOWARD	-	Z	SEALED APR 1943.
3-1849-03	13	do.	200.00	980.00	-----	-----	1882	D PIETSCH	-	Z	SEALED 1953.
3-1849-04	13	do.	30.00	242.00	181.00	6	1885	T SOON	-	Z	SEALED JUNE 1929.
3-1849-05	13	do.	48.00	213.00	172.00	6	1889	PUNAHOU SCH	-	Z	SEALED FEB 1929.
3-1849-06	13	do.	17.00	298.00	-----	8	1891	S CHING	U	U	
3-1849-07	13	do.	18.00	-----	-----	8	1891	Y OZU	U	U	
3-1849-08	13	do.	20.00	397.00	337.00	8	1894	J CHINM	-	Z	SEALED SEPT 1951.
3-1849-09	13	do.	170.00	194.00	103.00	10	1901	R MORGAN	-	Z	SEALED SEPT 1947.
3-1849-10	13	do.	44.00	317.00	199.00	8	1909	PUNAHOU SCH	T	W	
3-1849-11Z											3-1849-11 TO 12. FORMER BMS OBS WELL.
3-1849-11	13	BERETANIA	43.00	304.00	272.00	12	1912	HONOLULU BMS	U	U	
3-1849-12	13	do.	43.00	430.00	300.00	12	1912	do.	U	U	
3-1849-13Z											3-1849-13 TO 16. CASING DIA. 16 TO 12 IN.
3-1849-13	13	BERETANIA	53.00	403.00	288.00	VAR	1961	HONOLULU BMS	P	W	
3-1849-14	13	do.	59.00	407.00	269.00	16	1961	do.	P	W	
3-1849-15	13	do.	42.00	396.00	253.00	16	1962	do.	P	W	
3-1849-16	13	do.	56.00	340.00	282.00	16	1962	do.	P	W	
3-1850-01	13	BERETANIA	144.00	-----	-----	7	-----	STATE	-	Z	SEALED FEB 1932.
3-1850-02	13	do.	25.00	475.00	347.00	5	1880	BISHOP TRUST	-	Z	SEALED DEC 1953.
3-1850-03	13	do.	160.00	900.00	-----	12	1881	HONOLULU BMS	U	U	
3-1850-04	13	do.	36.00	300.00	-----	6	1882	DILLINGHAM CORP.	-	Z	SEALED NOV 1932.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C							
3-1850-05	13	BERETANIA	28.00	310.00	C	237.50	5	1882	M RAWLINS	-	Z	SEALED NOV 1928.
3-1850-06	13	do.	47.00	408.00	C	177.00	4	1882	J DOMSETT	-	Z	SEALED MAR 1954.
3-1850-07	13	do.	37.00	375.00	C	-----	7	1882	BARCOCK	-	Z	SEALED SEPT 1926.
3-1850-08	13	do.	34.00	358.00	C	-----	7	1882	BANK OF HAWAII	-	Z	SEALED APR 1933.
3-1850-09	13	do.	6.00	620.00	C	-----	6	1882	STATE	-	Z	SEALED AUG 1938.
3-1850-10	13	do.	28.00	281.00	C	234.00	6	1883	L YAP	-	Z	SEALED JULY 1928.
3-1850-11	13	do.	36.00	310.00	C	267.00	6	1882	DILLINGHAM CORP.	-	Z	SEALED DEC 1953.
3-1850-12	13	do.	25.00	311.00	C	305.00	6	1884	M HOWARD	-	Z	SEALED APR 1943.
3-1850-13	13	do.	37.00	357.00	C	254.00	6	1884	Y VILLADA	-	Z	SEALED JULY 1952.
3-1850-14	13	do.	40.00	271.00	C	240.00	6	1884	R KING	-	Z	SEALED DEC 1946.
3-1850-15	13	do.	17.00	656.00	C	455.00	VAR	1884	G WILCOX	-	Z	SEALED JAN 1927/DIA. 6 TO 4 IN.
3-1850-16	13	do.	22.00	420.00	C	378.00	VAR	1886	C & C HONO	-	Z	SEALED JUNE 1940/DIA. 6 TO 5 IN.
3-1850-17	13	do.	16.00	510.00	C	-----	8	1887	HWN ELEC CO.	-	Z	SEALED OCT 1924.
3-1850-18	13	do.	29.00	383.00	C	-----	8	1890	TANNER & MOSSMAN	-	Z	SEALED JULY 1928.
3-1850-19	13	do.	41.00	277.00	C	220.00	10	1890	JODO MISSION	-	Z	SEALED NOV 1928.
3-1850-20	13	do.	16.00	437.00	C	377.00	8	1891	PLEWS & WICHMAN	-	Z	SEALED OCT 1953.
3-1850-21	13	do.	20.00	409.00	C	312.00	8	1894	HONOLULU BWS	-	Z	SEALED AUG 1973.
3-1850-22	13	do.	16.00	521.00	C	-----	VAR	1894	BISHOP ESTATE	-	Z	SEALED NOV 1932/DIA. 8 TO 6 IN.
3-1850-23	13	do.	104.00	194.00	C	86.00	10	1899	M CONDON	-	Z	SEALED JUNE 1928.
3-1850-24	13	do.	137.00	302.00	C	256.00	10	1906	S LOWREY	-	Z	SEALED OCT 1924.
3-1850-25	13	do.	150.00	123.00	C	86.00	12	1907	C KIM	-	Z	SEALED DEC 1946.
3-1850-26	13	do.	15.00	435.00	C	341.00	10	1910	II ESTATE	-	Z	SEALED AUG 1940.
3-1850-27	13	do.	8.00	552.00	C	486.00	10	1914	MEADOW GOLD	-	Z	SEALED OCT 1963.
3-1850-28	13	do.	20.00	71.00	C	22.00	6	1938	DAIRYMEN ASSOC.	U	U	SEALED ?
3-1851-01	13	BERETANIA	16.00	540.00	C	-----	5	1881	C & C HONO	-	Z	SEALED SEPT 1962.
3-1851-02	13	do.	27.00	474.00	C	458.00	2.50	1882	HONOLULU BWS	U	O	BWS OBS WELL.
3-1851-03	13	do.	14.00	767.00	C	711.00	VAR	1882	STATE	-	Z	SEALED FEB 1977/DIA. 5 TO 4 IN.
3-1851-04	13	do.	14.50	752.20	C	703.20	4	1882	do.	U	O	
3-1851-04 TB A	13	do.	14.50	752.20	C	748.70	0.50	1954	do.	U	O	USGS OBS WELL/SAMPLE TUBE A.
3-1851-04 TB B	13	do.	14.50	752.20	C	733.70	0.50	1954	do.	U	O	USGS OBS WELL/SAMPLE TUBE B.
3-1851-05	13	do.	20.00	636.00	C	-----	6	1882	K COOPER	-	Z	SEALED SEPT 1925.
3-1851-06	13	do.	17.00	503.00	C	234.00	6	1883	VIDA VILLA	-	Z	SEALED FEB 1927.
3-1851-07	13	do.	28.00	560.00	C	497.00	3	1884	PACIFIC CLUB	C	W	
3-1851-08	13	do.	19.00	648.00	C	584.00	8	1889	HON RAPID TRANS	-	Z	SEALED MAY 1950.
3-1851-09	13	do.	14.32	748.00	C	710.00	4	1893	KAWATHAO CHURCH	I	W	
3-1851-10	13	do.	30.00	486.00	C	428.00	8	1894	C COOKE	-	Z	SEALED DEC 1928.
3-1851-11	13	do.	24.00	521.00	C	419.00	8	1894	QUEENS HOSP	-	Z	SEALED MAY 1960.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP.	OWNER	U S	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	C					
3-1851-12Z	13	BERETANIA	21.00	580.00	C	499.00	10	1895	HONOLULU BMS	P W		3-1851-12-13, 24-25, 31-35, 67.
3-1851-13	13	do.	22.00	616.00	C	499.00	10	1895	do.	P W		
3-1851-14	13	do.	6.00	692.00	C	647.00	10	1897	C & C HONO	- Z		SEALED JUNE 1940.
3-1851-15	13	do.	5.00	734.00	C	602.00	8	1898	HC & D CO.	- Z		
3-1851-16	13	do.	28.00	1007.00	C	-----	6	1889	C & C HONO	- Z		SEALED JAN 1939.
3-1851-17	13	do.	5.00	1007.00	C	803.00	8	1900	HON IRON WORKS	- Z		SEALED SEPT 1940.
3-1851-18	13	do.	8.00	799.00	C	776.00	8	1900	AM BREW CO.	N W		
3-1851-19	13	do.	6.00	1053.00	C	957.00	10	1897	HWN ELEC CO.	U O		
3-1851-19 TB A	13	do.	6.00	1053.00	C	1044.40	0.50	1956	do.	U O		USGS OBS/NETWORK WELL/TUBE A.
3-1851-19 TB B	13	do.	6.00	1053.00	C	989.40	0.50	1956	do.	U O		USGS OBS/NETWORK WELL/TUBE B.
3-1851-20	13	do.	16.00	574.00	C	533.00	8	1901	HON RAPID TRANS	C W		
3-1851-21	13	do.	5.00	792.00	C	615.00	8	1901	MAGOON ESTATE	I W		
3-1851-22	13	do.	6.50	1142.00	C	1142.00	3	1901	US ARMY	U O		MONITOR WELL.
3-1851-23	13	do.	15.00	960.00	C	850.00	10	1901	YOUNG HTL	- Z		SEALED NOV 1971.
3-1851-24	13	do.	20.00	608.00	C	487.00	12	1910	HONOLULU BMS	P W		
3-1851-25	13	do.	17.00	617.00	C	495.00	12	1910	do.	N W		SEALED FEB 1969.
3-1851-26	13	do.	6.00	725.00	C	659.00	8	1910	HAW BREW CORP.	- Z		
3-1851-27	13	do.	2.00	1145.00	C	805.00	12	1910	HWN ELEC CO.	- Z		SEALED JAN 1956.
3-1851-28	13	do.	18.00	505.00	C	476.00	8	1913	MEDICAL ARTS BL	U U		FORMER USGS OBS WELL.
3-1851-29	13	do.	7.00	1009.00	C	900.00	VAR	1913	INTR ISLAND NAV	- Z		SEALED DEC 1938/DIA. 12 TO 10 IN.
3-1851-30	13	do.	18.00	810.00	C	706.00	10	1915	HON MOSE MART	P W		
3-1851-31	13	do.	20.00	600.00	C	489.00	12	1924	HONOLULU BMS	P W		
3-1851-32	13	do.	20.00	600.00	C	489.00	12	1924	do.	P W		
3-1851-33	13	do.	14.00	533.00	C	479.00	12	1926	do.	P W		
3-1851-34	13	do.	14.00	533.00	C	484.00	12	1926	do.	P W		
3-1851-35	13	do.	15.00	566.00	C	488.00	12	1926	do.	P W		
3-1851-36	13	do.	15.00	700.00	C	603.00	6	1936	HWN JUICE IND	- Z		SEALED APR 1969.
3-1851-37	13	do.	24.00	52.50	C	40.00	8	1936	CONS AMUS CO.	A W		
3-1851-38	13	do.	12.00	100.00	C	20.00	6	1937	C BREWER & CO.	A W		
3-1851-39	13	do.	21.00	60.00	C	20.00	6	1937	CONS AMUS CO.	A W		
3-1851-40	13	do.	13.00	42.00	C	29.00	6	1938	EAST APPL CO.	A W		
3-1851-41	13	do.	21.00	46.00	C	42.00	6	1938	FRONK & WYNN	A W		
3-1851-42	13	do.	10.00	50.00	C	40.00	8	1939	WILCOX CORP.	- Z		FILLED.
3-1851-44	13	do.	15.00	62.00	C	40.00	6	1939	MEDICAL GROUP	- Z		SEALED 1957.
3-1851-45	13	do.	8.00	80.00	C	21.00	6	1939	CAPITAL INV	- Z		SEALED.
3-1851-47	13	do.	10.00	41.00	C	22.00	6	1939	WALSTON & CO.	- Z		ABANDONED.
3-1851-49	13	do.	10.00	60.00	C	21.00	-----	1940	ROYAL AMUSEMENT	A W		

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-1851-50	13	BERETANIA	25.00	25.00	C	6.00	3	1940	W RAMSEY	A	W	
3-1851-51	13	do.	18.00	71.00	C	24.00	8	1952	STATE	A	W	
3-1851-52	13	do.	15.00	100.00	C	100.00	8	1952	BANK OF HAWAII	A	W	
3-1851-53	13	do.	8.00	122.00	C	30.00	12	1956	ALEX & BALDWIN	A	W	
3-1851-54	13	do.	34.00	488.00	C	365.00	10	1958	QUEENS HOSP	T	W	
3-1851-55	13	do.	16.00	40.00	C	3.00	24	1958	AM MUTUAL INS	A	W	
3-1851-56	13	do.	16.00	30.00	C	3.00	24	1958	do.	A	W	
3-1851-57	13	do.	23.00	1509.00	C	1509.00	VAR	1960	HONOLULU BUS	U	O	MONITOR WELL/DIA. 6 TO 3 IN.
3-1851-58	13	do.	6.00	720.00	C	505.00	VAR	1960	PAC LNDRY & DRY	C	W	CASING DIA. 8 TO 6 IN.
3-1851-59	13	do.	8.00	736.00	C	607.00	VAR	1960	SPUDS LNDRY	-	Z	SEALED APR 1976/DIA. 6 TO 4 IN.
3-1851-60	13	do.	16.00	180.00	C	180.00	6	1962	STRAUB CLINIC	T	C	
3-1851-61	13	do.	20.00	74.00	C	71.00	16	1963	STATE	A	W	
3-1851-62	13	do.	5.00	65.00	-	-----	-----	1967	C & C HONO	Z	W	FISH PONDS.
3-1851-63	13	do.	5.00	-----	-	-----	-----	1967	do.	Z	W	Do.
3-1851-66	13	do.	20.00	100.00	-	-----	-----	1967	STATE	A	W	
3-1851-67	13	do.	18.00	637.00	C	494.00	20	1968	HONOLULU BWS	P	W	
3-1851-68	13	do.	7.00	36.00	C	8.00	24	1968	AM FACTORS	A	W	
3-1851-69	13	do.	7.00	40.00	C	9.00	24	1968	do.	A	W	
3-1851-71	13	do.	7.00	45.00	C	10.00	16	1973	CENTER PROP	A	W	
3-1851-72	13	do.	7.00	45.00	C	10.00	18	1973	do.	A	W	
3-1852-01	13	BERETANIA	10.00	60.00	C	20.00	6	1937	CHUN HOON MKT	C	W	
3-1852-02	13	do.	3.00	102.00	C	40.00	8	1939	STATE	-	Z	FILLED.
3-1852-03	13	do.	3.00	52.00	C	16.00	6	1947	CASTLE & COOK	A	W	
3-1852-04	13	do.	3.00	64.00	C	54.00	6	1947	do.	-	Z	BURIED.
3-1852-05	13	do.	3.00	40.00	C	14.00	8	1951	J PODMORE	-	Z	Do.
3-1852-06	13	do.	3.00	94.00	O	-----	24	1953	HWN ELEC CO.	E	W	
3-1852-07	13	do.	8.00	95.00	C	28.00	10	1955	STATE	A	W	
3-1852-08	13	do.	8.00	100.00	C	40.00	12	1971	STATE DOWALD	Q	W	
3-1853-01	13	KALIHI	2.00	120.00	O	-----	-----	1973	STATE	Z	T	FOUNDATION INVESTIGATION.
3-1900-01	10	PH-KOOLAU	25.00	30.00	-	-----	-----	1930	OAHU SGR CO.	I	W	FORMER NETWORK WELL/DUG WELL 20.
3-1900-02	10	do.	23.00	29.00	-	-----	-----	1930	do.	I	W	DUG WELL 22.
3-1900-03	10	do.	15.00	30.00	C	20.00	6	1939	US NAVY	-	Z	SEALED.
3-1900-04	10	do.	15.00	30.00	C	20.00	6	1939	do.	-	Z	Do.
3-1900-05	10	do.	18.00	28.00	C	20.00	6	1941	do.	-	Z	Do.
3-1900-06	10	do.	18.00	30.00	C	22.00	6	1941	do.	-	Z	Do.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-1900-07	PH-KOOLAU	15.00	31.00	29.00	6	1941	US NAVY	-	Z	SEALED.
3-1900-08	do.	11.00	31.00	26.00	6	1941	do.	-	Z	Do.
3-1900-09	do.	15.00	31.00	26.00	6	1941	do.	-	Z	Do.
3-1900-10	do.	19.00	32.00	26.00	6	1941	do.	-	Z	Do.
3-1900-11	do.	12.00	50.00	22.00	6	1941	do.	-	Z	Do.
3-1900-12	do.	5.00	25.00	20.00	6	1962	USCGS	U	U	
3-1900-13	do.	5.00	8.00	-----	-----	1965	OHU SGR CO.	I	W	DUG WELL 41.
3-1900-14	do.	12.00	106.00	105.00	4	1972	NOAA	U	O	
3-1900-15	do.	14.00	126.00	126.00	4	1972	do.	U	O	
3-1901-01	PH-KOOLAU	24.00	29.00	-----	-----	1932	OHU SGR CO.	I	W	DUG WELL 24.
3-1901-02	do.	26.00	30.00	30.00	8	1962	FAA VORTAC	Z	W	SANITARY USE.
3-1902-01	PH-KOOLAU	5.00	8.00	-----	-----	1964	OHU SGR CO.	I	W	DUG WELL 40.
3-1904-01	PH-WAIANAЕ	5.00	8.00	-----	-----	1965	OHU SGR CO.	I	W	DUG WELL 42.
3-1905-01	PH-WAIANAЕ	18.00	50.00	3.00	7	1957	CAMPBELL ESTATE	U	T	
3-1905-02	do.	62.00	90.00	3.00	10	1957	do.	U	T	
3-1906-01	PH-WAIANAЕ	32.00	50.00	4.00	6	1957	CAMPBELL ESTATE	U	T	
3-1906-02	do.	60.00	75.00	4.00	10	1957	do.	U	T	
3-1907-01	WAIANAЕ-DIKE	8.00	30.00	8.00	8	1951	US STATE DEPT.	U	U	
3-1947-01	KAIMUKI	720.00	246.00	100.00	4	1974	SAPUTIK FARM	I	W	
3-1947-02	do.	760.00	-----	-----	-----	1923	HONOLULU BMS	P	W	MANOA TUNNEL 3.
3-1948-01	BERETANIA	384.30	786.00	786.00	12	1983	STATE DONALD	U	U	
3-1950-01	BERETANIA	131.00	220.00	94.00	12	1918	HON SAKE BREW	N	W	
3-1951-01	BERETANIA	35.00	767.00	-----	8	1883	C & C HONO	Z	U	STOPPED UP CAVE- IN.
3-1951-02	KALIHU	50.00	118.00	90.00	8	1894	STATE	-	Z	SEALED JAN 1929.
3-1951-03	do.	23.00	1010.00	1009.00	VAR	1905	SALVATION ARMY	-	Z	SEALED NOV 1931/DIA. 10 TO 7 IN.
3-1951-04	BERETANIA	35.00	53.00	28.00	6	1939	CHUN HOON MKT	C	W	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft.)	WELL		CASING		YEAR COMP.	OWNER	U	S	REMARKS
				DEPTH (ft.)	O (ft.)	DEPTH (ft.)	C (ft.)					
3-1952-01	13	KALIHI	21.00	384.00	C	294.00	5	1882	HWN EVANGL ASSN.	-	Z	SEALED NOV 1945.
3-1952-02	13	do.	30.00	600.00	C	380.00	8	1883	F FELIX	-	Z	SEALED OCT 1926.
3-1952-03	13	do.	6.00	524.00	C	478.00	10	1900	OAHU RLYW & LND	U	U	
3-1952-04	13	do.	16.00	150.00	C	-----	8	1900	Y AHIN TRUST	-	Z	SEALED MAY 1980/FORMER USGS OBS.
3-1952-05	13	do.	20.00	128.00	C	62.00	7	1900	BISHOP ESTATE	-	Z	SEALED APR 1947.
3-1952-06Z												3-1952-06 TO 08, 16 TO 19, 22.
3-1952-06	13	KALIHI	21.00	460.00	C	-----	12	1900	HONOLULU BWS	P	W	
3-1952-07	13	do.	20.00	475.00	C	229.00	12	1900	do.	P	W	
3-1952-08	13	do.	21.00	490.00	C	-----	12	1900	do.	P	W	
3-1952-09	13	do.	21.00	125.00	C	63.00	9	1901	BISHOP ESTATE	-	Z	SEALED APR 1947.
3-1952-10	13	do.	22.00	246.00	C	86.00	12	1901	T ISHIMOTO	-	Z	SEALED AUG 1952.
3-1952-11Z												3-1952-11, 13, 20 TO 21.
3-1952-11	13	KALIHI	5.00	513.00	C	492.00	8	1913	DOLE CORP.	N	W	
3-1952-12	13	do.	5.00	610.00	C	529.00	10	1920	CAL PACK CORP.	N	W	
3-1952-13	13	do.	4.00	650.00	C	549.00	10	1923	DOLE CORP.	N	W	
3-1952-14	13	do.	4.00	682.00	C	613.00	8	1923	HONOLULU GAS	N	W	FORMER USGS OBS WELL.
3-1952-15	13	do.	27.00	335.00	C	257.00	12	1924	PALAMA SETLMNT	R	W	
3-1952-16	13	do.	21.00	430.00	C	240.00	12	1926	HONOLULU BWS	P	W	
3-1952-17	13	do.	19.00	401.00	C	363.00	12	1926	do.	P	W	
3-1952-18	13	do.	24.00	442.00	C	265.00	12	1926	do.	P	W	
3-1952-19	13	do.	23.00	414.00	C	271.00	12	1926	do.	P	W	
3-1952-20	13	do.	5.00	540.00	C	485.00	10	1927	DOLE CORP.	N	W	
3-1952-21	13	do.	4.00	612.00	C	486.00	10	1927	do.	N	W	
3-1952-22	13	do.	24.00	360.00	C	251.00	12	1927	HONOLULU BWS	P	W	
3-1952-23	13	do.	4.00	100.00	C	52.00	8	1939	HWN GAS PROD	-	Z	FILLED.
3-1952-24	13	do.	5.00	80.00	C	54.00	16	1947	HONOLULU GAS	N	W	
3-1952-25	13	do.	5.00	81.00	C	42.00	16	1947	do.	-	Z	FILLED.
3-1952-26	13	do.	5.00	36.00	0	-----	18	1950	CAL PACK CORP.	N	W	
3-1952-27	13	do.	5.00	35.00	0	-----	18	1950	do.	N	W	
3-1952-28	13	do.	5.00	35.00	0	-----	18	1950	do.	N	W	
3-1952-29	13	do.	4.00	40.00	C	37.00	14	1951	DOLE CORP.	-	Z	ABANDONED.
3-1952-31	13	do.	4.00	42.00	C	40.00	14	1954	do.	N	W	
3-1952-32	13	do.	4.00	40.00	C	40.00	14	1957	do.	N	W	
3-1952-33	13	do.	5.00	40.00	C	40.00	14	1957	do.	N	W	
3-1952-34	13	do.	15.00	85.00	C	60.00	12	1959	LIBBY MCNEILL	N	W	
3-1952-35	13	do.	15.00	250.00	C	205.00	16	1960	do.	J	W	
3-1952-36	13	do.	15.00	80.00	C	46.00	16	1967	do.	J	W	
3-1952-38	13	do.	17.36	607.00	C	496.00	10	1900	do.	N	W	FORMER USGS NETWORK WELL.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-1953-01	13 KALIHI	17.00	666.00	564.00	12	1915	STATE	-	Z SEALED DEC 1976.
3-1953-02	13 do.	8.00	100.00	100.00	4	1976	UH MARINE EXPED	Q W	
3-1958-01	10 PH-KOOLAU	5.00	-----	-----	12	1930	US NAVY	Z U	SALT MAKING/LOCATED 1982.
3-1959-01	10 PH-KOOLAU	15.00	30.00	20.00	6	1939	US NAVY	-	Z SEALED.
3-1959-02	10 do.	15.00	30.00	20.00	6	1939	do.	-	Z Do.
3-1959-03	10 do.	16.00	25.00	21.00	6	1940	do.	-	Z Do.
3-1959-04	10 do.	14.00	60.00	17.00	6	1941	do.	-	Z Do.
3-1959-05	10 do.	6.00	1110.00	1110.00	5	1966	HNU INST GEO	U O	MONITOR/USGS NETWORK WELL.
3-1959-06	10 do.	6.00	290.00	290.00	3	1966	do.	U O	
3-1959-07	10 do.	6.00	106.00	105.00	4	1972	NOAA	U O	
3-2000-01	10 PH-KOOLAU	25.00	30.00	-----	-----	1930	GAHU SGR CO.	I W	DUG WELL 21.
3-2000-02	10 do.	15.00	30.00	20.00	6	1939	US NAVY	-	Z SEALED.
3-2000-03	10 do.	20.00	50.00	50.00	12	1957	HAW MEAT CO.	I W	
3-2000-04	10 do.	20.00	55.00	50.00	12	1957	do.	I W	
3-2000-05	10 do.	20.00	63.00	51.00	12	1957	do.	I W	
3-2001-01	10 PH-KOOLAU	43.00	47.00	-----	-----	1931	GAHU SGR CO.	I W	DUG WELL 23.
3-2002-01Z	6 PH-KOOLAU	47.00	507.00	420.00	10	1891	GAHU SGR CO.	-	Z 3-2002-01 TO 08 (EP 9A TO 9E). SEALED OCT 1966 (EWA PUMP 9E).
3-2002-02Z	6 PH-KOOLAU	46.00	523.00	450.00	8	1891	GAHU SGR CO.	-	Z 3-2002-02 TO 04 (EWA PUMP 9B). SEALED SEPT 1946.
3-2002-03	6 do.	46.00	551.00	438.00	10	1899	do.	-	Z SEALED SEPT 1946 (EWA PUMP 9C).
3-2002-04	6 do.	46.00	550.00	447.00	12	1899	do.	-	Z SEALED SEPT 1946.
3-2002-05Z	6 PH-KOOLAU	46.00	522.00	450.00	10	1900	GAHU SGR CO.	-	Z 3-2002-05 TO 06 (EWA PUMP 9A). SEALED AUG 1946.
3-2002-06	6 do.	46.00	519.00	446.00	10	1900	do.	-	Z SEALED AUG 1946.
3-2002-07Z	6 PH-KOOLAU	46.00	498.00	-----	12	1908	GAHU SGR CO.	-	Z 3-2002-07 TO 08 (EWA PUMP 9D). SEALED NOV 1942.
3-2002-08	6 do.	46.00	497.00	464.00	12	1908	do.	-	Z SEALED NOV 1942.
3-2002-09	6 do.	48.00	103.00	63.00	12	1941	US NAVY	U U	
3-2002-10	6 do.	40.00	213.00	-----	12	1944	GAHU SGR CO.	N W	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY		ALT. (ft)	WELL		CASING		YEAR COMP	OWNER	U	S	REMARKS
		DEPTH (ft)	DIAM. (in.)		DEPTH (ft)	C	DEPTH (ft)	O					
3-2004-01	6	PH-WAIANA	89.00	147.00	C	102.00	C	1933	US ARMY		U		
3-2004-02	6	do.	174.00	200.00	C	167.00	C	1937	do.		U		
3-2004-03	6	do.	175.00	190.00	C	182.00	C	1941	US NAVY		U		
3-2004-04	6	do.	140.88	268.00	C	188.00	C	1981	CAMPBELL ESTATE		U	T	
3-2005-01	6	PH-WAIANA	125.00	144.00	C	140.00	C	1971	PAC CONC & GRV		-	Z	SEALED MAR 1977.
3-2006-01Z													3-2006-01 TO 11 (EP 10 TO 12).
3-2006-01	6	PH-WAIANA	41.00	-----	C	-----	C	1908	OAHU SGR CO.		I	W	3-2006-01 TO 03, 10 (EP 11).
3-2006-02	6	do.	41.00	-----	C	-----	C	1908	do.		I	W	
3-2006-03	6	do.	41.00	-----	C	-----	C	1908	do.		I	W	
3-2006-04Z													3-2006-04 TO 07 (EWA PUMP 10).
3-2006-04	6	PH-WAIANA	41.00	155.00	C	-----	C	1908	OAHU SGR CO.		I	W	
3-2006-05	6	do.	41.00	165.00	C	-----	C	1908	do.		I	W	
3-2006-06	6	do.	41.00	165.00	C	-----	C	1908	do.		I	W	
3-2006-07	6	do.	41.00	-----	C	-----	C	1908	do.		I	W	
3-2006-08Z													3-2006-08 TO 09, 11 (EP 12).
3-2006-08Z													3-2006-08 TO 09, 11 (EP 13).
3-2006-08	6	PH-WAIANA	41.00	-----	C	-----	C	1913	OAHU SGR CO.		I	W	
3-2006-09	6	do.	41.00	-----	C	-----	C	1913	do.		I	W	
3-2006-10	6	do.	41.00	160.00	C	60.00	C	1923	do.		I	W	
3-2006-11	6	do.	41.00	160.00	C	57.00	C	1923	do.		I	W	
3-2006-12	6	do.	138.00	150.00	C	108.00	C	1938	HONOLULU BWS		U	U	FORMER USGS OBS WELL.
3-2007-01	6	WAIANA-DIKE	80.00	100.00	C	85.00	C	1938	HONOLULU BWS		-	Z	SEALED JULY 1967/FORMER USGS OBS.
3-2047-03	13	KAIMUKI	549.00	74.00	C	-----	C	1968	HONOLULU BWS		U	T	TWO SEPARATE CASINGS 2 & 1 IN.
3-2047-04	13	do.	526.00	154.00	C	126.00	C	1968	do.		U	T	
3-2047-05	13	do.	528.00	537.00	C	138.00	C	1970	do.		U	O	EXPLORATORY WELL.
3-2052-01	13	KALHI	29.00	503.00	C	348.00	C	1883	W HILLS		-	Z	SEALED DEC 1932.
3-2052-02	13	do.	41.00	446.00	C	-----	C	1888	C & C HONO		-	Z	SEALED FEB 1927.
3-2052-03	13	do.	29.00	210.00	C	147.00	C	1894	CHINESE YMCA		-	Z	SEALED APR 1947.
3-2052-04	13	do.	28.00	346.00	C	-----	C	1895	BISHOP ESTATE		-	Z	SEALED APR 1927.
3-2052-05	13	do.	40.00	500.00	C	458.00	C	1905	E WINSTON		-	Z	SEALED DEC 1928.
3-2052-06	13	do.	43.00	351.00	C	232.00	C	1910	STATE		-	Z	SEALED NOV 1958/FORMER BWS OBS.
3-2052-07	13	do.	80.00	321.00	C	118.00	C	1927	BISHOP ESTATE		T	W	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	C					
3-2052-08	13	MOANALUA	160.00	.....	-	.....	.....	1937	HONOLULU BWS	P W	KALIHI SHAFT 6.
3-2052-09	13	do.	202.00	235.00	C	210.00	12	1942	US ARMY	U W		
3-2052-10	13	KALIHI	80.00	283.00	C	233.00	8	1959	HONOLULU BWS	U O	BWS OBS WELL.	
3-2052-11	13	do.	90.00	334.00	C	129.00	12	1977	BISHOP ESTATE	T W		
3-2052-12	13	do.	31.00	151.00	C	50.00	14	1981	HONOLULU BWS	P W		
3-2053-01	13	MOANALUA	12.00	331.00	C	.....	8	1883	C GULICK	- Z	SEALED JUNE 1929.
3-2053-02	13	do.	10.00	427.00	C	238.00	6	1885	STATE	- Z	SEALED APR 1959.	
3-2053-03	13	do.	27.00	645.00	C	340.00	6	1886	U YAMANE	- Z	SEALED JULY 1955.	
3-2053-04	13	do.	20.00	212.00	C	167.00	6	1889	US ARMY	- Z	SEALED DEC 1928.	
3-2053-05	13	do.	26.00	471.00	C	347.00	6	1894	HC & D CO.	N W	FORMER USGS OBS WELL.	
3-2053-06	13	do.	9.00	330.00	C	236.00	8	1895	STATE	- Z	SEALED APR 1959.	
3-2053-07	13	do.	39.00	248.00	C	.....	8	1898	US ARMY	- Z	SEALED OCT 1938.
3-2053-08	13	do.	7.00	670.00	C	.....	10	1903	STATE	U U	
3-2053-09	13	do.	22.00	635.00	C	448.00	8	1905	HAW MEAT CO.	N W		
3-2053-10	13	do.	20.00	279.00	C	169.00	12	1914	US ARMY	P W		
3-2053-11	13	do.	20.00	330.00	C	175.00	12	1960	do.	P W		
3-2053-12	13	do.	6.00	781.00	C	642.00	6	1967	GASPRO	J W		
3-2054-01	10	MOANALUA	19.00	824.00	C	692.00	10	1898	DAMON ESTATE	- Z	SEALED AUG 1942.	
3-2054-02	10	do.	6.00	677.00	C	616.00	6	1959	YOUNG LNDRY	- Z	SEALED NOV 1964.	
3-2054-03	10	do.	11.00	668.00	C	602.00	6	1965	do.	C W	USGS NETWORK WELL.	
3-2055-01	10	MOANALUA	20.00	795.00	C	517.00	6	1902	DAMON ESTATE	- Z	SEALED SEPT 1941.	
3-2055-02	10	do.	20.00	1125.00	C	671.00	12	1900	US AIR FORCE	- Z	SEALED AUG 1941.	
3-2056-01	10	MOANALUA	12.00	800.00	C	520.00	.....	1902	US AIR FORCE	- Z	SEALED JUNE 1937.
3-2056-02	10	do.	951.00	951.00	C	590.00	.....	1903	do.	- Z	SEALED JUNE 1937.
3-2056-03	10	do.	972.00	970.00	C	774.00	10	1903	do.	- Z	SEALED SEPT 1940.	
3-2057-01	10	MOANALUA	15.00	938.00	C	485.00	.....	1902	US AIR FORCE	- Z	LOST.
3-2057-02	10	do.	12.00	900.00	C	538.00	.....	1902	do.	- Z	SEALED MAY 1937.
3-2057-03	10	do.	15.00	1045.00	C	672.00	.....	1902	do.	- Z	LOCATED 1938/BURIED.
3-2057-04	10	do.	16.00	55.00	C	20.00	8	1948	do.	A W		
3-2059-01	10	PH-KOOLAU	15.00	972.00	C	796.00	VAR	1902	OAHU SGR CO.	- Z	SEALED OCT 1938/DIA. 12 TO 10 IN.	
3-2059-02	10	do.	15.00	30.00	C	20.00	6	1939	US NAVY	- Z	SEALED.	
3-2059-03	10	do.	15.00	25.00	C	21.00	6	1940	do.	- Z	do.	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C							
3-2059-04	10	PH-KOOLAU	15.00	25.00	C	20.00	6	1940	US NAVY	-	Z	SEALED.
3-2059-05	10	do.	15.00	28.00	C	21.00	6	1940	do.	-	Z	Do.
3-2059-06	10	do.	15.00	25.00	C	22.00	6	1940	do.	-	Z	Do.
3-2059-07	10	do.	15.00	29.00	C	22.00	6	1941	do.	-	Z	Do.
3-2059-08	10	do.	15.00	25.00	C	22.00	6	1941	do.	-	Z	Do.
3-2059-09	10	do.	15.00	30.00	C	22.00	6	1941	do.	-	Z	Do.
3-2059-10	10	do.	15.00	60.00	C	18.00	6	1941	do.	-	Z	Do.
3-2059-11	10	do.	15.00	60.00	C	21.00	6	1941	do.	-	Z	Do.
3-2100-01	10	PH-KOOLAU	16.00	362.00	C	275.00	2	1931	US NAVY	-	Z	LOST.
3-2100-02	10	do.	20.50	543.00	O	-----	10	1966	HMN INST GEO	U	O	MONITOR WELL.
3-2101-01	6	PH-KOOLAU	20.00	325.00	C	208.00	8	1899	CAMPBELL ESTATE	S	W	
3-2101-02	6	do.	25.00	-----	C	-----	10	1902	OAHU SGR CO.	-	Z	SEALED JUNE 1938.
3-2101-03	6	do.	15.38	329.00	C	165.00	6	1910	HAW MEAT CO.	U	O	USGS OBS/NETWORK WELL.
3-2101-04	6	do.	15.00	273.00	C	250.00	7	1879	C & C HONO	-	Z	SEALED JULY 1939.
3-2101-05Z												3-2101-05 TO 12 (EWA PUMP 1).
3-2101-05	6	PH-KOOLAU	30.00	456.00	C	320.00	10	1890	OAHU SGR CO.	-	Z	SEALED AUG 1952.
3-2101-06	6	do.	30.00	451.00	C	310.00	10	1890	do.	-	Z	SEALED JULY 1952.
3-2101-07	6	do.	30.00	468.00	C	302.00	10	1890	do.	-	Z	SEALED JULY 1952.
3-2101-08	6	do.	30.00	462.00	C	310.00	10	1890	do.	-	Z	SEALED AUG 1952.
3-2101-09	6	do.	31.00	448.00	C	448.00	VAR	1890	do.	U	U	CASING DIA. 10 TO 2 IN.
3-2101-10	6	do.	30.00	462.00	C	304.00	12	1899	do.	-	Z	SEALED AUG 1952.
3-2101-11	6	do.	30.00	450.00	C	316.00	12	1899	do.	-	Z	SEALED AUG 1952.
3-2101-12	6	do.	30.00	452.00	C	298.00	10	1901	do.	-	Z	SEALED AUG 1952.
3-2101-13	6	do.	3.00	225.00	C	131.00	2	1955	T MATSUDA	H	W	
3-2102-01	6	PH-KOOLAU	22.00	-----	C	-----	8	1880	OAHU SGR CO.	-	Z	SEALED DEC 1940.
3-2102-02Z												3-2102-02, 04 TO 22 (EP 3 & 4).
3-2102-02	6	PH-KOOLAU	44.00	332.00	C	-----	10	1890	OAHU SGR CO.	I	W	
3-2102-03	6	do.	60.00	-----	-	-----	-----	1891	do.	-	Z	FILLED.
3-2102-04	6	do.	44.00	326.00	C	-----	10	1891	do.	I	W	
3-2102-05	6	do.	44.00	369.00	C	-----	10	1891	do.	I	W	
3-2102-06	6	do.	44.00	407.00	C	208.00	10	1891	do.	I	W	
3-2102-07	6	do.	44.00	410.00	C	214.00	10	1891	do.	I	W	
3-2102-08	6	do.	44.00	410.00	C	-----	10	1891	do.	I	W	
3-2102-09	6	do.	44.00	410.00	C	-----	10	1891	do.	I	W	
3-2102-10	6	do.	44.00	413.00	C	-----	10	1891	do.	I	W	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	C					
3-2102-11Z	6	PH-KOOLAU	44.00	433.00	C	-----	10	1891	OAHU SGR CO.	I W	3-2102-11, 16 TO 22 (EP 4).	
3-2102-11	6	do.	44.00	432.00	C	-----	10	1891	do.	I W		
3-2102-12	6	do.	44.00	436.00	C	-----	10	1891	do.	I W		
3-2102-13	6	do.	44.00	430.00	C	-----	10	1891	do.	I W		
3-2102-14	6	do.	44.00	441.00	C	-----	10	1899	do.	I W		
3-2102-15	6	do.	44.00	441.00	C	218.00	12	1899	do.	I W		
3-2102-16	6	do.	44.00	435.00	C	223.00	12	1899	do.	I W		
3-2102-17	6	do.	44.00	441.00	C	223.00	12	1899	do.	I W		
3-2102-18	6	do.	44.00	443.00	C	223.00	12	1899	do.	I W		
3-2102-19	6	do.	44.00	416.00	C	212.00	12	1921	do.	I W		
3-2102-20	6	do.	44.00	419.00	C	222.00	12	1921	do.	I W		
3-2102-21	6	do.	44.00	425.00	C	217.00	12	1921	do.	I W		
3-2102-22	6	do.	44.00	420.00	C	240.00	12	1921	do.	I W		
3-2103-01	6	PH-WAIANA	210.00	206.00	C	17.00	6	1942	US NAVY	U O	USGS OBS/NETWORK WELL.	
3-2103-02	6	do.	140.00	137.00	C	9.00	6	1942	do.	U O	FORMER USGS OBS WELL.	
3-2103-03	6	do.	160.00	-----	-	-----	-----	1943	do.	P W	USGS NETWORK WELL/SHAFT 14.	
3-2104-01	6	PH-WAIANA	-----	175.00	C	160.00	12	1976	PAC CONC & ROCK	N W		
3-2107-01	6	WAIANA-E-DIKE	203.00	210.00	C	4.00	4	1955	E AU	U T		
3-2107-02	6	do.	22.00	204.00	0	-----	2	1956	HWN ELEC CO.	U T		
3-2107-03	6	do.	28.00	204.00	0	-----	2	1956	do.	U T		
3-2107-04	6	do.	62.00	127.00	0	-----	2	1956	do.	U T		
3-2107-05	6	do.	40.00	39.00	0	-----	2	1956	do.	U T		
3-2107-06	6	do.	58.00	125.00	C	94.00	8	1958	do.	E W		
3-2148-01Z	13	KOOLAU-DIKE	1027.00	-----	-	-----	-----	-----	HONOLULU BMS	P W	3-2148-01 TO 02. NUUANU TUNNEL 4.	
3-2148-01	13	BERETANIA	968.00	-----	-	-----	-----	-----	do.	P W	NUUANU TUNNEL 48.	
3-2149-01Z	13	BERETANIA	810.00	-----	-	-----	-----	-----	HONOLULU BMS	P W	3-2149-01 TO 02. NUUANU TUNNEL 3.	
3-2149-01	13	do.	915.00	-----	-	-----	-----	-----	do.	P W	NUUANU TUNNEL 3A.	
3-2153-01	13	MOANALUA	25.00	492.00	C	447.00	8	1888	PONOAINA DEV	- Z	SEALED OCT 1959.	
3-2153-02	13	do.	20.00	289.00	C	79.00	10	1889	DAMON ESTATE	I W	USGS OBS/NETWORK WELL.	
3-2153-03	13	do.	60.00	302.00	C	227.00	12	1906	US ARMY	- Z	SEALED JAN 1929.	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY		ALT. (ft)	WELL DEPTH (ft)		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
		WATER	BODY		DEPTH	C							
3-2153-04	13	MOANALUA		24.00	280.00	C	80.00	10	1909	HWN TEL	-	Z	SEALED APR 1969.
3-2153-05	13	do.		35.00	1246.00	C	1246.00	6	1912	HONOLULU BMS	U	O	MONITOR WELL.
3-2153-06	13	do.		18.00	282.00	C	143.00	12	1929	DAMON ESTATE	-	Z	SEALED JUNE 1969. 3-2153-07 TO 08.
3-2153-07Z	13	MOANALUA		28.00	302.00	C	52.00	16	1945	US ARMY TRIPLER	T	W	
3-2153-08	13	do.		28.00	306.00	C	57.00	16	1945	do.	T	W	
3-2153-09	13	do.		58.00	115.00	C	66.00	12	1945	HONOLULU BMS	U	O	BMS OBS WELL. 3-2153-10 TO 12.
3-2153-10Z	13	MOANALUA		36.00	300.00	C	150.00	16	1973	HONOLULU BMS	P	W	
3-2153-11	13	do.		35.00	300.00	C	150.00	16	1973	do.	P	W	
3-2153-12	13	do.		35.00	300.00	C	150.00	16	1974	do.	P	W	
3-2154-01	10	MOANALUA		27.00	294.00	C	103.00	10	1909	DAMON ESTATE	Z	W	FISH POND.
3-2155-01	10	MOANALUA		21.00	740.00	C	500.00	12	1908	OAHU SGR CO.	-	Z	SEALED FEB 1939.
3-2155-02	10	do.		22.00	800.00	C	431.00	12	1908	US NAVY	-	Z	SEALED DEC 1939.
3-2155-03	10	do.		23.00	930.00	C	486.00	12	1908	do.	-	Z	SEALED DEC 1939.
3-2155-04	10	do.		91.00	288.00	C	148.00	12	1941	US ARMY	-	Z	SEALED JULY 1977.
3-2155-05	10	do.		62.00	682.00	C	499.00	8	1948	AIEA DAIRY	-	Z	SEALED JUNE 1968.
3-2156-01	10	MOANALUA		25.00	608.00	C	520.00	12	1902	OAHU SGR CO.	-	Z	SEALED MAR 1939.
3-2156-02	10	do.		33.00	730.00	C	521.00	12	1908	do.	-	Z	SEALED MAR 1939.
3-2156-03	10	do.		10.00	623.00	C	475.00	12	1908	US NAVY	-	Z	SEALED DEC 1939.
3-2156-04	10	PH-KOOLAU		8.00	186.00	C	-----	6	1941	do.	U	U	
3-2157-01	10	MOANALUA		19.00	683.00	C	629.00	4	1902	US NAVY	-	Z	SEALED AUG 1955.
3-2157-02	10	do.		18.00	645.00	C	558.00	12	1902	do.	E	W	
3-2157-03Z	10	PH-KOOLAU		20.00	439.00	C	351.00	12	1900	US NAVY	-	Z	3-2157-03 AND 3-2257-03 TO 04.
3-2157-04	10	MOANALUA		87.00	192.00	C	40.00	3	1938	do.	Z	T	SEALED AUG 1941.
3-2158-01	10	PH-KOOLAU		15.00	106.00	C	-----	12	1930	US NAVY	U	U	CAPPED 1960.
3-2158-02	10	do.		14.00	629.00	C	513.00	12	1938	do.	-	Z	SEALED FEB 1960.
3-2200-01	9	PH-KOOLAU		20.00	-----	-	-----	-----	1930	US NAVY	-	Z	LOST.
3-2200-02	9	do.		20.00	-----	-	-----	-----	1930	do.	U	O	MODIFY FOR MONITORING.
3-2200-03	9	do.		11.00	347.00	C	347.00	2	1930	do.	U	O	CAPPED 1979/FORMER NETWORK WELL.
3-2200-04	10	do.		1.00	233.00	C	130.00	2	1928	do.	U	U	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-		ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
		WATER BODY			DEPTH (ft)	C	DEPTH (ft)						
3-2201-01	9	PH-KOOLAU		20.00	175.00	C	112.00	12	1930	M FOSTER	-	Z	SEALED NOV 1966.
3-2201-02	6	do.		17.00	356.00	C	77.00	10	1910	T TAKIGUCHI	H	W	3-2201-03 TO 04.
3-2201-03	5	PH-KOOLAU		40.00	230.00	C	50.00	10	1891	OAHU SGR CO.	I	W	
3-2201-04	5	do.		40.00	226.00	C	50.00	10	1891	do.	I	W	
3-2201-05Z	9	PH-KOOLAU		11.00	170.00	C	98.00	10	1892	B MAU & ASSOC.	-	Z	3-2201-05, 08 (EWA PUMP 25). SEALED JUNE 1961.
3-2201-06	9	do.		25.00	436.00	C	400.00	10	1893	ROBINSON ESTATE	-	Z	SEALED JUNE 1961.
3-2201-07	5	do.		40.00	282.00	C	62.00	12	1921	OAHU SGR CO.	I	W	SEALED JAN 1965.
3-2201-08	9	do.		12.00	148.00	C	62.00	12	1923	B MAU & ASSOC.	-	Z	SEALED JUNE 1961.
3-2201-09	5	do.		83.00	107.00	C	86.00	12	1945	HOMOLULU BMS	-	Z	SEALED AUG 1949/FORMER BMS OBS.
3-2201-10	5	do.		84.00	113.00	C	92.00	12	1949	do.	U	O	BMS OBS WELL.
3-2201-11	10	do.		4.00	175.00	C	114.00	2	1954	H ASATO	H	W	
3-2201-12	5	do.		32.00	145.00	C	64.00	8	1955	G CORA	-	Z	SEALED JULY 1966.
3-2201-13	10	do.		5.00	200.00	C	60.00	4	1959	D NAKATA	H	W	
3-2201-14	9	do.		18.25	185.00	C	114.00	8	1969	HARRIS RUG CLN	C	W	
3-2202-01	6	PH-KOOLAU		23.00	500.00	C	-----	10	1910	L AKANA	H	W	
3-2202-02	6	do.		16.00	395.00	C	96.00	8	1911	B DUMILAO	H	W	3-2202-03 TO 14 (EWA PUMPS 5 & 6).
3-2202-03Z													3-2202-03 TO 08 (EWA PUMP 5).
3-2202-03ZZ													
3-2202-03	6	PH-KOOLAU		50.00	304.00	C	70.00	12	1896	OAHU SGR CO.	I	W	
3-2202-04	6	do.		50.00	305.00	C	70.00	12	1896	do.	I	W	
3-2202-05	6	do.		50.00	310.00	C	70.00	12	1896	do.	I	W	
3-2202-06	6	do.		50.00	304.00	C	70.00	12	1896	do.	I	W	
3-2202-07	6	do.		50.00	306.00	C	70.00	12	1896	do.	I	W	
3-2202-08	6	do.		50.00	303.00	C	70.00	12	1896	do.	I	W	
3-2202-09Z													3-2202-09 TO 14 (EWA PUMP 6).
3-2202-09	6	PH-KOOLAU		50.00	312.00	C	70.00	12	1896	OAHU SGR CO.	I	W	
3-2202-10	6	do.		50.00	307.00	C	70.00	12	1897	do.	I	W	
3-2202-11	6	do.		50.00	306.00	C	70.00	12	1897	do.	I	W	
3-2202-12	6	do.		50.00	308.00	C	70.00	12	1897	do.	I	W	
3-2202-13	6	do.		50.00	308.00	C	70.00	12	1897	do.	I	W	
3-2202-14	6	do.		50.00	308.00	C	70.00	12	1897	do.	I	W	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C							
3-2202-15Z												3-2202-15 TO 20 (EWA PUMPS 7 & 8).
3-2202-15ZZ												3-2202-15 TO 20 (EWA PUMP 7).
3-2202-15ZZZ												3-2202-15 TO 20 (EWA PUMP 8).
3-2202-15	6	PH-KOOLAU	46.00	468.00	C	107.00	12	1899	OAHU SGR CO.	P	W	
3-2202-16	6	do.	46.00	476.00	C	116.00	12	1900	do.	P	W	
3-2202-17	6	do.	46.00	475.00	C	116.00	12	1900	do.	P	W	
3-2202-18	6	do.	46.00	475.00	C	116.00	12	1900	do.	P	W	
3-2202-19	6	do.	46.00	481.00	C	107.00	12	1900	do.	P	W	
3-2202-20	6	do.	46.00	475.00	C	108.00	12	1900	do.	P	W	
3-2202-21	5	do.	150.00	-----	-	-----	-----	1939	do.	I	W	SHAFT 3 (EWA PUMPS 15 & 16).
3-2202-22	6	do.	20.00	122.00	C	100.00	6	1945	C HOKAMA	H	W	
3-2203-01Z												3-2203-01 TO 06 (WAIPAHA PUMP 5).
3-2203-01	5	PH-WAIAWAE	284.00	213.00	C	-----	12	1902	OAHU SGR CO.	I	W	
3-2203-02	5	do.	284.00	158.00	C	-----	12	1902	do.	I	W	
3-2203-03	5	do.	284.00	263.00	C	-----	12	1902	do.	I	W	
3-2203-04	5	do.	284.00	233.00	C	-----	12	1902	do.	I	W	
3-2203-05	5	do.	284.00	246.00	C	-----	12	1902	do.	I	W	
3-2203-06	5	do.	284.00	197.00	C	-----	12	1902	do.	I	W	
3-2205-01	6	PH-WAIAWAE	840.00	-----	-	-----	-----	1929	DILLINGHAM RNCH	I	W	MAKAKILO TUNNEL.
3-2249-01Z												3-2249-01 TO 04.
3-2249-01	13	KALIHI	800.00	-----	-	-----	-----	-----	HONOLULU BWS	P	W	KALIHI TUNNEL 3.
3-2249-02	13	do.	810.00	-----	-	-----	-----	-----	do.	P	W	KALIHI TUNNEL 4.
3-2249-03	13	do.	835.00	-----	-	-----	-----	-----	do.	P	W	KALIHI TUNNEL 5.
3-2249-04	13	do.	835.00	-----	-	-----	-----	-----	do.	P	W	KALIHI TUNNEL 6.
3-2250-01	13	KALIHI	614.00	150.00	C	100.00	12	1964	HONOLULU BWS	P	W	
3-2253-01	12	MOANALUA	256.00	275.00	O	-----	6	1941	OAHU SGR CO.	U	T	
3-2253-02	13	do.	235.00	-----	-	-----	-----	-----	HONOLULU BWS	U	O	BWS OBS WELL.
3-2254-01	10	MOANALUA	200.00	-----	-	-----	-----	1942	US NAVY	P	W	RED HILL SHAFT 11.
3-2254-02	10	do.	158.00	164.00	O	-----	10	1945	do.	P	W	
3-2255-01	10	PH-KOOLAU	15.00	474.00	C	333.00	6	1902	US ARMY	-	Z	SEALED FEB 1944.
3-2255-02	10	do.	18.00	326.00	C	-----	-----	1902	OAHU SGR CO.	-	Z	SEALED MAY 1939.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	C CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-2255-03	10	PH-KOOLAU	20.00	-----	C	-----	6	1902 OAHU SGR CO.	-	Z SEALED.
3-2255-04	10	do.	23.00	234.00	C	86.00	8	1929 do.	-	Z SEALED FEB 1948.
3-2255-05	10	do.	31.00	395.00	C	366.00	6	1900 QUEENS MED CNTR	I W	
3-2255-06	10	do.	25.00	521.00	C	247.00	12	1900 OAHU SGR CO.	-	Z SEALED APR 1974.
3-2255-07Z										3-2255-07 TO 20, 29 TO 31 (AP 1).
3-2255-07	10	PH-KOOLAU	21.00	391.00	C	150.00	12	1900 OAHU SGR CO.	-	Z SEALED MAR 1972.
3-2255-08	10	do.	19.00	173.00	C	127.00	12	1900 do.	-	Z SEALED MAR 1972.
3-2255-09	10	do.	23.00	399.00	C	160.00	12	1900 do.	-	Z SEALED APR 1972.
3-2255-10	10	do.	25.00	500.00	C	-----	12	1900 do.	-	Z NOT FOUND.
3-2255-11	10	do.	25.00	500.00	C	-----	12	1900 do.	-	Z NOT FOUND.
3-2255-12	10	do.	19.00	205.00	C	155.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-13	10	do.	22.00	288.00	C	150.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-14	10	do.	20.00	236.00	C	134.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-15	10	do.	23.00	431.00	C	135.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-16	10	do.	22.00	422.00	C	132.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-17	10	do.	25.00	450.00	C	152.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-18	10	do.	26.00	457.00	C	157.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-19	10	do.	22.00	426.00	C	130.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-20	10	do.	21.00	421.00	C	120.00	12	1900 do.	-	Z SEALED MAY 1972.
3-2255-21Z										3-2255-21 TO 28 (AIEA PUMP 3).
3-2255-21	10	PH-KOOLAU	31.00	408.00	C	239.00	2	1900 STATE DONALD	U	O MONITOR WELL.
3-2255-22	10	do.	32.00	418.00	C	415.00	2	1900 do.	U	O MONITOR WELL.
3-2255-23	10	do.	23.00	404.00	C	118.00	12	1900 OAHU SGR CO.	-	Z SEALED APR 1972.
3-2255-24	10	do.	26.00	220.00	C	150.00	12	1900 do.	-	Z SEALED MAR 1972.
3-2255-25Z										3-2255-25 TO 28 (AIEA PUMP 3).
3-2255-25	10	PH-KOOLAU	23.00	388.00	C	96.00	12	1900 OAHU SGR CO.	-	Z SEALED MAY 1972.
3-2255-26	10	do.	33.00	382.00	C	366.00	2	1900 do.	U	O MONITOR WELL.
3-2255-27	10	do.	20.00	306.00	C	303.00	2	1900 do.	U	O MONITOR WELL.
3-2255-28	10	do.	22.00	128.00	C	103.00	12	1900 OAHU SGR CO.	-	Z SEALED MAY 1972.
3-2255-29	10	do.	26.00	440.00	C	149.00	12	1930 do.	-	Z SEALED MAY 1972.
3-2255-30	10	do.	20.00	427.00	C	195.00	12	1930 do.	-	Z SEALED MAY 1972.
3-2255-31	10	do.	20.00	423.00	C	190.00	12	1930 do.	-	Z SEALED MAY 1972.
3-2255-32	9	do.	95.00	-----	-	-----	-----	1937 US NAVY	P	W HALAMA SHAFT 5.
3-2255-33	9	do.	57.00	85.00	C	60.00	12	1954 HONOLULU BMS	U	O BMS OBS WELL.
3-2255-34	9	do.	120.00	121.00	C	-----	1	1955 C & H SUGAR	U	T
3-2255-35	9	PH-KOOLAU	119.00	244.00	C	151.00	16	1956 C & H SUGAR	N	W 3-2255-35 TO 36.
3-2255-36	9	do.	119.00	240.00	C	151.00	16	1956 do.	N	W USGS NETWORK WELL.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-2255-37Z	9	PH-KOOLAU	256.00	345.00	302.00	16	1961	HONOLULU BWS	P	W	3-2255-37 TO 39.
3-2255-37	9	do.	270.00	359.00	314.00	16	1961	do.	P	W	
3-2255-38	9	do.	258.00	399.00	296.00	16	1961	do.	P	W	
3-2256-01	10	do.	17.00	272.00	180.00	6	1908	OAHU SGR CO.	-	Z	SEALED JAN 1948.
3-2256-02	10	do.	19.00	-----	-----	10	1902	do.	-	Z	LOST.
3-2256-03	9	do.	10.00	275.00	-----	-----	1902	do.	-	Z	BURIED.
3-2256-04	9	do.	23.00	290.00	200.00	6	1889	US NAVY	-	Z	SEALED MAR 1960/FORMER USGS OBS. 3-2256-05 TO 09 (AIEA PUMP 5).
3-2256-05Z	9	PH-KOOLAU	38.00	349.00	87.00	12	1908	OAHU SGR CO.	-	Z	SEALED SEPT 1965.
3-2256-05	9	do.	38.00	338.00	93.00	12	1908	do.	-	Z	SEALED AUG 1965.
3-2256-06	9	do.	38.00	345.00	71.00	12	1908	do.	-	Z	SEALED AUG 1965.
3-2256-07	9	do.	38.00	359.00	98.00	12	1908	do.	-	Z	SEALED JAN 1966.
3-2256-08	9	do.	45.00	346.00	80.00	12	1908	do.	-	Z	SEALED JAN 1970.
3-2256-09	9	do.	9.90	173.00	143.00	12	1022	US NAVY	U	O	3-2256-10 TO 12.
3-2256-10Z	9	PH-KOOLAU	13.20	210.00	143.00	12	1923	do.	U	U	USGS OBS/NETWORK WELL.
3-2256-11	9	do.	9.20	182.00	139.00	12	1923	do.	U	O	USGS NETWORK WELL.
3-2256-12	9	do.	16.46	275.00	154.00	16	1943	do.	-	Z	SEALED AUG 1947.
3-2256-13	9	do.	21.00	507.00	421.00	12	1899	US NAVY	-	Z	3-2257-01 TO 02.
3-2257-01Z	10	PH-KOOLAU	21.00	474.00	422.00	12	1899	do.	-	Z	SEALED AUG 1952.
3-2257-01	10	do.	18.00	503.00	417.00	12	1900	do.	-	Z	SEALED AUG 1952.
3-2257-02	10	do.	18.00	484.00	433.00	12	1900	do.	-	Z	SEALED AUG 1952.
3-2257-03	10	do.	12.00	391.00	335.00	10	1905	do.	-	Z	SEALED APR 1952.
3-2257-04	10	do.	4.00	-----	-----	-----	-----	-----	-	Z	SEALED SEPT 1940.
3-2257-05	9	PH-KOOLAU	14.00	310.00	218.00	8	1910	US NAVY	-	Z	SEALED JUNE 1928.
3-2258-01	9	do.	12.00	264.00	186.00	10	1906	UNIT CHINESE TR	-	Z	SEALED APR 1954.
3-2258-02	9	do.	15.00	163.00	122.00	2	1920	US NAVY	-	Z	SEALED MAY 1954.
3-2258-03	9	do.	15.00	134.00	103.00	2	1921	do.	-	Z	3-2258-05 TO 06.
3-2258-04	9	PH-KOOLAU	14.00	89.00	78.00	2	1923	US NAVY	-	Z	SEALED APR 1954.
3-2258-05	9	do.	9.00	126.00	104.00	0.50	1928	do.	-	Z	SEALED MAY 1954.
3-2258-06	9	do.	3.00	148.00	134.00	2	1934	do.	-	Z	SEALED MAR 1965.
3-2258-07	9	do.	11.00	158.00	56.00	6	1939	do.	-	Z	SEALED APR 1954.
3-2258-08	9	do.	3.00	181.00	91.00	6	1940	HONOLULU BWS	-	Z	SEALED APR 1954.
3-2258-09	9	do.	12.00	167.00	128.00	6	1940	US NAVY	-	Z	SEALED MAR 1965.
3-2258-10	9	do.							-	Z	SEALED APR 1954.
3-2258-11	9	do.							-	Z	SEALED APR 1954.

Table 3. General information on the wells, shafts and tunnels in southern Oahu-- Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	C CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-2259-01	9	PH-KOOLAU	17.00	-----	-	-----	1910	US NAVY	-	Z LOST.
3-2259-02	9	do.	10.00	-----	C	-----	1910	do.	-	Z CAPPED 1959.
3-2259-03	9	do.	2.00	510.00	C	-----	1889	do.	-	Z LOST.
3-2300-01	9	PH-KOOLAU	14.00	423.00	C	177.00	1910	11 ESTATE	-	Z SEALED JULY 1947.
3-2300-02	9	do.	10.00	214.00	C	133.00	1930	do.	-	Z SEALED JULY 1947.
3-2300-03	9	do.	18.00	188.00	C	62.00	1938	GAHU SGR CO.	-	Z SEALED MAR 1955.
3-2300-04	9	do.	15.00	395.00	C	48.00	1910	do.	-	Z SEALED JULY 1955.
3-2300-05	9	do.	14.00	-----	-	-----	1930	KATO	H	W
3-2300-06	9	do.	12.00	241.00	C	170.00	1898	HONOLULU BMS	U	O
3-2300-07Z										USGS NETWORK WELL. 3-2300-07-09,12-14,16-17,21-23.
3-2300-07	9	PH-KOOLAU	60.00	-----	C	-----	1900	GAHU SGR CO.	I	W
3-2300-08	9	do.	60.00	-----	C	-----	1900	do.	N	W
3-2300-09	9	do.	60.00	-----	C	-----	1900	do.	N	W
3-2300-10	9	do.	13.00	224.00	C	214.00	1909	BISHOP ESTATE	U	U
3-2300-11	9	do.	18.00	202.00	C	56.00	1913	WATANABE	I	W
3-2300-12	9	do.	60.00	400.00	C	92.00	1917	GAHU SGR CO.	-	Z SEALED APR 1965.
3-2300-13	9	do.	60.00	400.00	C	102.00	1917	do.	-	Z SEALED APR 1965.
3-2300-14	9	do.	60.00	402.00	C	128.00	1917	do.	-	Z SEALED MAR 1965.
3-2300-15	9	do.	21.00	221.00	C	59.00	1921	do.	-	Z SEALED FEB 1955.
3-2300-16	9	do.	60.00	412.00	C	98.00	1924	do.	N	W
3-2300-17	9	do.	60.00	430.00	C	92.00	1924	do.	I	W
3-2300-18	9	do.	26.00	1090.00	C	38.00	1926	STATE DONALD	U	O
3-2300-19	9	do.	22.00	131.00	C	70.00	1956	ST JOSEPH CHURCH	T	W
3-2300-20	9	do.	13.00	204.00	C	56.00	1959	A WATANABE	I	W
3-2300-21	9	do.	64.00	320.00	C	101.00	1962	GAHU SGR CO.	N	W
3-2300-22	9	do.	64.00	364.00	C	101.00	1962	do.	N	W
3-2300-23	9	do.	64.00	378.00	C	102.00	1962	do.	N	W
3-2301-01Z										3-2301-01 TO 10 (WAIPIAHU PUMP 1).
3-2301-01	9	PH-KOOLAU	21.00	425.00	C	-----	1898	GAHU SGR CO.	U	U
3-2301-02	9	do.	30.00	-----	C	-----	1898	do.	U	U
3-2301-03	9	do.	30.00	400.00	C	-----	1898	do.	U	U
3-2301-04	9	do.	30.00	400.00	C	-----	1898	do.	U	U
3-2301-05	9	do.	30.00	410.00	C	-----	1898	do.	I	W
3-2301-06	9	do.	30.00	400.00	C	-----	1898	do.	U	U
3-2301-07	9	do.	29.00	400.00	C	-----	1898	do.	U	U
3-2301-08	9	do.	30.00	412.00	C	-----	1898	do.	U	U

Table 3. General information on the wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	WELL C O	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-2301-09Z	9	PH-KOOLAU	31.00	490.00	C	-----	12	1898	OAHU SGR CO.	U	O	3-2301-09 TO 10.
3-2301-09	9	do.	31.00	498.00	C	-----	12	1898	do.	I	W	USGS NETWORK WELL.
3-2301-10	9	PH-KOOLAU	42.00	500.00	C	-----	12	1901	OAHU SGR CO.	I	W	USGS NETWORK WELL.
3-2301-11Z	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	3-2301-11 TO 20 (MP 2 & 3).
3-2301-11	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-12	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-13	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-14	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-15	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-16	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-17	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-18	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-19	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-20	9	do.	42.00	500.00	C	-----	12	1901	do.	I	W	
3-2301-21Z	9	PH-KOOLAU	30.00	425.00	C	-----	12	1898	OAHU SGR CO.	I	W	3-2301-21 TO 32 (MP 2 & 3).
3-2301-21	9	do.	31.00	425.00	C	-----	12	1898	do.	I	W	3-2301-21 TO 26 (WAIPAHU PUMP 2).
3-2301-22	9	do.	33.00	400.00	C	-----	12	1898	do.	I	W	
3-2301-23	9	do.	30.00	410.00	C	-----	12	1898	do.	I	W	
3-2301-24	9	do.	31.00	-----	C	-----	12	1898	do.	I	W	
3-2301-25	9	do.	30.00	410.00	C	-----	12	1898	do.	I	W	
3-2301-26	9	do.	30.00	410.00	C	-----	12	1898	do.	I	W	
3-2301-27Z	9	PH-KOOLAU	30.00	400.00	C	-----	12	1904	OAHU SGR CO.	I	W	3-2301-27 TO 32 (WAIPAHU PUMP 3).
3-2301-27	9	do.	30.00	400.00	C	-----	12	1904	do.	I	W	
3-2301-28	9	do.	30.00	410.00	C	-----	12	1904	do.	I	W	
3-2301-29	9	do.	30.00	420.00	C	-----	12	1904	do.	I	W	
3-2301-30	9	do.	30.00	429.00	C	-----	12	1904	do.	I	W	
3-2301-31	9	do.	30.00	439.00	C	-----	12	1904	do.	I	W	
3-2301-32	9	do.	16.00	232.00	C	53.00	10	1910	do.	-	Z	SEALED APR. 1965.
3-2301-33	9	do.	131.00	194.00	C	154.00	16	1959	HONOLULU BWS	P	W	3-2301-34 TO 37.
3-2301-34Z	5	PH-KOOLAU	133.00	196.00	C	155.00	16	1959	do.	P	W	
3-2301-34	5	do.	131.00	198.00	C	155.00	16	1959	do.	P	W	
3-2301-35	5	do.	130.00	191.00	C	156.00	16	1959	do.	P	W	
3-2301-36	5	do.	126.00	276.00	C	176.00	16	1974	do.	P	W	
3-2301-37	5	do.	123.00	273.00	C	173.00	16	1974	do.	P	W	
3-2301-38	5	do.										
3-2301-39	5	do.										

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	C CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS	
3-2302-01Z	5	PH-KOOLAU	201.70	350.00	C	221.00	16	1957	HONOLULU BWS	P W	3-2301-01 TO 02.
3-2302-02	5	do.	201.73	338.00	C	221.00	16	1957	do.	P W	
3-2302-03	5	do.	206.00	427.00	C	246.00	16	1972	do.	P W	
3-2302-04	5	do.	201.38	391.00	C	241.00	16	1972	do.	P W	
3-2354-01	9	PH-KOOLAU	165.00	-----	-	-----	-----	1944	HONOLULU BWS	P W	HALAWA SHAFT 12.
3-2355-01	9	PH-KOOLAU	218.00	218.00	C	218.00	1	1938	OAHU SGR CO.	U U	FORMER BWS OBS WELL.
3-2355-02	9	do.	195.00	-----	-	-----	-----	1945	do.	- Z	SEALED JAN 1975/SHAFT 13.
3-2355-03Z											3-2355-03, 05.
3-2355-03	9	PH-KOOLAU	304.00	342.00	C	288.00	14	1947	HONOLULU BWS	P W	
3-2355-04	9	do.	304.00	289.00	O	-----	18	1947	do.	- Z	SEALED SEPT 1947.
3-2355-05	9	do.	304.00	340.00	C	286.00	14	1947	do.	P W	3-2355-06 TO 07.
3-2355-06Z											
3-2355-06	9	PH-KOOLAU	258.00	360.00	C	290.00	14	1955	HONOLULU BWS	P W	
3-2355-07	9	do.	258.00	358.00	C	288.00	14	1955	do.	P W	
3-2355-08	9	do.	158.00	390.00	C	202.00	12	1963	do.	U T	3-2355-09 TO 14.
3-2355-09Z											
3-2355-09	9	PH-KOOLAU	159.00	413.00	C	220.00	18	1965	HONOLULU BWS	P W	
3-2355-10	9	do.	159.00	413.00	C	222.00	18	1965	do.	P W	
3-2355-11	9	do.	159.00	413.00	C	219.00	18	1965	do.	P W	
3-2355-12	9	do.	159.00	413.00	C	221.00	18	1965	do.	P W	
3-2355-13	9	do.	159.00	413.00	C	227.00	18	1969	do.	P W	
3-2355-14	9	do.	159.00	413.00	C	230.00	18	1969	do.	P W	
3-2356-01	9	PH-KOOLAU	20.00	-----	C	-----	-----	-----	OAHU SGR CO.	- Z	LOST.
3-2356-02	9	do.	23.00	399.00	C	69.00	10	1902	YOU & SHIMIZU	- Z	SEALED NOV 1959/FORMER USGS OBS.
3-2356-03	9	do.	18.00	356.00	C	347.00	0.75	1910	H NAKATA	- Z	FILLED.
3-2356-04	9	do.	18.00	100.00	O	-----	-----	1942	US NAVY	U T	
3-2356-05	9	do.	6.00	62.00	O	-----	-----	1942	do.	U T	
3-2356-06	9	do.	6.00	65.00	O	-----	-----	1942	do.	U T	
3-2356-07	9	do.	6.00	73.00	O	-----	-----	1942	do.	U T	
3-2356-08	9	do.	6.00	79.00	O	-----	-----	1942	do.	U T	
3-2356-09	9	do.	6.00	75.00	O	-----	-----	1942	do.	U T	
3-2356-10	9	do.	6.00	55.00	O	-----	-----	1942	do.	U T	
3-2356-11	9	do.	6.00	70.00	O	-----	-----	1942	do.	U T	
3-2356-12	9	do.	8.00	65.00	O	-----	-----	1942	do.	U T	
3-2356-13	9	do.	24.00	257.00	C	79.00	6	1895	YOU & SHIMIZU	- Z	SEALED JAN 1958.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-		ALT. (ft)	WELL		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
		WATER BODY	DEPTH (ft)		C	O							
3-2356-14Z	9	PH-KOOLAU	1010.00	40.00	240.00	C	12	1899	OAHU SGR CO.	-	Z	3-2356-14 TO 33 (AIEA PUMP 2).	
3-2356-14ZZ	9	do.	861.00	40.00	208.00	C	12	1899	do.	-	Z	3-2356-14 TO 26 (AIEA PUMP 2).	
3-2356-14	9	do.	40.00	40.00	172.00	C	12	1899	do.	-	Z	SEALED MAY 1974.	
3-2356-15	9	do.	40.00	40.00	172.00	C	12	1899	do.	-	Z	SEALED MAY 1974.	
3-2356-16	9	do.	41.00	421.00	173.00	C	12	1899	COMM PLAN INC.	-	Z	SEALED MAY 1974.	
3-2356-17	9	do.	42.00	528.00	172.00	C	12	1899	do.	-	Z	SEALED AUG 1974.	
3-2356-18	9	do.	46.00	550.00	12	C	12	1899	OAHU SGR CO.	-	Z	SEALED AUG 1974.	
3-2356-19	9	do.	46.00	550.00	12	C	12	1899	do.	I	W		
3-2356-20	9	do.	46.00	550.00	12	C	12	1899	do.	I	W		
3-2356-21	9	do.	46.00	550.00	12	C	12	1899	do.	I	W		
3-2356-22	9	do.	46.00	550.00	12	C	12	1899	do.	I	W		
3-2356-23	9	do.	46.00	550.00	12	C	12	1899	do.	I	W		
3-2356-24	9	do.	46.00	550.00	12	C	12	1899	do.	I	W		
3-2356-25	9	do.	46.00	550.00	12	C	12	1899	do.	I	W		
3-2356-26	9	do.	46.00	550.00	12	C	12	1899	do.	I	W		
3-2356-27Z	9	PH-KOOLAU	550.00	46.00	12	C	12	1899	OAHU SGR CO.	I	W	3-2356-27 TO 33 (AIEA PUMP 2).	
3-2356-27	9	do.	550.00	46.00	12	C	12	1899	do.	I	W		
3-2356-28	9	do.	550.00	46.00	12	C	12	1899	do.	I	W		
3-2356-29	9	do.	550.00	46.00	12	C	12	1899	do.	I	W		
3-2356-30	9	do.	550.00	46.00	12	C	12	1899	do.	I	W		
3-2356-31	9	do.	550.00	46.00	12	C	12	1899	do.	I	W		
3-2356-32	9	do.	550.00	46.00	12	C	12	1899	do.	I	W		
3-2356-33	9	do.	550.00	46.00	12	C	12	1899	do.	I	W		
3-2356-34Z	9	PH-KOOLAU	955.00	56.00	200.00	C	12	1904	OAHU SGR CO.	I	W	3-2356-34 TO 42 (AIEA PUMP 4).	
3-2356-34	9	do.	-----	56.00	-----	C	12	1904	do.	U	U		
3-2356-35	9	do.	-----	56.00	-----	C	12	1904	do.	I	W		
3-2356-36	9	do.	-----	56.00	-----	C	12	1904	do.	I	W		
3-2356-37	9	do.	707.00	56.00	206.00	C	12	1904	do.	I	W		
3-2356-38	9	do.	405.00	56.00	58.00	C	12	1904	do.	I	W		
3-2356-39	9	do.	503.00	56.00	88.00	C	12	1904	do.	I	W		
3-2356-40	9	do.	510.00	56.00	130.00	C	12	1904	do.	I	W		
3-2356-41	9	do.	504.00	56.00	76.00	C	12	1904	do.	I	W		
3-2356-42	9	do.	484.00	56.00	40.00	C	12	1904	do.	I	W		
3-2356-43	9	do.	100.00	81.00	-----	C	12	1941	W RIDLEY	-	Z	FILLED JAN 1941/CROOKED HOLE.	
3-2356-44	9	do.	100.00	81.00	34.00	C	8	1941	do.	-	Z	SEALED JULY 1959.	
3-2356-45	9	do.	177.00	25.00	42.00	C	12	1945	HONOLULU BWS	-	Z	SEALED OCT 1959/FORMER BWS OBS.	
3-2356-46	9	do.	61.00	33.00	-----	C	1	1948	US NAVY	U	O		
3-2356-47	9	do.	73.00	42.00	-----	C	1	1948	do.	-	Z	SEALED MAR 1971.	
3-2356-48	9	do.	51.00	21.00	-----	C	1	1948	do.	-	Z	SEALED FEB 1971.	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	C					
3-2356-49Z	9	PH-KOOLAU	102.00	327.00	C	129.00	C	12	1954	HONOLULU BUS	P U	3-2356-49 TO 50.
3-2356-50	9	do.	102.00	327.00	C	127.00	C	12	1955	do.	P U	
3-2356-51	9	do.	5.00	1308.00	C	91.00	C	6	1958	USGS	U U	FORMER USGS OBS WELL.
3-2356-52	9	do.	73.00	155.00	C	85.00	C	16	1959	HONOLULU BUS	- Z	SEALED DEC 1969.
3-2356-53	9	do.	26.00	250.00	C	75.00	C	6	1959	do.	- Z	SEALED MAR 1971/FORMER BUS OBS.
3-2356-54	9	do.	374.00	552.00	C	395.00	C	12	1966	F I I BROWN	I W	
3-2356-55Z	9	PH-KOOLAU	252.00	542.00	C	288.00	C	16	1966	HONOLULU BUS	P W	3-2356-55 TO 56.
3-2356-56	9	do.	254.00	549.00	C	296.00	C	16	1966	do.	P W	
3-2356-57	9	do.	22.00	250.00	C	77.00	C	10	1971	do.	U O	
3-2356-58Z	9	PH-KOOLAU	146.70	340.00	C	190.00	C	16	1973	HONOLULU BUS	P W	3-2356-58 TO 59.
3-2356-59	9	do.	146.50	345.00	C	197.00	C	16	1973	do.	P W	
3-2356-60Z	9	PH-KOOLAU	23.00	240.00	C	100.00	C	16	1975	HONOLULU BUS	P W	3-2356-60, 63 TO 64.
3-2356-61Z	9	PH-KOOLAU	111.60	334.00	C	190.00	C	16	1975	HONOLULU BUS	P W	3-2356-61 TO 62, 65.
3-2356-62	9	do.	117.00	340.00	C	200.00	C	16	1975	do.	P W	
3-2356-63	9	do.	26.00	240.00	C	100.00	C	16	1975	do.	P W	
3-2356-64	9	do.	19.00	240.00	C	162.00	C	16	1975	do.	P W	
3-2356-65	9	do.	112.00	335.00	C	195.00	C	16	1975	do.	P W	
3-2357-01	9	PH-KOOLAU	8.00	90.00	O	-----	-----	-----	1942	US NAVY	U T	
3-2357-02	9	do.	20.00	194.00	C	54.00	C	8	1910	HMN ELEC CO.	- Z	SEALED JULY 1947.
3-2357-03	9	do.	25.00	314.00	C	48.00	C	10	1887	WAIMALU DEV	- Z	SEALED NOV 1957.
3-2357-04	9	do.	25.00	425.00	C	23.00	C	10	1900	C OKUDA	U U	
3-2357-05Z	9	PH-KOOLAU	7.00	65.00	C	15.00	C	4	1932	HMN ELEC CO.	- Z	3-2357-05, 09 TO 18. BURIED.
3-2357-06	9	do.	12.00	236.00	C	92.00	C	6	1934	OAHU SGR CO.	- Z	SEALED APR 1949.
3-2357-07	9	do.	22.00	212.00	C	124.00	C	6	1938	K CHUN	H W	
3-2357-08	9	do.	22.00	72.00	C	20.00	C	6	1938	M LEE	H W	
3-2357-09	9	do.	10.00	61.00	C	26.00	C	12	1938	HMN ELEC CO.	U U	
3-2357-10	9	do.	15.00	101.00	C	36.00	C	20	1938	do.	E W	
3-2357-11	9	do.	32.00	107.00	C	48.00	C	20	1938	do.	E W	
3-2357-12	9	do.	36.00	83.00	C	48.00	C	20	1938	do.	E W	
3-2357-13	9	do.	3.00	-----	-	-----	-	-----	1939	do.	I W	
3-2357-14	9	do.	6.00	90.00	C	56.00	C	8	1940	do.	U U	WAIKU SHAFT 8.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C							
3-2357-15	9	PH-KOOLAU	6.00	28.00	C	9.00	6	1940	HWN ELEC CO.	U	U	
3-2357-16	9	do.	25.00	198.00	C	95.00	16	1940	do.	-	Z	SEALED JUNE 1949.
3-2357-17	9	do.	23.00	111.00	C	55.00	20	1940	do.	-	Z	FILLED.
3-2357-18	9	do.	25.00	108.00	C	48.00	20	1940	do.	E	W	
3-2357-19	9	do.	9.00	444.00	C	96.00	6	1950	J INAFUKU	-	Z	SEALED DEC 1973.
3-2357-20	9	do.	15.00	384.00	C	83.00	5	1956	C HO	-	Z	SEALED NOV 1969.
3-2357-21	9	do.	14.00	170.00	C	70.00	8	1963	W SUYETANI	I	W	USGS NETWORK WELL.
3-2357-22	9	do.	7.00	200.00	C	137.00	12	1965	J SCHLITZ BREW	-	Z	SEALED MAR 1972.
3-2357-23Z												3-2357-23 TO 24.
3-2357-23	9	PH-KOOLAU	49.00	230.00	C	90.00	16	1974	HONOLULU BWS	P	W	
3-2357-24	9	do.	45.60	266.00	C	126.00	16	1975	do.	P	W	
3-2358-01	9	PH-KOOLAU	15.00	91.00	C	-----	10	1910	US NAVY	I	W	
3-2358-02	9	do.	9.00	337.00	C	58.00	12	1910	do.	I	W	USGS NETWORK WELL.
3-2358-03Z												3-2358-03, 07, 13.
3-2358-03	9	PH-KOOLAU	28.00	174.00	C	53.00	10	-----	HONOLULU BWS	-	Z	SEALED DEC 1941.
3-2358-04Z												3-2358-04, 11.
3-2358-04	9	PH-KOOLAU	5.00	112.00	C	95.00	7	1924	US NAVY	-	Z	SEALED JAN 1951.
3-2358-05	9	do.	6.00	230.00	C	-----	-----	1912	G CANAVARO	-	Z	SEALED JULY 1924.
3-2358-06	9	do.	17.00	137.00	C	67.00	12	1897	US NAVY	-	Z	SEALED JULY 1948.
3-2358-07	9	do.	28.00	197.00	C	-----	12	1905	HONOLULU BWS	-	Z	SEALED DEC 1925.
3-2358-08	9	do.	7.78	122.00	C	57.00	8	1906	BISHOP ESTATE	I	W	
3-2358-09	9	do.	13.00	428.00	C	104.00	4	1907	US NAVY	-	Z	SEALED APR 1954.
3-2358-10	9	do.	10.00	185.00	C	100.00	10	1916	do.	-	Z	SEALED JULY 1948.
3-2358-11	9	do.	5.00	97.00	C	77.00	2	1922	do.	-	Z	SEALED JAN 1951.
3-2358-12	9	do.	11.00	124.00	C	-----	2	1922	C & C HONO	-	Z	SEALED DEC 1941.
3-2358-13	9	do.	30.00	140.00	C	54.00	12	1926	HONOLULU BWS	-	Z	SEALED OCT 1969.
3-2358-14Z												3-2358-14 TO 17.
3-2358-14	9	PH-KOOLAU	15.00	175.00	C	-----	12	1926	UH CLG TROP AG	I	W	
3-2358-15	9	do.	15.00	180.00	C	100.00	12	1926	do.	U	U	
3-2358-16	9	do.	15.00	176.00	C	53.00	12	1926	do.	U	U	
3-2358-17	9	do.	15.00	176.00	C	63.00	12	1926	do.	U	U	
3-2358-18	9	do.	12.00	159.00	C	50.00	6	1939	US NAVY	-	Z	
3-2358-19	9	do.	9.68	167.00	C	112.00	17	1944	do.	F	W	SEALED APR 1954.
3-2358-20	9	do.	47.00	71.00	C	60.00	12	1946	HONOLULU BWS	U	O	USGS NETWORK WELL.
3-2358-21	9	do.	9.00	120.00	C	75.00	8	1948	S SHIMABUKURO	I	W	BWS OBS WELL.
3-2358-22	9	do.	8.97	169.00	C	76.00	8	1948	do.	I	W	
3-2358-23	9	do.	12.00	150.00	C	83.00	8	1949	C NAKAMA	H	W	USGS NETWORK WELL.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND -		ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
		WATER BODY			DEPTH (ft)	C	DEPTH (ft)						
3-2358-24	9	PH-KOOLAU		23.00	120.00	C	67.00		8	1949	S TABA	H W	
3-2358-25	9	do.		13.00	150.00	C	61.00		8	1951	C NAKAMA	I W	
3-2358-26	9	do.		8.00	150.00	C	80.00		8	1952	C MATSUKAWA	I W	
3-2358-27	9	do.		8.00	100.00	C	47.00		8	1953	T MIYAHARA	I W	
3-2358-28	9	do.		15.00	118.00	C	37.00		8	1953	K KOSHIMITSU	I W	
3-2358-29	9	do.		11.99	179.00	C	50.00		8	1953	S SHIMABUKURO	I W	USGS NETWORK WELL.
3-2358-30	9	do.		11.00	103.00	C	31.00		2	1953	E SAKAMOTO	H W	
3-2358-31	9	do.		8.00	116.00	C	51.00		2	1953	K SHIMABUKURO	S W	
3-2358-32	9	do.		5.00	132.00	C	78.00		2	1954	S SHIMABUKURO	I W	
3-2358-33	9	do.		6.00	136.00	C	84.00		2	1954	do.	I W	
3-2358-34	9	do.		6.00	156.00	C	103.00		10	1954	do.	I W	
3-2358-35	9	do.		12.00	102.00	C	54.00		2	1954	U WATANABE	H W	
3-2358-36	9	do.		13.00	102.00	C	52.00		2	1954	G SAKAI	H W	
3-2358-37	9	do.		13.00	98.00	C	30.00		8	1955	S AKAMINE	I W	
3-2358-38	9	do.		12.00	100.00	C	50.00		8	1955	G GORA	H W	
3-2358-39	9	do.		10.00	120.00	C	34.00		8	1957	J KOIZUMI	- Z	SEALED JUNE 1969.
3-2358-40	9	do.		18.00	119.00	C	62.00		4	1957	W NAKAMA	H W	
3-2358-41	9	do.		3.00	166.00	C	90.00		8	1957	I OKANO	I W	
3-2358-42	9	do.		10.00	110.00	C	62.00		8	1958	J KOIZUMI	I W	
3-2358-43	9	do.		25.00	30.00	C	25.00		2	1959	K YOUNG	H W	
3-2358-44	9	do.		13.00	165.00	C	37.00		8	1962	S NAKAMA	I W	
3-2358-45	9	do.		38.00	101.00	C	71.00		4	1967	E HAMILTON	H W	
3-2358-46	9	do.		45.00	176.00	C	30.00		6	1967	K SAKAI	H W	
3-2358-47	9	do.		35.00	141.00	C	96.00		4	1967	D ALPILO	H W	
3-2358-48	9	do.		5.00	195.00	C	123.00		8	1969	J KOIZUMI	U W	
3-2358-49	9	do.		10.00	125.00	C	76.00		4	1976	TRINITY CHURCH	H W	
3-2359-01	9	PH-KOOLAU		30.00	339.00	C	144.00		8	1899	US NAVY	U U	
3-2359-02	9	do.		86.00	79.00	C	70.00		3	1930	J BENTO	- Z	FILLED.
3-2359-03	9	do.		97.00	154.00	C	100.00		8	1943	US NAVY	- Z	SEALED APR 1953.
3-2359-04	9	do.		11.00	105.00	C	54.00		4	1953	S TABA	I W	
3-2359-05	9	do.		13.00	150.00	C	57.00		8	1953	S OSHITA	I W	USGS NETWORK WELL.
3-2359-06	9	do.		6.00	131.00	C	45.00		4	1953	S SASAKI	I W	
3-2359-07	9	do.		11.00	140.00	C	63.00		2	1953	F ASATO	H W	
3-2359-08	9	do.		6.00	96.00	C	57.00		2	1953	C MASAKI	I W	
3-2359-09	9	do.		8.00	102.00	C	74.00		2	1953	KOSHIMITSU	H W	
3-2359-10	9	do.		23.00	100.00	C	43.00		4	1954	G GORA	H W	
3-2359-11	9	do.		30.00	130.00	C	37.00		2	1954	K KOBASHIGAWA	H W	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND- WATER BODY		ALT. (ft)	WELL DEPTH (ft)		C	CASING DEPTH (ft)		DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
		PH	KOOLAU		DEPTH	O		DEPTH	O						
3-2359-12	9	PH	KOOLAU	25.00	276.00	C	C	140.00	8	1954	G BROWN	H	W		
3-2359-13	9	do.		8.00	130.00	C	C	50.00	2	1955	I NISHIDA	H	W		
3-2359-14	9	do.		8.00	171.00	C	C	52.00	10	1956	C MASAKI	I	W		
3-2359-15	9	do.		9.00	191.00	C	C	38.00	8	1958	S SASAKI	I	W		
3-2359-16	9	do.		10.00	162.00	C	C	64.00	8	1958	F ASATO	I	W		
3-2359-17	9	do.		11.00	175.00	C	C	60.00	8	1958	S OSHITA	I	W		
3-2359-18	9	do.		24.00	126.00	C	C	67.00	2.50	1959	E JIMINEZ	H	W		
3-2400-01Z															3-2400-01 TO 04.
3-2400-01	9	PH	KOOLAU	200.00	355.00	C	C	231.00	16	1954	HONOLULU BMS	P	W		
3-2400-02	9	do.		200.00	355.00	C	C	231.00	16	1954	do.	P	W		
3-2400-03	9	do.		200.00	386.00	C	C	254.00	16	1969	do.	P	W		
3-2400-04	9	do.		200.00	386.00	C	C	254.00	16	1969	do.	P	W		
3-2400-05	9	do.		207.30	342.00	C	C	241.00	12	1983	AMFAC PROP DEV	U	U		
3-2400-06	9	do.		211.00	344.00	C	C	240.00	12	1983	do.	U	U		
3-2401-01	9	PH	KOOLAU	96.00	301.00	C	C	168.00	8	1946	US NAVY	U	U		
3-2402-01Z															3-2402-01 TO 02.
3-2402-01	5	PH	KOOLAU	430.00	575.00	C	C	460.00	16	1969	HONOLULU BMS	P	W		
3-2402-02	5	do.		430.00	575.00	C	C	465.00	16	1969	do.	P	W		
3-2455-01	9	PH	KOOLAU	168.00	321.00	C	C	180.00	16	1955	HONOLULU BMS	U	O		BMS OBS WELL.
3-2455-02	9	do.		128.00	206.00	C	C	140.00	4	1958	K MINAMI	H	W		
3-2455-03	9	do.		100.00	220.00	C	C	180.00	7	1964	do.	S	W		
3-2456-01Z															3-2456-01 TO 03.
3-2456-01	9	PH	KOOLAU	263.00	508.00	C	C	307.00	16	1971	HONOLULU BMS	P	W		
3-2456-02	9	do.		263.00	508.00	C	C	307.00	16	1972	do.	P	W		
3-2456-03	9	do.		263.00	508.00	C	C	307.00	16	1971	do.	P	W		
3-2456-04	9	do.		445.00	565.00	C	C	469.00	12	1974	OCEANVIEW VENT	-	Z		SEALED JAN 1978.
3-2457-01Z															3-2457-01 TO 03.
3-2457-01	9	PH	KOOLAU	267.00	398.00	C	C	281.00	16	1957	HONOLULU BMS	P	W		
3-2457-02	9	do.		267.00	415.00	C	C	281.00	16	1957	do.	P	W		
3-2457-03	9	do.		270.00	425.00	C	C	308.00	16	1961	do.	P	W		
3-2457-04	9	do.		152.00	1445.00	C	C	183.00	12	1968	do.	U	T		

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-2457-05Z	9	PH-KOOLAU	144.00	444.00	304.00	16	1970	HONOLULU BMS	P W	3-2457-05 TO 06, 09 TO 12.
3-2457-06	9	do.	150.00	458.00	312.00	16	1970	do.	P W	
3-2457-07	9	do.	150.00	455.00	312.00	16	1970	do.	- Z	SEALED DEC 1970.
3-2457-08	9	do.	150.00	338.00	-----	10	1970	do.	- Z	SEALED NOV 1970.
3-2457-09	9	do.	153.00	461.00	312.00	16	1970	do.	P W	
3-2457-10	9	do.	146.00	368.00	217.00	16	1970	do.	P W	
3-2457-11	9	do.	141.00	363.00	211.00	16	1970	do.	P W	
3-2457-12	9	do.	140.00	367.00	210.00	16	1970	do.	P W	
3-2457-13Z	9	PH-KOOLAU	263.00	503.00	303.00	16	1971	HONOLULU BMS	P W	3-2457-13 TO 15.
3-2457-13	9	do.	263.00	503.00	303.00	16	1971	do.	P W	
3-2457-14	9	do.	263.00	503.00	303.00	16	1971	do.	P W	
3-2457-15	9	do.	263.00	503.00	303.00	16	1971	do.	P W	
3-2458-01	9	PH-KOOLAU	111.00	-----	-----	-----	1940	HONOLULU BMS	P W	MANANA SHAFT 9.
3-2458-02	9	do.	117.30	154.00	-----	-----	1952	O R & L CO.	U T	
3-2458-03Z	9	PH-KOOLAU	120.00	150.00	56.00	14	1953	HONOLULU BMS	P W	3-2458-03 TO 04.
3-2458-03	9	do.	120.00	140.00	58.00	14	1953	do.	P W	
3-2458-04	9	do.	120.00	140.00	58.00	14	1953	do.	P W	
3-2459-01Z	9	PH-KOOLAU	40.00	704.00	-----	12	1898	OAHU SGR CO.	I W	3-2459-01 TO 14 (WP 6A & 6B).
3-2459-01	9	do.	40.00	582.00	-----	12	1898	do.	I W	3-2459-01 TO 05 (WAIPIAHU PUMP 6A).
3-2459-02	9	do.	40.00	739.00	-----	12	1898	do.	I W	
3-2459-03	9	do.	40.00	706.00	-----	12	1898	do.	I W	
3-2459-04	9	do.	40.00	600.00	-----	12	1898	do.	I W	
3-2459-05	9	do.	40.00	-----	-----	12	1906	OAHU SGR CO.	I W	3-2459-06 TO 14 (WAIPIAHU PUMP 6B).
3-2459-06Z	9	PH-KOOLAU	40.00	700.00	-----	12	1906	do.	I W	
3-2459-06	9	do.	40.00	590.00	-----	12	1906	do.	I W	
3-2459-07	9	do.	40.00	577.00	-----	12	1906	do.	I W	
3-2459-08	9	do.	40.00	707.00	-----	12	1906	do.	I W	
3-2459-09	9	do.	40.00	700.00	-----	12	1906	do.	I W	
3-2459-10	9	do.	40.00	-----	-----	12	1906	do.	I W	
3-2459-11	9	do.	40.00	-----	-----	12	1906	do.	I W	
3-2459-12	9	do.	40.00	700.00	-----	12	1906	do.	I W	
3-2459-13	9	do.	40.00	700.00	-----	12	1906	do.	I W	
3-2459-14	9	do.	40.00	700.00	-----	12	1906	do.	I W	
3-2459-15	9	do.	146.00	161.00	8.00	8	1948	II ESTATE	U U	FORMER BMS OBS WELL.
3-2459-16	9	do.	22.00	131.00	48.00	4	1955	H KAWANO	- Z	ABANDONED.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-2459-17	9	PH-KOOLAU	19.00	142.00	C	104.00	6	1957 G GORA	H	W	
3-2459-18	9	do.	22.00	185.00	C	48.00	4	1963 F FURUYA	H	W	3-2459-19 TO 20.
3-2459-19Z	9	PH-KOOLAU	202.00	337.00	C	234.00	16	1964 HONOLULU BMS	P	W	
3-2459-20	9	do.	202.00	337.00	C	234.00	16	do.	P	W	
3-2459-21	9	do.	32.00	454.00	C	258.00	6	1965 Y IKEMOTO	I	W	
3-2459-22	9	do.	20.00	114.00	C	50.00	4	1973 D ALIPIO	P	W	3-2459-23 TO 24.
3-2459-23Z	9	PH-KOOLAU	201.00	363.00	C	238.00	16	1977 HONOLULU BMS	P	W	
3-2459-23	9	do.	200.00	367.00	C	236.00	16	do.	P	W	
3-2459-24	9	do.	28.00	100.00	C	84.00	4	1977 R CABITAC	H	W	
3-2459-25	9	do.									
3-2500-01Z											
3-2500-01	9	PH-KOOLAU	416.00	546.00	C	446.00	16	1978 HONOLULU BMS	P	W	3-2500-01 TO 02.
3-2500-02	9	do.	416.00	560.00	C	450.00	16	do.	P	W	
3-2501-01	5	PH-KOOLAU	242.00	455.00	C	-----	12	1910 O R & L CO.	-	Z	FILLED.
3-2557-01Z											
3-2557-01	9	PH-KOOLAU	495.00	512.00	C	512.00	10	1941 STATE	T	W	3-2557-01 TO 02.
3-2557-02	9	do.	495.00	592.00	C	526.00	14	do.	T	W	
3-2557-03	9	do.	620.00	750.00	C	650.00	12	1977 HONOLULU BMS	U	W	
3-2558-01	9	PH-KOOLAU	150.00	278.00	C	-----	1	1948 US NAVY	-	Z	SEALED MAY 1952.
3-2558-02	9	do.	185.00	218.00	C	-----	1	1948 do.	U	T	
3-2558-03	9	do.	106.00	137.00	C	-----	1	1948 do.	-	Z	FILLED.
3-2558-04	9	do.	134.00	200.00	C	-----	1	1948 do.	U	T	
3-2558-05	9	do.	149.37	178.00	C	-----	1	1948 do.	U	T	
3-2558-06	9	do.	425.00	475.00	C	468.00	1	1948 do.	-	Z	SEALED MAY 1952.
3-2558-07	9	do.	391.00	409.00	O	-----	7	1948 do.	-	Z	SEALED MAY 1952.
3-2558-08	9	do.	438.00	493.00	C	-----	1	1948 do.	U	U	FORMER USGS OBS WELL.
3-2558-09	9	do.	414.00	435.00	C	435.00	1	1948 do.	-	Z	FORMER USGS OBS WELL.
3-2558-10	9	do.	150.00	-----	-	-----	-----	1950 do.	P	W	USGS NETWORK WELL/WATAWA SHAFT 16.
3-2600-01	9	PH-KOOLAU	304.00	353.00	C	341.00	0.75	1954 T KONDO	U	O	
3-2600-02	9	do.	297.00	401.00	C	299.00	10	1957 WATAWAE NUI FRM	P	W	
3-2600-03	9	do.	664.20	814.00	C	705.00	16	1980 MILLILANI TOWN	U	O	
3-2600-04	9	do.	664.67	815.00	C	705.00	16	do.	U	O	MONITOR WELL.

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--continued

WELL NUMBER	GROUND-WATER BODY	MAP NO.	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-2603-01	PH-WAIAWAE	5	745.00	991.00	777.00	12	1961	HAW CTRY CLUB	P W	USGS NETWORK WELL.
3-2657-01	PH-KOOLAU	9	367.00	500.00	94.00	2	1952	BISHOP ESTATE	I W	
3-2657-02	do.	9	360.00	600.00	370.00	12	1953	do.	I W	
3-2658-01Z										3-2658-01 TO 02.
3-2658-01	PH-KOOLAU	9	702.00	805.00	740.00	20	1961	OAHU SGR CO.	I W	
3-2658-02	do.	9	700.00	835.00	764.00	20	1961	do.	I W	
3-2658-03	do.	9	700.00	-----	-----	-----	1975	do.	I W	
3-2701-01	PH-KOOLAU	5	560.00	550.00	-----	8	1945	US ARMY	- Z	ABANDONED.
3-2703-01	PH-WAIAWAE	5	847.00	976.00	976.00	12	1946	CAL PACK CORP.	U U	
3-2759-01	PH-KOOLAU	9	530.00	175.00	172.00	6	1945	T IGE	- Z	ABANDONED.
3-2759-02	do.	9	564.00	681.00	670.00	2	1954	DOLE CORP.	U U	
3-2800-01Z										3-2800-01 TO 02.
3-2800-01	PH-KOOLAU	9	762.00	1012.00	802.00	20	1968	HONOLULU BWS	P W	USGS NETWORK WELL.
3-2800-02	do.	9	758.00	1008.00	798.00	20	1968	do.	P W	
3-2800-03	do.	9	760.00	1022.00	808.00	20	1972	do.	P W	
3-2800-04	do.	9	758.00	1008.00	798.00	20	1975	MILLIANI TOWN	P W	
3-2801-01	PH-KOOLAU	9	636.00	784.00	653.00	12	1955	H STEARNS	U U	
3-2803-01	SCHOFIELD	5	866.00	1020.00	1020.00	1	1957	US NAVY	U T	
3-2803-02	do.	5	860.00	1020.00	892.00	16	1958	do.	U U	
3-2803-03	do.	5	863.00	1020.00	897.00	16	1958	do.	U U	
3-2803-04	do.	5	757.00	757.00	-----	0.75	1959	do.	U T	
3-2803-05	do.	5	857.00	1020.00	887.00	16	1959	DEL MONTE	I W	
3-2803-06	do.	5	757.00	646.00	604.00	16	1959	US NAVY	U U	
3-2803-07	do.	5	872.00	990.00	830.00	16	1979	DEL MONTE	I W	
3-2805-01	WAIANAE-DIKE	5	950.00	-----	-----	-----	-----	DEL MONTE	U U	WAIKELE DEV TUNNEL.
3-2858-01	PH-KOOLAU	9	960.00	1160.00	1030.00	18	1984	STATE DONALD	P W	
3-2858-02	do.	9	960.00	1160.00	1000.00	18	1984	do.	P W	

Table 3. General information on the wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	DIA. (in.)					
3-2859-01Z												
3-2859-01	9	PH-KOOLAU	835.00	995.00	C	835.00	16	1978	HONOLULU BWS	P	W	3-2859-01 TO 02.
3-2859-02	9	do.	835.00	985.00	C	875.00	16	1979	do.	P	W	FORMER MONITOR WELL.
3-2901-01	5	SCHOFIELD	287.00	80.00	C	36.00	17	1938	US ARMY	-	Z	ABANDONED.
3-2901-02	5	do.	287.00	28.00	O	-----	-----	1938	do.	P	W	
3-2901-03	5	do.	287.00	150.00	C	86.00	17	1938	do.	P	W	
3-2901-04	5	do.	287.00	264.00	C	86.00	17	1938	do.	P	W	
3-2901-05	5	do.	279.00	300.00	C	43.00	-----	1936	do.	U	U	
3-2901-06	5	do.	287.00	264.00	C	80.00	17	1938	do.	P	W	
3-2901-07	5	do.	850.00	-----	-	-----	-----	1938	do.	P	W	USGS NETWORK WELL/SHAFT 4.
3-2901-08Z												
3-2901-08	5	SCHOFIELD	870.00	880.00	C	650.00	16	1941	HONOLULU BWS	P	W	3-2901-08 TO 09, 11.
3-2901-09	5	do.	871.23	990.00	C	633.00	18	1947	do.	P	W	
3-2901-10	5	do.	287.00	278.00	C	113.00	16	1956	US ARMY	P	W	USGS NETWORK WELL.
3-2901-11	5	do.	873.00	821.00	C	652.00	20	1962	HONOLULU BWS	P	W	
3-2901-12	5	do.	874.00	858.00	C	700.00	20	1983	do.	P	W	
3-2902-01	5	SCHOFIELD	866.00	986.00	C	786.00	20	1974	HONOLULU BWS	U	W	
3-2904-01	5	WAIANAE-DIKE	950.00	170.00	C	165.00	12	1941	DEL MONTE	P	W	
3-3059-01	8	SCHOFIELD	986.00	209.00	O	-----	VAR	1940	WAIANA WATER	-	Z	ABANDONED/DIA. 18 TO 10 IN.
3-3059-02	8	do.	986.00	509.00	C	162.00	16	1941	do.	-	Z	ABANDONED.
3-3100-01	8	SCHOFIELD	1145.00	548.00	O	-----	VAR	1941	US NAVY	-	Z	ABANDONED/DIA. 18 TO 16 IN.
3-3100-02	8	do.	1145.00	970.00	C	968.00	14	1942	do.	U	U	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu

WELL NUMBER	L O G	F T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)		PUMPAGE
3-1549-01	X		SALTWATER			
3-1549-02	X		1955 5,850 ppm (U)			
3-1648-01	X	X		1936 2.00 (D)		
3-1649-01	X		1886 59 ppm (U) 1892 312 ppm (U) 1915 10,400 ppm (U) 1927 14,500 ppm (U)			
3-1649-02			1918 285 ppm (U) 1924 7,400 ppm (U)			
3-1649-03	X		1925 8,000 ppm (U)			
3-1649-04			1910 2,850 ppm (U) 1915 2,860 ppm (U) 1924 3,400 ppm (U) 1926 8,310 ppm (U)			
3-1649-05	X		1910 55 (U) 1915 55 (U) 1924 119 (U)	1923 20.16 (U) 1924 19.91 (U)	1926 19.88 (U) 1928 24.03 (U)	
3-1649-06	X		1910 59 (U) 1915 59 (U) 1924 122 (U)	1916 23.44 (U) 1923 22.31 (U) 1924 22.40 (U)	1926 18.85 (U) 1928 24.20 (U)	
3-1649-07	X			1924 19.60 (U)		
3-1649-08	X		1910 493 (U) 1915 520 (U) 1924 1,830 (U)	1919 22.89 (U) 1923 20.90 (U) 1924 19.90 (U)	1926 18.07 (U) 1928 23.47 (U)	
3-1649-09	X	X	1921 10,400 ppm (U) 1923 11,000 ppm (U) 1926 11,400 ppm (U) 1928 12,900 ppm (U)	1919 12.68 (U) 1923 11.75 (U)	1926 8.05 (U) 1928 12.44 (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F T L L O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1649-10	X	1954 20,000 ppm (S)		
3-1649-11		1967 1,370 (U)	1967 1.90 (U)	
3-1748-01			1916 24.38 (U) 1923 22.28 (U) 1919 22.30 (U) 1926 20.88 (U) DAILY (B) 1929-79 ANNUAL (B) 1980-84	
3-1748-02			1928 22.50 (U)	
3-1748-03Z		1935 46 (S) 1965 50 (S) 1959 65 (S) 1967 78 (S) 1964 68 (S) ANNUAL (U) 1906,1910,1913-14, 1920-21,1923-24,1962 (B) 1926,1928-29,1935-84	1924 22.29 (U)	MONTHLY (B) 1904-16,1924-84.
3-1748-03		MONTHLY (B) 1928-32 ANNUAL (B) 1935-46,1948-61, 1963-72,1974-84	ANNUAL (U) 1901,1904,1908,1911, 1914,1919-23 (B) 1929-30,1932, 1934-61,1963-71, 1974-75,1977	SEE 3-1748-03Z.
3-1748-04		ANNUAL (B) 1928-29,1932, 1935-61,1963-72, 1974-81	ANNUAL (B) 1929-30,1932, 1934-61,1963-66, 1968-71,1974-75,1977	Do.
3-1748-05		ANNUAL (B) 1929,1931-32, 1935-46,1948-61, 1963-72,1974-84	1924 22.29 (U) ANNUAL (B) 1929-30,1932, 1935-46,1948-61, 1963-71,1974-75,1977	Do.
3-1748-06		MONTHLY (B) 1929-43 ANNUAL (B) 1944-61,1963-72, 1974-78,1980-84	1924 22.35 (U) ANNUAL (B) 1929,1931-32, 1935-61,1963-67, 1969-71,1974-75,1977	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	TEST DATE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1748-07	X	ANNUAL (B) 1928-29, 1931-32, 1934-61, 1963-72, 1974-78, 1980-84	ANNUAL (B) 1931-32, 1935-61, 1963-71, 1974-75, 1977	SEE 3-1748-03Z.
3-1748-08	X	ANNUAL (B) 1928-29, 1931-32, 1934-61, 1963-72, 1974-84	ANNUAL (B) 1929-31, 1934-61, 1963-71, 1974-75, 1977	Do.
3-1748-09	X	ANNUAL (B) 1928-29, 1931-32, 1934, 1945-54 MONTHLY (B) 1955-69, 1974-84	WEEKLY (B) 1929-30, 1932-34 ANNUAL (B) 1928, 1931, 1935-61, 1963-71, 1974-75, 1977	Do.
3-1748-10	X	MONTHLY (B) 1928-84	1928 25.00 (U) ANNUAL (B) 1929-32, 1934-57, 1959-61, 1963-66, 1968-71, 1974-75, 1977	Do.
3-1748-11			ANNUAL (B) 1969-72, 1974-84	
3-1748-12	X	1975 3,000 ppm (S)	ANNUAL (B) 1975-80 MONTHLY (B) 1981-84	
3-1748-13		1984 39 (B)	1984 25.00 (S)	
3-1749-01	X X	1910 34 (U) 1926 34 (U) 1924 28 (U) 1928 29 (U) 1925 34 (U) 1972 70 (U) ANNUAL (B) 1929-32, 1934-61, 1963-71	1923 21.73 (U) 1926 20.15 (U) 1924 21.68 (U) 1928 23.92 (U) ANNUAL (B) 1929-32, 1934-61, 1963-71	MONTHLY (B) 1929-66.
3-1749-02			1938 2.09 (B)	
3-1749-03				
3-1749-04	X	1910 30 (U)	1919 25.14 (U)	
3-1749-05	X	1910 37 (U) 1926 182 (U) 1924 136 (U) 1928 218 (U) 1925 152 (U) MONTHLY (B) 1929-41	1910 24.61 (U) 1924 21.20 (U) 1916 24.55 (U) 1926 20.40 (U) 1923 21.72 (U) 1928 22.32 (U) SEMIANNUAL (B) 1929-32, 1934-44	MONTHLY (B) 1929-44.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F I L E N O I S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1749-06	X	1910 34 (U) 1929 26 (B) 1926 28 (U) 1930 28 (U) 1928 27 (U)	1919 23.32 (U) 1927 20.77 (U) 1923 21.90 (U) 1928 22.35 (U) 1924 20.72 (U) 1929 23.72 (B) 1926 20.26 (U)	
3-1749-07	X	1910 56 (U) 1926 49 (U) 1924 49 (U) SEMIANNUAL (B) 1929-32, 1934-43 MONTHLY (B) 1944-51	1911 25.00 (U) 1926 18.97 (U) 1916 23.32 (U) 1928 23.85 (U) 1923 22.48 (U) 1951 27.05 (U) 1924 20.76 (U) SEMIANNUAL (B) 1929-32, 1934-51	MONTHLY (B) 1929-84.
3-1749-07 TB A		MONTHLY (B) 1951-70	ANNUAL (B) 1955, 1957-61, 1963-70	SEE 3-1749-07.
3-1749-07 TB D		MONTHLY (B) 1951-79 (U) 1972-79	MONTHLY (U) 1972-79 ANNUAL (B) 1955, 1957-58, 1960-61, 1963-65, 1967-72, 1974-79	Do.
3-1749-07 TB E		MONTHLY (B) 1951-84 (U) 1961-80	MONTHLY (U) 1961-80 ANNUAL (B) 1955-61, 1963-72, 1974-84	Do.
3-1749-08	X	1910 51 (U) 1928 54 (U) 1924 49 (U) 1969 225 (U) 1926 51 (U) MONTHLY (B) 1929-30, 1944-84 ANNUAL (B) 1931-32, 1934-43	1923 20.13 (U) 1926 18.39 (U) 1924 19.40 (U) 1928 21.52 (U) ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-84	MONTHLY (B) 1929-84.
3-1749-08 TB A		1969 335 (U) 1972 208 (U) MONTHLY (B) 1945-71	ANNUAL (B) 1955-56, 1958-61, 1963-71	SEE 3-1749-08.
3-1749-09	X	1910 74 (U) 1926 118 (U) 1924 95 (U) 1928 125 (U)		
3-1749-10	X	1910 47 (U) MONTHLY (U) 1920-21, 1923-28 (B) 1929-30 SEMIANNUAL (B) 1931-32, 1934-40	MONTHLY (U) 1916-21, 1923-28 SEMIANNUAL (B) 1929-32, 1934-40	MONTHLY (B) 1929-40.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDES GWT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1749-11	X	1910 47 (U) 1926 50 (U)	1918 23.76 (U) 1919 22.83 (U)	MONTHLY (B) 1932-44.
		1911 46 (U)	MONTHLY (U) 1910-16, 1928	
		MONTHLY (U) 1912-16, 1924-25, 1928 SEMIANNUAL (B) 1929, 1931-32, 1934-44	SEMIANNUAL (B) 1929-32, 1934-45	
3-1749-12	X	1910 240 (U) 1926 564 (U)	1916 22.79 (U) 1926 18.04 (U)	MONTHLY (B) 1930-48.
		1924 296 (U) 1927 432 (U)	1923 19.92 (U) 1928 23.06 (U)	
		1925 425 (U) 1928 810 (U)	1924 19.20 (U)	
		MONTHLY (B) 1929-48	SEMIANNUAL (B) 1929-32, 1934-49	
3-1749-13	X	1910 216 (U) 1926 157 (U)	1916 23.68 (U) 1924 21.39 (U)	
		1924 59 (U) 1928 250 (U)	1919 22.93 (U) 1926 18.82 (U)	
		1925 72 (U)	1923 21.42 (U)	
		1911 57 (U) 1926 80 (U)	1926 18.86 (U)	
3-1749-14	X	1924 65 (U) 1928 77 (U)	MONTHLY (U) 1910-13	MONTHLY (B) 1929-84.
		MONTHLY (U) 1912-14	SEMIANNUAL (B) 1929, 1931-32, 1934-50	
		(B) 1929-30, 1944-50		
		SEMIANNUAL (B) 1931-32, 1934-43		
3-1749-14 TB A		MONTHLY (B) 1951-68	ANNUAL (B) 1955-61, 1963-68	SEE 3-1749-14.
3-1749-14 TB B		MONTHLY (B) 1951-84	ANNUAL (B) 1955-61, 1963-72, 1974-84	Do.
3-1749-15	X	1910 44 (U) 1926 39 (U)	1923 22.76 (U) 1928 23.27 (U)	MONTHLY (B) 1929-40.
		1924 39 (U) 1928 36 (U)	1924 19.73 (U) 1934 20.72 (U)	
		SEMIANNUAL (B) 1929-32, 1934-40	1926 19.30 (U) 1935 26.96 (U)	
3-1749-16	X	1920 49 (U) 1923 48 (U)	1919 20.30 (U)	MONTHLY (B) 1935-65.
	X	1921 49 (U) 1926 54 (U)	MONTHLY (U) 1920-21, 1923-24	
		ANNUAL (B) 1931-32, 1934-43	CONTINUOUS (U) 1926-32	
		MONTHLY (B) 1944-55	WEEKLY (B) 1927-34	
		BIMONTHLY (B) 1956-66	ANNUAL (B) 1935-61, 1963-66	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L I L E O I O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)		WATER LEVEL (in feet above MSL)	PUMPAGE
		1917 1925 1926 MONTHLY BIMONTHLY	1928 1971 700 (U) 1929-55 1956-70		
3-1749-17	X X	83 (U) 236 (U) 256 (U)	341 (U) 700 (U)	1926 18.53 (U) ANNUAL (B) 1929-32, 1934-61, 1963-70	MONTHLY (B) 1929-65.
3-1749-18	X X	32 (U) MONTHLY (U) 1924-61 ANNUAL (B) 1929-32, 1934-59, 1961, 1963-71 BIMONTHLY (B) 1972-84	55 (U)	MONTHLY (U) 1923-61 ANNUAL (B) 1929-32, 1934-59, 1961, 1963-69, 1971-72, 1974-84	MONTHLY (B) 1929-84.
3-1749-19	X	ANNUAL (B) 1929-32, 1934-43 MONTHLY (B) 1944-55 BIMONTHLY (B) 1956-84		ANNUAL (B) 1931-32, 1934-44, 1946-59, 1963-71, 1974-84	MONTHLY (B) 1929-84.
3-1749-20	X	1954 37 (D)			
3-1749-22		1970 378 (U) 1971 154 (B) MONTHLY (U) 1972-78	116 (B) 107 (B)	ANNUAL (B) 1971-72, 1974-77 MONTHLY (B) 1978-84 (U) 1972-78	
3-1749-23					
3-1750-01		1886 43 (U) 1924 65 (U) 1928 67 (U)	1929 62 (B) 1931 61 (B) 1932 63 (B)	1919 29.91 (U) 1923 27.47 (U) 1924 27.60 (U) 1926 24.15 (U) 1928 29.89 (U) 1929 24.95 (B) 1931 28.32 (B) 1932 29.16 (B)	MONTHLY (B) 1929-32.
3-1750-02	X	ANNUAL (U) 1910, 1924, 1926, 1928, 1972-74 (B) 1929-32, 1934-61, 1963-72		1919 29.55 (U) 1923 27.79 (U) 1924 27.94 (U) ANNUAL (B) 1929-32, 1934-61, 1963-72	MONTHLY (B) 1929-74.
3-1750-03	X	1910 58 (U) 1924 91 (U)	1926 83 (U) 1928 82 (U)	1919 28.20 (U) 1923 27.47 (U)	MONTHLY (B) 1926.
3-1750-04	X				

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	DATE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1750-05	X			
3-1750-06	X	SALT WATER		
3-1750-07	X	SALT WATER		
3-1750-08	X	SALT WATER		
3-1750-09	X	1967 490 (B)		
3-1751-01	X	1939 13,500 ppm (D) 1939 16,100 ppm (U)		
3-1751-02	X	1949 15,700 ppm (U)		
3-1751-03	X	1968 18,000 ppm (U)		
3-1751-05		1968 17,100 ppm (U)		
3-1751-06	X			
3-1800-01	X			
3-1805-01	X	1957 948 (U) 1958 769 (U)	1957 1.11 (U)	
3-1805-02	X	BRACKISH WATER		
3-1806-01	X	1957 4,760 ppm (U) 1958 4,020 ppm (U)	1957 0.83 (U)	
3-1806-02	X	1957 7,430 ppm (U) 1958 3,780 ppm (U)	1957 0.80 (U)	
3-1806-03	X	1959 9,050 ppm (U)		
3-1806-04	X	1959 3,020 ppm (U)		
3-1806-05	X			

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1806-06	X	1959 14,000 ppm (U)		
3-1806-08	X			
3-1847-01	X	1974 24 (U) MONTHLY (B) 1974, 1976-84	1974 21.73 (B) 1975 25.34 (B) 1983 26.32 (B)	MONTHLY (B) 1975-84.
3-1849-01	X	1910 49 (U) 1924 48 (U) 1929 40 (B) 1934 39 (B)	1884 43.50 (U) 1884 42.60 (U) 1899 35.50 (U) 1934 26.15 (U) SEMIANNUAL (B) 1934-38	MONTHLY (B) 1929-30.
3-1849-02	X	1909 51 (U) SEMIANNUAL (B) 1929, 1931-32, 1934-42	1919 29.88 (U) 1923 27.83 (U) 1926 24.35 (U) SEMIANNUAL (B) 1929-32, 1934-42	MONTHLY (B) 1929-43.
3-1849-03				
3-1849-04	X	1910 52 (U)	1885 42.00 (U) 1916 30.12 (U) 1926 24.18 (U) 1923 27.08 (U) 1929 28.93 (U)	
3-1849-05	X	1910 55 (U)	1926 23.01 (U) MONTHLY (U) 1899-1904 WEEKLY (U) 1908-1910	MONTHLY (U) 1908-10.
3-1849-06	X	1910 54 (U) 1924 62 (U) ANNUAL (B) 1929-32, 1934-61, 1963-70, 1972	1916 30.07 (U) 1919 29.91 (U) 1926 24.14 (U) 1923 28.33 (U) ANNUAL (B) 1929-32, 1934-61, 1963-70, 1972, 1975-80	MONTHLY (B) 1929-66.
3-1849-07	X	1910 55 (U) 1924 55 (U) ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-79, 1981-84	1919 29.85 (U) 1923 27.63 (U) 1924 27.68 (U) ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-84	MONTHLY (B) 1929-33, 1936-45, 1953, 1960-65.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	DEPTH (FT)	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1849-08	X	1910 56 (U) 1924 62 (U) 1911 58 (U) 1926 69 (U) MONTHLY (U) 1912-15 SEMIANNUAL (B) 1929-32, 1934-51	1923 27.73 (U) 1926 24.27 (U) 1924 26.90 (U) MONTHLY (U) 1910-15 SEMIANNUAL (B) 1929-32, 1934-51	MONTHLY (B) 1929-51.
3-1849-09	X	1910 55 (U) 1931 20 (B) 1929 30 (B) 1932 16 (B)	1918 26.50 (U) 1947 23.95 (B)	MONTHLY (B) 1929-32.
3-1849-10	X	1910 49 (U) 1967 49 (U) WEEKLY (U) 1920-21, 1923-29 ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-84, (S) 1946, 1955, 1957-58, 1962, 1965, 1967, 1969, 1971	WEEKLY (U) 1910-31 ANNUAL (B) 1929-31, 1953-61, 1963-64, 1968-72, 1974, 1982-83 MONTHLY (B) 1932-52	MONTHLY (U) 1911-16, (B) 1929-84.
3-1849-11Z		1920 48 (U) 1926 51 (U) 1924 52 (U) 1928 51 (U)		MONTHLY (U) 1914-16, (B) 1924-29.
3-1849-11		1929 51 (B) 1935 109 (B) 1934 106 (B)	1924 27.70 (U) DAILY (B) 1934-58 ANNUAL (B) 1929-32, 1963-71, 1974-83	SEE 3-1849-11Z.
3-1849-12			ANNUAL (B) 1932, 1934-61, 1968-71, 1974-83	Do.
3-1849-13Z				MONTHLY (B) 1963-84.
3-1849-13	X	1964 62 (S) ANNUAL (B) 1962, 1967-72, 1974-76, 1978-79, 1982-84	ANNUAL (B) 1962, 1964, 1966-71, 1978, 1980-81	SEE 3-1849-13Z.
3-1849-14	X	ANNUAL (B) 1962, 1966-68, 1970-72, 1974-84	ANNUAL (B) 1962, 1964-71, 1978	Do.
3-1849-15	X	1962 61 (U) MONTHLY (B) 1962-79, 1981-84	ANNUAL (B) 1962, 1966-69, 1980-82	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1849-16	X	ANNUAL (B) 1962, 1966-72, 1974-80, 1982-84	1962 26.23 (U) ANNUAL (B) 1964-69, 1978, 1981	SEE 3-1849-13Z.
3-1850-01				
3-1850-02	X	1910 51 (U) 1931 96 (B) 1924 54 (U) 1932 102 (B) 1928 51 (U) 1934 74 (B)	1919 29.85 (U) 1926 24.41 (U) 1923 28.03 (U) 1928 29.54 (U) 1924 27.76 (U) SEMIANNUAL (B) 1929-32, 1934-53	MONTHLY (B) 1929-32.
3-1850-03		1900 36 (U) 1920 41 (B)	1929 25.59 (B) 1931 28.85 (B) 1930 28.99 (B) 1932 30.83 (B)	
3-1850-04	X			
3-1850-05		1910 61 (U)	1919 29.70 (U) 1924 27.52 (U) 1920 25.85 (U) 1926 24.10 (U) 1923 27.80 (U) 1928 27.53 (U)	
3-1850-06		1937 48 (S) 1946 50 (S) SEMIANNUAL (B) 1929-32, 1934-53	1916 30.06 (U) 1926 23.62 (U) 1924 27.50 (U) SEMIANNUAL (B) 1929-32, 1934-54	MONTHLY (B) 1929-54.
3-1850-07	X			
3-1850-08	X			
3-1850-09	X	1910 62 (U) 1926 43 (U) 1924 43 (U) 1928 41 (U) SEMIANNUAL (B) 1929-32, 1934	1919 29.57 (U) 1926 22.65 (U) 1923 27.45 (U) 1928 29.45 (U) 1924 27.86 (U) SEMIANNUAL (B) 1929-32, 1934-38	MONTHLY (B) 1929-32.
3-1850-10	X	1910 58 (U)	1916 29.97 (U) 1926 23.93 (U) 1923 27.10 (U) 1928 28.90 (U)	
3-1850-11	X		1926 24.14 (U) SEMIANNUAL (B) 1929-32, 1934-53	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	TEST DATE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1850-12	X	1909 60 (U)	1916 30.10 (U)	MONTHLY (B) 1939-43.
		1924 64 (U)	1919 29.88 (U)	
		1930 76 (B)	1926 24.03 (U)	
		1942 92 (B)	1923 27.59 (U)	
		SEMIANNUAL (B) 1939-42		
3-1850-13		1910 54 (U)	1882 42.75 (U)	
			1883 40.40 (U)	
3-1850-14			1919 24.03 (U)	
			1924 27.83 (U)	
			1923 27.29 (U)	
			1926 24.17 (U)	
			SEMIANNUAL (B) 1929-32, 1934-46	
3-1850-15	X	1926 48 (U)		
3-1850-16		1910 53 (U)	1923 27.00 (U)	MONTHLY (B) 1929-37.
		1924 44 (U)	1926 24.01 (U)	
		1920 72 (U)	1935 27.81 (U)	
		SEMIANNUAL (B) 1929-32, 1934-37	SEMIANNUAL (B) 1929-32, 1934-40	
3-1850-17		1909 63 (U)		
		1910 62 (U)		
3-1850-18			1923 26.42 (U)	
			1926 24.07 (U)	
			1924 27.65 (U)	
			1928 29.50 (U)	
3-1850-19			1916 30.22 (U)	
			1924 27.84 (U)	
			1923 27.80 (U)	
			1926 23.59 (U)	
3-1850-20	X	1910 56 (U)	1910 30.62 (U)	MONTHLY (B) 1929-53.
		1924 55 (U)	1916 30.08 (U)	
		1926 60 (U)	1924 27.78 (U)	
		1929-32, 1934-52	1919 26.80 (U)	
		1926 24.09 (U)	SEMIANNUAL (B) 1929-32, 1934-52	
3-1850-21	X	1910 62 (U)	1919 29.75 (U)	MONTHLY (B) 1929-64.
		1928 64 (U)	1926 24.18 (U)	
		1924 62 (U)	1928 29.57 (U)	
		1929-32, 1934-61, 1963-64	1924 28.55 (U)	
		1930 29.54 (U)	ANNUAL (B) 1929-32, 1934-61, 1963-64	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	L I L L I E O I O S G W I T	F I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1850-22			1910 61 (U) 1924 62 (U) SEMIANNUAL (B) 1929-32	1922 27.63 (U) 1924 27.00 (U) 1926 23.36 (U) SEMIANNUAL (B) 1929-32	MONTHLY (B) 1929-32.
3-1850-23	X		1910 47 (U)	1916 30.08 (U) 1923 27.23 (U)	
3-1850-24			1906 32 (U)	1924 25.60 (U)	
3-1850-25			1910 65 (U)		
3-1850-26	X X		1924 57 (U) 1926 60 (U) SEMIANNUAL (B) 1929-32, 1934-40	1916 30.04 (U) 1924 27.70 (U) SEMIANNUAL (B) 1929-32, 1934-40	MONTHLY (B) 1929-40.
3-1850-27			1924 75 (U) 1926 80 (U) SEMIANNUAL (B) 1929-32, 1934-61, 1963	1923 27.03 (U) SEMIANNUAL (B) 1929-32, 1934-46, 1949-61, 1963	MONTHLY (B) 1929-63.
3-1850-28	X				
3-1851-01	X X		1910 65 (U) 1924 47 (U) SEMIANNUAL (B) 1929-32, 1934-52, 1954-55, 1958-61	1910 30.54 (U) 1916 29.91 (U) 1923 27.58 (U) SEMIANNUAL (B) 1929-32, 1934-52, 1954-55, 1958-61	MONTHLY (B) 1929-58.
3-1851-02	X		1885 33 (U) 1886 53 (U)	1882 42.00 (B) CONTINUOUS (U) 1925-32 DAILY (B) 1925-84	
3-1851-03	X		1910 91 (U) MONTHLY (U) 1912-15 ANNUAL (B) 1931-32, 1934-38, 1947, 1968-72	1916 28.23 (U) 1919 27.97 (U) 1923 23.38 (U) MONTHLY (U) 1910-15 ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-76	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILED LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1851-04	X X	1886 43 (U) 1910 54 (U) 1900 44 (U) ANNUAL (B) 1929,1931-32, 1935-38,1946-47	1889 42.75 (U) 1919 25.20 (U) 1890 42.75 (U) 1928 29.13 (U) SEMIANNUAL (B) 1929-32,1935-46, 1948-53	MONTHLY (B) 1929-31,1955-63.
3-1851-04 TB A	-	MONTHLY (B) 1955-84	ANNUAL (B) 1955-61,1965-72, 1974-84	SEE 3-1851-04.
3-1851-04 TB B	-	MONTHLY (B) 1955-84	ANNUAL (B) 1955,1957-61, 1963-72,1974-84	Do.
3-1851-05	-	1910 48 (U) 1924 43 (U)		
3-1851-06	X X			
3-1851-07	-	1900 35 (U) 1910 38 (U) ANNUAL (B) 1929-32,1934-35, 1937-44,1946-47, 1949-59,1961, 1963-70 BIMONTHLY (B) 1971-84 ANNUAL (S) 1946,1955,1958, 1964-65,1967-69,1971	1926 23.23 (U) 1934 25.33 (U) 1929 25.20 (U) ANNUAL (B) 1929-32,1934-46, 1948-61,1963-72, 1974-84	MONTHLY (B) 1924-84.
3-1851-08	X	1910 56 (U) 1926 50 (U) 1924 53 (U) SEMIANNUAL (B) 1929,1931-32, 1934-50	1920 27.16 (U) 1924 27.85 (U) 1923 27.05 (U) 1926 24.06 (U) SEMIANNUAL (B) 1929-32,1934-50	MONTHLY (B) 1929-50.
3-1851-09	-	1910 52 (U) 1926 46 (U) 1924 46 (U) 1928 43 (U) ANNUAL (B) 1929-32,1934-61, 1963-70 BIMONTHLY (B) 1971-84	1926 23.57 (U) 1928 29.13 (U) 1927 26.07 (U) ANNUAL (B) 1929-32,1934-61, 1963-72,1974-83	MONTHLY (B) 1927-66,1971-84.
3-1851-10	-		1916 30.28 (U) 1924 27.77 (U) 1923 27.62 (U) 1926 24.24 (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L L O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1851-11	X	1910 49 (U) 1955 48 (S) 1924 48 (U) 1957 51 (S) 1946 47 (S) SEMIANNUAL (B) 1929-32, 1934-59	1916 30.02 (U) 1924 28.50 (U) 1923 27.45 (U) 1926 23.38 (U) SEMIANNUAL (B) 1929-32, 1934-59	MONTHLY (B) 1929-59.
3-1851-12Z		1959 36 (S) 1967 57 (S) 1965 39 (S) ANNUAL 1895, 1900, 1906, 1910-14, 1920, 1924, 1962, 1965, 1969 (B) 1926-28, 1935-84	1910 30.93 (U) MONTHLY (U) 1911, 1913-16	MONTHLY (B) 1904-16, 1924-84.
3-1851-12		ANNUAL (U) 1895, 1900, 1906, 1910, 1912, 1924 (B) 1929, 1931-32, 1934-58, 1960-61, 1963-72, 1974-84	1924 27.73 (U) ANNUAL (B) 1929-32, 1934-58, 1960-61, 1963-71, 1974-75, 1977	SEE 3-1851-12Z.
3-1851-13	X	ANNUAL (B) 1929, 1931-32, 1934-58, 1960-61, 1963-72, 1974-84	1924 27.68 (U) ANNUAL (B) 1929-32, 1934-58, 1960-61, 1963-71, 1974-75, 1977	Do.
3-1851-14		1910 80 (U) 1928 73 (U) 1926 76 (U) SEMIANNUAL (B) 1929-32, 1934-39	1920 24.93 (U) 1928 28.43 (U) 1923 27.11 (U) 1929 25.49 (B) 1924 25.86 (U) 1930 29.85 (U) 1926 22.47 (U) SEMIANNUAL (B) 1934-39	MONTHLY (B) 1929-40.
3-1851-15		1910 70 (U) 1928 50 (U) SEMIANNUAL (B) 1929-32, 1934-45, 1969-72, 1974	1924 28.30 (U) 1928 29.54 (U) 1926 22.92 (U) ANNUAL (B) 1929-32, 1934-46, 1948-61, 1963-72, 1974-84	MONTHLY (B) 1929-45.
3-1851-16		1939 94 (U)	1938 25.92 (U)	
3-1851-17		1910 98 (U) 1926 179 (U) 1924 149 (U) 1928 190 (U) MONTHLY (B) 1929-36 SEMIANNUAL (B) 1937-40	1923 27.76 (U) 1926 22.66 (U) 1924 27.50 (U) 1928 29.71 (U) SEMIANNUAL (B) 1929-32, 1934-40	MONTHLY (B) 1929-40.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDES	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1851-18		ANNUAL (U) 1907, 1910, 1924, 1926, 1928 (B) 1929-32, 1934-61, 1963-72, 1974, 1977-78, 1982-83 (S) 1946, 1956-57, 1959, 1962	ANNUAL (U) 1923-24, 1926, 1928, 1944, 1946 (B) 1929-32, 1934-44, 1946-61, 1963-64, 1966-72, 1974-75	MONTHLY (B) 1929-70.
3-1851-19	X	1908 67 (U) 1924 248 (U) 1910 77 (U) 1925 405 (U) 1923 244 (U) 1926 280 (U) MONTHLY (B) 1929-44 SEMIANNUAL (B) 1945-53	1923 27.18 (U) 1955 29.14 (U) 1924 28.08 (U) ANNUAL (B) 1929-32, 1935, 1940, 1949, 1952	MONTHLY (B) 1929-53.
3-1851-19 TB A		MONTHLY (B) 1956-84 (U) 1973-84	ANNUAL (B) 1956-61, 1963-72, 1974-84 MONTHLY (U) 1973-84	
3-1851-19 TB B		MONTHLY (B) 1956-84 (U) 1973-84	ANNUAL (B) 1956-61, 1963-72, 1974-84 MONTHLY (U) 1973-84	
3-1851-20	X	1910 75 (U) 1912 66 (U) MONTHLY (B) 1920-21, 1929-30 ANNUAL (B) 1931-32, 1934-61, 1963-66, 1968-70, 1972, 1974-81 (S) 1946, 1957-58, 1962, 1965-66, 1968-69	MONTHLY (U) 1910-15 WEEKLY (B) 1916-29 ANNUAL (B) 1930-32, 1934-55, 1957-61, 1963-66, 1968-70, 1972, 1974-84	MONTHLY (B) 1929-82.
3-1851-21		ANNUAL (U) 1910, 1926, 1928, 1972 (B) 1929-32, 1934-43 MONTHLY (B) 1944-55 BIMONTHLY (B) 1956-84 ANNUAL (S) 1946, 1957-58, 1965, 1967-69, 1971-72	1919 29.12 (U) 1926 22.57 (U) 1923 27.34 (U) 1928 28.67 (U) ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-84	MONTHLY (B) 1929-84.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1851-22	X	1910 194 ppm (U) 1927 1,100 ppm (U) 1982 4,500 ppm (U) MONTHLY (B) 1928-39, 1944-54 SEMIANNUAL (B) 1959-60, 1982-83	1927 24.00 (U) 1982 19.60 (U) 1934 23.04 (U) SEMIANNUAL (B) 1928-50, 1953, 1959-60, 1982-84 CONTINUOUS (U) 1984	MONTHLY (B) 1929-54.
3-1851-23		ANNUAL (U) 1910, 1917, 1924, 1926, 1970 MONTHLY (B) 1929-30, 1944-55 ANNUAL (B) 1931-32, 1934-43 BIMONTHLY (B) 1956-71 ANNUAL (S) 1955, 1957, 1962, 1965, 1967, 1969-70	ANNUAL (B) 1929-32, 1934-61, 1963-71	MONTHLY (B) 1929-71.
3-1851-24	X	ANNUAL (B) 1928-29, 1931-32, 1934-61, 1963-72, 1974-84	1924 27.76 (U) ANNUAL (B) 1929-32, 1934-61, 1963-71, 1974-75, 1977	SEE 3-1851-122.
3-1851-25	X	ANNUAL (B) 1929, 1931-32, 1934-61, 1963-67	1924 27.71 (U) ANNUAL (B) 1929-32, 1934-61, 1963-67	Do.
3-1851-26	X	ANNUAL (U) 1910-11, 1920-21, 1924-28 MONTHLY (B) 1929-30, 1944-55 ANNUAL (B) 1931-32, 1934-43 BIMONTHLY (B) 1956-84 ANNUAL (S) 1947, 1956, 1963-65, 1968	1923 27.78 (U) 1926 24.73 (U) 1924 27.58 (U) ANNUAL (B) 1929-32, 1934-40, 1943, 1947-50, 1953-61, 1963-72, 1974-81, 1984	MONTHLY (B) 1929-84.
3-1851-27	X	1911 55 (U) 1924 82 (U) 1923 84 (U) 1925 129 (U) SEMIANNUAL (B) 1929-32, 1934-53	1923 27.18 (U) 1924 27.99 (U) ANNUAL (B) 1929, 1934-39, 1943, 1947-48	MONTHLY (B) 1929-54.
3-1851-28		1924 41 (U) ANNUAL (B) 1929-32, 1934-46, 1948, 1950-61, 1963-66, 1969-72, 1974 MONTHLY (U) 1930-78	1916 29.94 (U) 1924 27.84 (U) 1923 28.84 (U) 1926 24.02 (U) MONTHLY (U) 1930-78 ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-84	MONTHLY (B) 1929-65.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--continued

WELL NUMBER	TEST DATE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1851-29	X	ANNUAL (U) 1914, 1922, 1924-26, 1928 MONTHLY (B) 1929-38	1916 29.58 (U) 1926 22.69 (U) 1923 27.29 (U) 1928 29.41 (U) 1924 27.20 (U) SEMIANNUAL (B) 1929-32, 1934-38	MONTHLY (B) 1929-38.
3-1851-30	X	SEMIANNUAL (U) 1915-16, 1923-26 ANNUAL (B) 1929-32, 1934-61, 1963-71, 1974-76 (S) 1956-57, 1962, 1967, 1969, 1972	1915 28.76 (U) 1924 27.88 (U) 1916 31.71 (U) 1926 25.40 (U) 1923 27.44 (U) 1929 27.06 (U) ANNUAL (B) 1929-32, 1934-59, 1971, 1974-75	MONTHLY (B) 1929-76.
3-1851-31	X	ANNUAL (B) 1928-29, 1931-32, 1934-61, 1963-72, 1974-84	1924 28.00 (U) ANNUAL (B) 1929-32, 1934-61, 1963-71, 1974-75, 1977	SEE 3-1851-122.
3-1851-32	X	ANNUAL (B) 1929, 1931-32, 1934, 1945-61, 1963-72, 1974-84	1924 27.80 (U) 1928 28.23 (U) ANNUAL (B) 1929-32, 1934-61, 1963-71, 1974, 1977	Do.
3-1851-33	X	MONTHLY (B) 1928-43 ANNUAL (B) 1944-61, 1963-72, 1974-84	1926 23.49 (U) ANNUAL (B) 1929-32, 1935-61, 1963-71, 1974-75, 1977	Do.
3-1851-34	X	1926 MONTHLY (B) 1928-84	1926 23.50 (U) ANNUAL (B) 1929-32, 1934-61, 1963-71, 1974-75, 1977	Do.
3-1851-35	X	1926 ANNUAL (U) 47 (B) 1929, 1931-32, 1934-61, 1963-72, 1974-84	1926 23.27 (U) ANNUAL (B) 1929-32, 1934-61, 1963-71, 1974-75, 1977	Do.
3-1851-36	X	1937 38 (S) 1965 30 (S) 1962 35 (S) 1967 37 (S) 1964 34 (S) ANNUAL (B) 1937-61, 1963-68	ANNUAL (B) 1936-61, 1963-68	MONTHLY (B) 1936-69.
3-1851-37	X		1936 .40 (D)	

Table 4. Available data for wells, shafts and tunnels in Southern Dahu--Continued

WELL NUMBER	F I L T R I O N		CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
	X	X			
3-1851-38	X	X			
3-1851-39	X				
3-1851-40	X		1938 181 (D)		
3-1851-41	X		1938 139 (D)		
3-1851-42	X		1939 2,100 (U)	1939 0.17 (D)	
3-1851-44	X				
3-1851-45	X		1939 1,040 (U)		
3-1851-47	X		1939 2,240 (U)	1939 3.70 (D)	
3-1851-49	X				
3-1851-50	X				
3-1851-51	X		1952 966 (U)	1952 3.60 (D)	
3-1851-52	X		SALTWATER		
3-1851-53	X		1956 18,600 ppm (P)		
3-1851-54	X		1958 48 (U) ANNUAL (B) 1960-61, 1963-72, 1974-82, 1984 (S) 1962, 1964-65, 1967-68, 1971	1958 28.38 (U) ANNUAL (B) 1960-61, 1963-72, 1974-82, 1984	MONTHLY (B) 1959-84.
3-1851-55	X		1958 967 (U)	1958 1.00 (D)	
3-1851-56	X			1958 1.00 (D)	
3-1851-57			1960 17,600 ppm (B)	ANNUAL (B) 1964-72, 1974-84	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--continued

WELL NUMBER	L O G	L E V E L	S I T E	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE																	
							1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
3-1851-58	X			1961 42 (S) ANNUAL (B) 1964,1966-72,1974, 1977-82,1984	ANNUAL (B) 1961,1966-72,1974, 1976-81,1983-84	MONTHLY (B) 1967-70,1977-83.																	
3-1851-59	X			1970 52 (U) ANNUAL (B) 1964-69,1971	ANNUAL (B) 1964-69,1971	MONTHLY (B) 1967-69.																	
3-1851-60	X			1962 470 (U)	1962 1.19 (D)																		
3-1851-61	X			1963 6,480 ppm (U)																			
3-1851-62	X			1967 376 (U)																			
3-1851-63	X																						
3-1851-66	X																						
3-1851-67	X			ANNUAL (B) 1969-72,1974-84	ANNUAL (B) 1969-71,1974-75,1977	SEE 3-1851-122.																	
3-1851-68	X			1968 16,800 ppm (B)																			
3-1851-69	X			1968 17,600 ppm (U)																			
3-1851-71	X																						
3-1851-72	X																						
3-1852-01	X																						
3-1852-02	X			1939 14,500 ppm (U)																			
3-1852-03	X																						
3-1852-04	X																						
3-1852-05	X																						
3-1852-06	X																						

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	FLUORIDE IN GWT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1852-07	X	SEAWATER	TIDAL	
3-1852-08		1971 19,000 ppm (U)		
3-1853-01	X			
3-1900-01		1972 543 (U) 1975 600 (U) 1974 600 (U) WEEKLY (O) 1930-63 MONTHLY (O) 1972-74, 1976-82 (B) 1947-65 SEMIANNUAL (B) 1966-77, 1979, 1981, 1983-84	1932 1.48 (O) 1933 1.56 (O) MONTHLY (O) 1935-56 SEMIMONTHLY (O) 1957-58, 1960-63 DAILY (O) 1959, 1966-68 WEEKLY (U) 1958	MONTHLY (O) 1934-84.
3-1900-02		WEEKLY (O) 1930-63 MONTHLY (O) 1972-74, 1976-82 (B) 1947-59 ANNUAL (B) 1960-64, 1966-68, 1971-83	1932 1.47 (O) 1933 1.78 (O) MONTHLY (O) 1935-56 SEMIMONTHLY (O) 1957-63 DAILY (O) 1966-68	MONTHLY (O) 1934-84.
3-1900-03		1939 1,000 (U)		
3-1900-04		1940 905 (U)		
3-1900-05		1941 1,050 (U)		
3-1900-06		1941 1,100 (U)		
3-1900-07	X			
3-1900-08		1941 1,080 (U)		
3-1900-09		1941 1,050 (U)		
3-1900-10		1941 1,020 (U)		
3-1900-11	X	1941 1,070 (U)		
3-1900-12	X	1962 1,140 (U)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILE LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1900-13	X	1964 655 (B) 1973 615 (U) 1972 608 (U) WEEKLY (U) 1964-65	CONTINUOUS (U) 1964-65	MONTHLY (O) 1965-84.
3-1900-14	X			
3-1900-15	X			
3-1901-01		WEEKLY (O) 1933-63 MONTHLY (O) 1972-74, 1976-82 (B) 1947-64 ANNUAL (B) 1965-66, 1971-84	MONTHLY (O) 1935-56 SEMIMONTHLY (O) 1957-63 DAILY (O) 1966-68 WEEKLY (U) 1958	MONTHLY (O) 1934-84.
3-1901-02	X		1962 1.60 (D)	
3-1902-01		1964 635 (B) WEEKLY (U) 1964-65	CONTINUOUS (U) 1964-65	MONTHLY (O) 1965-84.
3-1904-01	X	1965 483 (U) 1966 784 (U) MONTHLY (O) 1972-81	CONTINUOUS (U) 1965-67	MONTHLY (O) 1965-82.
3-1905-01	X	1957 945 (U) 1958 881 (U)	1957 1.32 (U)	
3-1905-02	X	1957 806 (U) 1958 751 (U)		
3-1906-01	X	1957 826 (U) 1958 364 (U)	1957 1.02 (U)	
3-1906-02	X	1957 767 (U) 1958 770 (U)		
3-1907-01	X	1951 2,770 ppm (U)		
3-1947-01	X			
3-1947-02				MONTHLY (B) 1925-84.
3-1948-01	X	1983 12 (S)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F I T L I E O I S G I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1950-01		1936 54 (S) 1956 68 (S) 1946 60 (S) 1957 75 (S) ANNUAL (B) 1929-32, 1934-61, 1963-71 BIMONTHLY (B) 1972-76	1918 31.04 (U)	MONTHLY (B) 1929-76.
3-1951-01	X	1910 55 (U) 1932 56 (B) 1930 44 (B) 1934 82 (B) 1931 96 (B)	1916 30.84 (U) 1925 25.87 (U) 1918 31.40 (U) 1926 24.32 (U) SEMIANNUAL (B) 1929-32, 1934-44, 1946, 1948-52, 1963-65	MONTHLY (B) 1931.
3-1951-02				
3-1951-03		1910 70 (U) 1925 338 (U) 1911 291 (U) 1926 328 (U) 1912 305 (U) 1928 412 (U) MONTHLY (B) 1929-31	1924 29.57 (U) 1930 28.79 (B) 1926 24.97 (U) 1931 29.36 (B) 1928 29.67 (U)	MONTHLY (B) 1929-31.
3-1951-04	X	1939 69 (U)		
3-1952-01		1900 204 (U) 1928 120 (U) 1910 179 (U) 1929 119 (U) 1926 132 (U) SEMIANNUAL (B) 1929-32, 1934	1882 41.70 (U) 1926 24.88 (U) 1916 30.95 (U) 1928 29.37 (U) 1923 28.85 (U) 1929 29.57 (U) 1924 29.50 (U) SEMIANNUAL (B) 1929-32, 1934-45	MONTHLY (B) 1929-34.
3-1952-02	X			
3-1952-03	X	1947 142 (S) 1958 60 (S) 1957 55 (S) ANNUAL (U) 1909-11, 1917, 1924, 1926, 1928, 1940, 1971 MONTHLY (U) 1912-16 BIMONTHLY (B) 1929-55 BIMONTHLY (B) 1956-74	MONTHLY (U) 1910-16 ANNUAL (U) 1917, 1919, 1924, 1926, 1928, 1934, 1940 (B) 1929-32, 1934-58, 1963-72, 1974-84	MONTHLY (B) 1929-68.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILE NO. OR G.W.I.T.	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1952-04	X	1910 118 (U) 1926 96 (U)	1916 31.05 (U) 1926 25.03 (U)	MONTHLY (B) 1929-46, 1955.
		1925 112 (U) 1928 112 (U)	1924 29.78 (U) 1928 31.04 (U)	
		SEMIANNUAL (B) 1929-32, 1934-46, 1948, 1969-72, 1974	1925 28.20 (U)	
		MONTHLY (U) 1968-78	MONTHLY (U) 1968-78	
			ANNUAL (B) 1929-32, 1934-58, 1969-72, 1974-79	
3-1952-05	X	1910 138 (U) 1924 123 (U)	1923 28.89 (U) 1926 24.78 (U)	MONTHLY (B) 1929-44.
		1920 131 (U) 1926 136 (U)	1924 29.76 (U) 1928 30.25 (U)	
		1921 113 (U) 1928 124 (U)	MONTHLY (U) 1916-21	
		1923 123 (U)	SEMIANNUAL (B) 1929-32, 1934-44	
		SEMIANNUAL (B) 1929-32, 1934-44		
3-1952-06Z		1964 64 (S) 1967 71 (S)		MONTHLY (B) 1904-16, 1924-84.
		1965 69 (S)		
		ANNUAL (U) 1900, 1910, 1913-14, 1920-21		
3-1952-06		ANNUAL (U) 1900, 1906, 1910, 1912-14, 1920-21	1917 30.66 (U) 1920 28.64 (U)	SEE 3-1952-06Z.
		(B) 1926, 1928-32, 1934-47, 1952-61, 1963-72, 1974-84	1918 31.31 (U) 1926 25.45 (U)	
		MONTHLY (B) 1948-51	1919 30.74 (U)	
			ANNUAL (B) 1929-32, 1934-61, 1963-71, 1974-75, 1977	
			1924 28.80 (U)	
3-1952-07		ANNUAL (B) 1928-29, 1931-32, 1934, 1948-61, 1963-72, 1974-84	ANNUAL (B) 1929-32, 1934-61, 1963-71, 1974-75, 1977	Do.
		MONTHLY (B) 1935-47		
3-1952-08		MONTHLY (B) 1928-34, 1952-84	1910 29.70 (U) 1926 25.46 (U)	Do.
		ANNUAL (B) 1945-51	1924 28.90 (U) (B) 1929-32, 1934-61, 1963-71, 1974-75, 1977	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1952-09	X	1910 122 (U) 1928 121 (U) 1923 114 (U) SEMIANNUAL (B) 1929-32, 1934-45	ANNUAL (U) 1916, 1923, 1926, 1928-29 SEMIANNUAL (B) 1929, 1931, 1934-39, 1942-46 MONTHLY (B) 1940-41	MONTHLY (B) 1929-47.
3-1952-10	X	1910 116 (U) 1915 113 (U) 1911 112 (U) 1916 109 (U) 1914 110 (U) 1928 117 (U) MONTHLY (U) 1912-13 SEMIANNUAL (B) 1931-32, 1934-46	MONTHLY (U) 1910-13, 1915-16 ANNUAL (U) 1918, 1924, 1926, 1928-29 SEMIANNUAL (B) 1929-32, 1934-51	MONTHLY (B) 1932-46.
3-1952-11Z				MONTHLY (B) 1928-84.
3-1952-11		1914 200 (U) 1925 118 (U) 1924 118 (U) 1926 96 (U) ANNUAL (B) 1929-32, 1934-36 MONTHLY (B) 1937-55 BIMONTHLY (B) 1956-84	1923 28.49 (U) 1934 26.72 (U) WEEKLY (U) 1916-18 ANNUAL (B) 1929-32, 1934-51, 1953-56, 1958-61, 1963-65, 1968-71, 1974	SEE 3-1952-11Z.
3-1952-12	X	1924 171 (U) 1945 225 (U) 1927 171 (U) 1972 283 (U) 1928 195 (U) MONTHLY (B) 1929-55 BIMONTHLY (B) 1956-83 ANNUAL (S) 1947, 1957, 1959-60, 1963, 1965, 1967-71	1923 28.20 (U) 1961 23.10 (U) 1928 31.16 (U) ANNUAL (B) 1929-32, 1934-56, 1958-60, 1963-71, 1974-76, 1982-84	MONTHLY (B) 1927-81.
3-1952-13	X	1924 140 (U) 1926 110 (U) 1925 110 (U) 1928 85 (U) ANNUAL (B) 1929, 1931-32, 1934-36 MONTHLY (B) 1937-55 BIMONTHLY (B) 1956-83	1923 28.42 (U) 1928 29.31 (U) 1924 28.19 (U) ANNUAL (B) 1929-32, 1934-51, 1953-56, 1958-61, 1963-65, 1968-71, 1974	SEE 3-1952-11Z.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1952-14	X	1923 257 (U) 1947 410 (S) MONTHLY (U) 1924-68 (B) 1924-55 BIMONTHLY (B) 1956-74	1923 28.22 (U) MONTHLY (U) ANNUAL (B) 1924-68 1929-32, 1934-61, 1963-72, 1974-82, 1984	MONTHLY (B) 1929-74.
3-1952-15	X	1926 126 (U) 1928 114 (U) ANNUAL (B) 1929-32, 1934-44, 1946-61, 1963-72, 1974-81	1925 27.76 (U) ANNUAL (B) 1928 30.41 (U) 1929-32, 1934-44, 1947-52, 1955-58, 1963-69	MONTHLY (B) 1929-81.
3-1952-16	X	1926 79 (U) ANNUAL (B) 1928-29, 1931-32, 1934-61, 1963-72, 1974-84	1926 25.59 (U) ANNUAL (B) 1927 26.00 (U) 1929-30, 1932, 1935-61, 1963-71, 1974-75, 1977	SEE 3-1952-062.
3-1952-17	X	1926 88 (U) ANNUAL (B) 1928-29, 1931-32, 1934-61, 1963-72, 1974-84	1927 26.07 (U) ANNUAL (B) 1929-32, 1935-61, 1963-71, 1974-75, 1977	Do.
3-1952-18	X	ANNUAL (B) 1928-29, 1931-32, 1934-61, 1963-66, 1968-71, 1974-75, 1977	1927 25.89 (U) ANNUAL (B) 1929-30, 1932, 1935-61, 1963-66, 1968-71, 1974-75, 1977	Do.
3-1952-19	X	ANNUAL (B) 1928-29, 1931-32, 1934-61, 1963-72, 1974-84	1927 25.98 (U) ANNUAL (B) 1929-30, 1932, 1935-57, 1959-61, 1963-71, 1974-75, 1977	Do.
3-1952-20	X	1927 76 (U) ANNUAL (B) 1929, 1931-32, 1934-36 MONTHLY (B) 1937-55 BIMONTHLY (B) 1956-84 ANNUAL (S) 1947, 1957, 1963, 1965, 1967-72	ANNUAL (B) 1929-32, 1934-51, 1953-56, 1958-61, 1963-65, 1968-71, 1974	SEE 3-1952-112.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1952-21	X	1927 ANNUAL 76 (U) (B) 1929, 1931-32, 1934-36 MONTHLY (B) 1937-55 BIMONTHLY (B) 1956-84	1927 ANNUAL 27.58 (U) (B) 1929-32, 1934-51, 1953, 1955-56, 1958-61, 1963-65, 1968-71, 1974	SEE 3-1952-112.
3-1952-22	X	MONTHLY (B) 1928-43 ANNUAL (B) 1944-61, 1963-72, 1974-84	1927 ANNUAL 25.93 (U) (B) 1929-30, 1932, 1935-61, 1963-71, 1974-75, 1977	SEE 3-1952-062.
3-1952-23	X	1939 1,380 (U)	1939 1.51 (U)	
3-1952-24	X	1947 15,900 ppm (B)		
3-1952-25	X	1947 17,000 ppm (B)		
3-1952-26	X	BRACKISH WATER		
3-1952-27	X	BRACKISH WATER		
3-1952-28	X	BRACKISH WATER		
3-1952-29	X			
3-1952-31	X	BRACKISH WATER		
3-1952-32	X	1957 17,000 ppm (U)		
3-1952-33	X	1957 18,500 ppm (U)		
3-1952-34	X	1959 18,900 ppm (D)		
3-1952-35	X	1960 11,600 ppm (U) 1966 14,000 ppm (U) 1967 5,660 ppm (U)		
3-1952-36	X	1967 16,300 ppm (U) 1969 16,500 ppm (U)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F I T L E O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1952-38		ANNUAL (U) 1910, 1914, 1926, 1928, 1972, 1975 MONTHLY (B) 1929-55 BIMONTHLY (B) 1956-70 ANNUAL (B) 1971-72, 1974-75 (S) 1941, 1947, 1957, 1962, 1965, 1967-68	1916 30.84 (U) 1926 24.89 (U) 1917 31.18 (U) 1928 30.19 (U) 1923 29.03 (U) 1954 25.55 (U) ANNUAL (B) 1929-32, 1934-46, 1948-56, 1958-61, 1963-72, 1974-84 MONTHLY (U) 1973-81	MONTHLY (B) 1929-70.
3-1953-01	X	1926 226 (U) 1928 216 (U) MONTHLY (U) 1915-16, 1920-21 SEMIANNUAL (B) 1929-30, 1969-72, 1974 MONTHLY (B) 1931-49 ANNUAL (S) 1946, 1962, 1965, 1967-68, 1970-72	1925 27.80 (U) 1928 30.37 (U) 1926 24.97 (U) 1915-21, 1923-24 MONTHLY (U) 1915-21, 1923-24 ANNUAL (B) 1929-32, 1934-39, 1942-61, 1963-72, 1974-75 MONTHLY (B) 1940-41	MONTHLY (B) 1929-49.
3-1953-02	X	SALTWATER		
3-1958-01		1930 14,600 ppm (U)		
3-1959-01		1939 1,160 (U)		
3-1959-02		1939 1,110 (U)		
3-1959-03	X	1940 1,030 (U)		
3-1959-04	X	1941 1,010 (U)		
3-1959-05	X	1966 17,200 ppm (U) 1968 17,400 ppm (U) 1975 17,800 ppm (U)	CONTINUOUS (U) 1966-84	
3-1959-06	X	1968 18,400 ppm (U)	1975 1.06 (U)	
3-1959-07	X			

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILE L I E O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2000-01		1972 520 (U) WEEKLY (O) 1930-63 MONTHLY (O) 1972-74, 1976-82 ANNUAL (B) 1947-65 (B) 1966-75, 1978, 1983	1932 1.62 (O) 1933 1.93 (O) MONTHLY (O) 1935-56 SEMIMONTHLY (O) 1957-58, 1960-63 DAILY (O) 1959, 1966-68	MONTHLY (O) 1934-84.
3-2000-02		1940 1,040 (U)		
3-2000-03	X	1957 564 (U)		
3-2000-04	X	1957 615 (U)		
3-2000-05	X	1957 565 (U)		
3-2001-01		1965 898 (S) WEEKLY (O) 1930-63 MONTHLY (O) 1972-74, 1976-82 ANNUAL (B) 1947-66 (B) 1967-84	1932 1.74 (O) 1933 2.08 (O) MONTHLY (O) 1935-56 SEMIMONTHLY (O) 1957-63 DAILY (O) 1966-68	MONTHLY (O) 1934-84.
3-2002-01Z				MONTHLY (O) 1940-46.
3-2002-01		1966 792 (U) ANNUAL (O) 1910, 1912-13, 1915-19 SEMIANNUAL (O) 1920-24 MONTHLY (O) 1926-30 WEEKLY (O) 1931-46	1966 5.75 (U)	MONTHLY (O) 1915-39.
3-2002-02Z		SEMIANNUAL (O) 1908-25 MONTHLY (O) 1926-35, 1939		MONTHLY (O) 1928-35, 1939.
3-2002-02		1926 883 (O)		SEE 3-2002-01Z AND 3-2002-02Z.
3-2002-03	X	1926 1,410 (O) WEEKLY (O) 1931-44	1944 16.61 (D)	MONTHLY (O) 1928-39.
3-2002-04	X	1926 1,500 (O)		SEE 3-2002-01Z AND 3-2002-02Z.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT OBSERVATION	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2002-05Z	X	ANNUAL (O) 1893, 1897, 1905, 1907-09, 1913-23 MONTHLY (O) 1927-30 WEEKLY (O) 1931-44	1944 14.79 (D)	MONTHLY (O) 1928-39.
3-2002-06	X	1926 696 (D) 1944 1,790 (U)	1944 14.81 (D)	Do.
3-2002-07Z		1926 1,140 (D)		SEE 3-2002-01Z AND 3-2002-07Z.
3-2002-08		1926 1,140 (D) 1942 2,100 (U)	1942 13.26 (U)	Do.
3-2002-09	X	1941 400 (U)		
3-2002-10	X	1944 2,980 ppm (D)		
3-2004-01	X	1933 488 (A)	1933 19.20 (U)	
3-2004-02	X	1937 245 (U) 1947 230 (U) 1945 241 (U)		
3-2004-03	X	1942 243 (U)	1941 16.71 (U) 1957 15.94 (U) 1942 15.00 (U)	
3-2004-04	X	1981 248 (B) 1982 233 (U)	1981 14.80 (B)	
3-2005-01		BRACKISH WATER		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2006-01Z		1911 104 (P) 1972 501 (U)		
3-2006-01ZZ		SEMIANNUAL (O) 1910, 1914-25 MONTHLY (O) 1926-30 WEEKLY (O) 1931-63 MONTHLY (O) 1972-74, 1976-80 QUARTERLY (B) 1947-68 (B) 1969-83	BIMONTHLY (O) 1927-31 MONTHLY (O) 1932-56 SEMIMONTHLY (O) 1957-63 DAILY (O) 1959, 1966-68	MONTHLY (O) 1909-82.
3-2006-01		1910 344 (U) 1913 538 (U) 1911 352 (U) 1914 388 (U) 1912 357 (U)	SEE 3-2006-01ZZ	SEE 3-2006-01ZZ.
3-2006-02		1910 396 (U) 1913 528 (U) 1911 368 (U) 1914 484 (U) 1912 362 (U)	do.	Do.
3-2006-03		1910 457 (U) 1913 566 (U) 1911 484 (U) 1914 508 (U) 1912 527 (U)	do.	Do.
3-2006-04Z		SEMIANNUAL (O) 1905, 1908-10, 1914-25 MONTHLY (O) 1926-30 WEEKLY (O) 1931-68 MONTHLY (O) 1972-82 QUARTERLY (B) 1947-68 ANNUAL (U) 1936, 1953-60	1937 14.59 (U) 1939 14.33 (U) 1937 13.98 (U) BIMONTHLY (O) 1909-27 MONTHLY (O) 1928-56 SEMIMONTHLY (O) 1957-71 DAILY (O) 1959-60, 1963, 1966-68	MONTHLY (O) 1908-84.
3-2006-04	X	1910 502 (U) 1913 652 (U) 1911 520 (U) 1914 596 (U) 1912 692 (U)	SEE 3-2006-04Z	SEE 3-2006-04Z.
3-2006-05	X	1910 582 (U) 1913 661 (U) 1911 605 (U) 1914 604 (U) 1912 606 (U)	do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	TEST DATE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2006-06	X	1910 440 (U) 1911 502 (U) 1912 491 (U)	SEE 3-2006-04Z	SEE 3-2006-04Z.
3-2006-07		1910 526 (U) 1911 558 (U) 1912 641 (U)	do.	Do.
3-2006-08Z		SEMIANNUAL (O) 1913-25 MONTHLY (O) 1926-30 WEEKLY (O) 1931-63 MONTHLY (O) 1972-74, 1976-82 MONTHLY (B) 1947-68 QUARTERLY (B) 1969-83	MONTHLY (O) 1929-56 SEMIMONTHLY (O) 1957-63 DAILY (O) 1959, 1966-68	MONTHLY (O) 1913-83.
3-2006-08ZZ		QUARTERLY (B) 1947-59		MONTHLY (O) 1929-35, 1938-84.
3-2006-08		SEE 3-2006-01Z, 3-2006-08Z, AND 3-2006-08ZZ	SEE 3-2006-08Z	SEE 3-2006-08Z AND 3-2006-08ZZ.
3-2006-09		do.	do.	Do.
3-2006-10	X	3-2006-01Z AND 3-2006-01ZZ	SEE 3-2006-01ZZ	SEE 3-2006-01ZZ.
3-2006-11	X	SEE 3-2006-01Z, 3-2006-08Z AND 3-2006-08ZZ	SEE 3-2006-08Z	SEE 3-2006-08Z AND 3-2006-08ZZ.
3-2006-12	X	1938 332 (U) MONTHLY (U) 1953-73	1938 17.00 (U) MONTHLY (U) 1953-73	
3-2007-01	X	1938 488 (U) MONTHLY (U) 1939-67	1938 6.50 (U) MONTHLY (U) 1939-67	
3-2047-03	X		1968 540.94 (B) 1970 537.25 (B)	
3-2047-04	X	1970 15 (U)	1968 540.89 (B) 1970 523.08 (B)	
3-2047-05	X	1968 14 (B) 1970 14 (U)	1970 426.00 (B)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT LOG	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2052-01	X		1916 30.93 (U) 1930 29.80 (B) 1924 29.40 (U) 1931 29.08 (B) 1926 25.05 (U) 1932 30.43 (B) 1929 26.69 (U)	
3-2052-02	X	1900 81 (U)	1916 31.00 (U) 1918 31.67 (U) 1917 32.15 (U) 1919 32.00 (U)	
3-2052-03	X	1900 114 (U) MONTHLY (B) 1932-36 SEMIANNUAL (B) 1929, 1937-41	1916 30.80 (U) 1918 31.34 (U) 1917 30.50 (U) 1929 26.43 (U) ANNUAL (B) 1929-31, 1934-37, 1940-42, 1946	
3-2052-04		1900 86 (U) 1910 76 (U) 1908 77 (U)	1916 30.65 (U) 1924 28.74 (U) CONTINUOUS (U) 1926-27	
3-2052-05		1910 128 (U)	1919 30.90 (U) 1928 30.84 (U) 1926 24.87 (U)	
3-2052-06	X	1900 65 (U) 1926 84 (U)	1924 28.79 (U) 1928 30.61 (U) 1926 24.84 (U) CONTINUOUS (U) 1929-32 DAILY (B) 1929-58	MONTHLY (B) 1923-27.
3-2052-07	X	ANNUAL (B) 1929, 1931-32, 1934-44, 1947-51, 1980-84 BIMONTHLY (B) 1952-75 ANNUAL (S) 1947, 1955-56, 1958, 1962, 1967-68, 1971	CONTINUOUS (U) 1927-28 ANNUAL (B) 1929, 1931-32, 1934-37, 1939-45, 1948, 1959, 1963-71	MONTHLY (B) 1929-84.
3-2052-08	X	1962 63 (U) MONTHLY (B) 1936-39, 1946-84 ANNUAL (B) 1940-45	ANNUAL (B) 1939-42, 1946, 1958, 1963-71, 1975	MONTHLY (B) 1937-84.
3-2052-09	X	1972 100 (U)	1942 24.54 (B)	
3-2052-10	X		DAILY (B) 1959-84	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDES	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2052-11	X	1977 100 (U) (B) 1978-84		
3-2052-12			1981 21.78 (B) 1983 23.20 (B) 1982 23.81 (B) 1984 20.34 (B)	
3-2053-01	X	1900 72 (U) 1910 68 (U)		
3-2053-02	X	1910 60 (U) 1928 56 (U) 1927 59 (U) MONTHLY (B) 1929-32, 1934-59	1898 28.80 (P) 1928 25.62 (U) 1923 27.40 (U) 1959 23.37 (U) 1927 24.37 (U) SEMIANNUAL (B) 1929-32, 1934-54, 1959	MONTHLY (B) 1929-57.
3-2053-03		1900 89 (U) 1910 80 (U) SEMIANNUAL (B) 1929-32, 1934-35 MONTHLY (B) 1936-46	1919 28.52 (U) 1926 23.24 (U) 1923 26.29 (U) 1927 24.59 (U) SEMIANNUAL (B) 1929-32, 1934-54	MONTHLY (B) 1929-46.
3-2053-04	X	1910 68 (U)	1919 26.45 (U) 1928 29.54 (U)	
3-2053-05		ANNUAL (U) 1900, 1909-10, 1917 MONTHLY (U) 1920-21, 1923-26 (B) 1931, 1948-55 BIMONTHLY (B) 1956-75 ANNUAL (B) 1976-79, 1981, 1983-84 (S) 1957, 1962, 1965, 1967, 1970	WEEKLY (U) 1916-26 CONTINUOUS (U) 1927-32 WEEKLY (B) 1927-46 ANNUAL (B) 1948, 1950, 1955, 1957-59, 1961, 1963-72, 1974-76, 1979-81, 1983-84	MONTHLY (B) 1947-84.
3-2053-06		1910 65 (U) 1928 70 (U) 1927 70 (U) MONTHLY (B) 1929-32, 1934-59	1923 27.20 (U) 1934 22.73 (U) 1927 23.88 (U) 1959 24.18 (U) 1928 25.51 (U) SEMIANNUAL (B) 1929-32, 1934-47, 1950	MONTHLY (B) 1929-58.
3-2053-07			1938 28.05 (B)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F I L L I N G O I L S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2053-08	X	ANNUAL (U) 1910-11, 1924, 1926, 1928, 1972	1919 28.66 (U) 1926 22.83 (U) 1924 28.16 (U) 1928 27.15 (U)	MONTHLY (B) 1929-56.
		MONTHLY (U) 1912-15	MONTHLY (U) 1910-15	
		BIMONTHLY (B) 1929-32, 1934-55 1956-72, 1974	ANNUAL (B) 1929-32, 1934-61, 1963-72, 1975-84	
3-2053-09		ANNUAL (U) 1900, 1910, 1924, 1926-27, 1929, 1972	1924 27.95 (U) 1929 27.23 (U) 1926 23.29 (U) 1957 23.55 (U)	MONTHLY (B) 1929-84.
		MONTHLY (B) 1929-32, 1934-55	1927 25.37 (U)	
		BIMONTHLY (B) 1956-84	ANNUAL (B) 1929-32, 1934-43, 1946-66, 1968-71, 1974-76	
		ANNUAL (S) 1947, 1954, 1956, 1958, 1960, 1962, 1965, 1967-72		
3-2053-10	X X	ANNUAL (U) 1915, 1923, 1926, 1928, 1968-70, 1972	1915 28.00 (U) 1927 24.66 (U) 1923 27.26 (U) 1928 27.81 (U)	MONTHLY (B) 1915-16, 1927-84.
		MONTHLY (U) 1916, 1920-21	1926 23.48 (U)	
		ANNUAL (B) 1929-32, 1934-35, 1978-81, 1983-84	MONTHLY (U) 1916-21	
		MONTHLY (B) 1936-55	ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-76, 1979-84	
		BIMONTHLY (B) 1956-77		
3-2053-11	X	ANNUAL (U) 1960, 1966-67, 1970, 1972	1960 21.37 (U)	
		BIMONTHLY (B) 1968-74	ANNUAL (B) 1968-71, 1974-79, 1982	
		ANNUAL (B) 1975-76, 1978-84		
3-2053-12	X X	1966 2,750 ppm (U) 1968 2,300 ppm (S) 1969 2,850 ppm (U)	1969 21.33 (U)	MONTHLY (B) 1968-70.
		ANNUAL (B) 1967-72, 1974	ANNUAL (B) 1968-72, 1974-82, 1984	
		ANNUAL (U) 1909-10, 1912-14, 1918-20	SEMIANNUAL (B) 1929-32, 1934-35, 1937-42	MONTHLY (B) 1929-42.
		MONTHLY (B) 1929-42		
3-2054-02	X	1959 188 (U)	MONTHLY (B) 1963-64.	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L E E T O I S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2054-03		1965 339 (U) 1973 569 (U)	MONTHLY (U) 1974-84	MONTHLY (B) 1965-73.
		1969 350 (U) 1974 508 (U)	ANNUAL (B) 1965-72, 1974-84	
		1972 552 (U)		
		ANNUAL (B) 1965-71		
		BIMONTHLY (B) 1972-74		
3-2055-01		ANNUAL (U) 1902, 1910, 1912-14, 1918-20	SEMIANNUAL (B) 1929, 1934-41	MONTHLY (B) 1929-34.
		MONTHLY (B) 1929-34, 1937-38		
3-2055-02	X		1940 18.07 (B)	
3-2056-01	X	1902 843 (U) 1919 1,530 (U)	1934 17.55 (B)	
		1910 868 (U) 1920 1,770 (U)	WEEKLY (B) 1935-36	
		1918 1,810 (U)		
3-2056-02	X			
3-2056-03	X	1910 1,250 ppm (U)	1932 21.94 (B)	
		1918 1,620 ppm (U)	1939 23.59 (B)	
		1919 1,630 ppm (U)		
		1920 1,550 ppm (U)		
		1932 2,910 ppm (B)		
3-2057-01	X	1902 1,930 ppm (U)		
3-2057-02	X	1902 811 ppm (U)		
		1913 2,640 ppm (U)		
		1914 3,060 ppm (U)		
		1918 3,780 ppm (U)		
		1919 3,710 ppm (U)		
	1920 3,990 ppm (U)			
3-2057-03	X			
3-2057-04	X			
3-2059-01	X	1902 6,600 ppm (U)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L L O I S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2059-02		1939 1,060 (U)		
3-2059-03	X	1940 951 (U)		
3-2059-04	X	1940 1,020 (U)		
3-2059-05	X	1940 1,090 (U)		
3-2059-06	X	1940 1,090 (U)		
3-2059-07		1941 1,100 (U)		
3-2059-08		1941 1,180 (U)		
3-2059-09		1941 1,030 (U)		
3-2059-10	X	1941 1,220 (U)		
3-2059-11	X	1941 1,030 (U)		
3-2100-01	X			
3-2100-02	X			
3-2101-01	X	ANNUAL (U) 1910, 1930, 1941-42, 1945, 1947-48, 1950-60, 1962-63	1939 21.12 (U) 1947 13.91 (U) 1942 17.96 (U) 1951 20.90 (U) 1943 20.08 (U) 1957 18.53 (U) 1944 17.63 (U) 1958 19.79 (U) 1945 13.21 (U)	MONTHLY (B) 1976-84.
3-2101-02				MONTHLY (C) 1902-05.
3-2101-03	X X	1910 280 (U) 1911 296 (U) MONTHLY (U) 1912-16, 1920-21, 1923-60 WEEKLY (U) 1961-67 MONTHLY (U) 1968-75, 1978-80	MONTHLY (U) 1910-21, 1923-60 WEEKLY (U) 1961-67 MONTHLY (U) 1968-84	
3-2101-04	X			

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FT L E S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2101-05Z		ANNUAL (U) 1890-91, 1905, 1907-25 MONTHLY (O) 1926-30 WEEKLY (O) 1931-52 MONTHLY (B) 1947-49	ANNUAL (O) 1890, 1902, 1904, 1906-09 BIMONTHLY (O) 1910-25 MONTHLY (O) 1926-56 SEMIANNUAL (O) 1957-58	MONTHLY (O) 1901-50. SEE 3-2101-05Z.
3-2101-05		SEE 3-2101-05Z	SEE 3-2101-05Z	
3-2101-06		do.	do.	Do.
3-2101-07		do.	do.	Do.
3-2101-08		do.	do.	Do.
3-2101-09		1943 2,210 ppm (U) 1944 1,520 ppm (U) 1947 4,170 ppm (U) 1948 298 ppm (U) 1968 840 ppm (U)	1952 13.15 (U) SEMIMONTHLY (O) 1957-58, 1960-63 DAILY (O) 1959, 1966-68 WEEKLY (U) 1958 CONTINUOUS (U) 1967-73	Do.
3-2101-10	X	SEE 3-2101-05Z	SEE 3-2101-05Z	Do.
3-2101-11	X	do.	1952 14.00 (U)	Do.
3-2101-12		do.	SEE 3-2101-05Z	Do.
3-2101-13	X X	1955 150 (U) 1959 169 (U) 1956 185 (U) 1960 174 (U) 1957 181 (U) 1962 168 (U) 1958 180 (U) 1963 172 (U)	1955 22.57 (U) 1958 19.77 (U)	
3-2102-01				
3-2102-02Z		ANNUAL (U) 1943-44, 1947-48, 1950-60, 1963		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L O I G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2102-02ZZ		ANNUAL (O) 1893, 1905, 1907-19 SEMIANNUAL (O) 1920-24 MONTHLY (O) 1925-30 WEEKLY (O) 1931-63 MONTHLY (O) 1972-74, 1976-82 QUARTERLY (B) 1947-68 (B) 1969-83	SEMIANNUAL (O) 1902, 1904, 1906-09 BIMONTHLY (O) 1910-22, 1927-44, 1948-56 SEMIMONTHLY (O) 1957-58, 1963 DAILY (O) 1959, 1966-68	MONTHLY (O) 1901-83.
3-2102-02		SEE 3-2102-02Z AND 3-2102-02ZZ	SEE 3-2102-02ZZ	SEE 3-2102-02ZZ.
3-2102-03				
3-2102-04		SEE 3-2102-02Z AND 3-2102-02ZZ	SEE 3-2102-02ZZ	SEE 3-2102-02ZZ.
3-2102-05		do.	do.	Do.
3-2102-06	X	do.	do.	Do.
3-2102-07	X	do.	do.	Do.
3-2102-08		do.	do.	Do.
3-2102-09		do.	do.	Do.
3-2102-10		do.	do.	Do.
3-2102-11Z		ANNUAL (O) 1905, 1907-19 SEMIANNUAL (O) 1920-24 MONTHLY (O) 1925-30 WEEKLY (O) 1931-63 MONTHLY (O) 1972-74, 1976-82 QUARTERLY (B) 1947-68 (B) 1969-82	BIMONTHLY (O) 1927-44, 1948-56 SEMIMONTHLY (O) 1957-58, 1963 DAILY (O) 1959, 1966-68	MONTHLY (O) 1901-83.
3-2102-11		SEE 3-2102-02Z AND 3-2102-11Z	SEE 3-2102-11Z	SEE 3-2102-011Z.
3-2102-12		SEE 3-2102-02Z AND 3-2102-02ZZ	SEE 3-2102-02ZZ	SEE 3-2102-02ZZ.
3-2102-13		do.	do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2102-14	X	SEE 3-2102-02Z AND 3-2102-02ZZ	SEE 3-2102-02ZZ	SEE 3-2102-02ZZ.
3-2102-15	X	do.	do.	Do.
3-2102-16	X	SEE 3-2102-02Z AND 3-2102-11Z	SEE 3-2102-11Z	SEE 3-2102-11Z.
3-2102-17	X	do.	do.	Do.
3-2102-18	X	do.	do.	Do.
3-2102-19	X	do.	do.	Do.
3-2102-20	X	do.	do.	Do.
3-2102-21	X	do.	do.	Do.
3-2102-22	X	do.	do.	Do.
3-2103-01	X	1942 188 (U) 1953-67 MONTHLY	1942 16.70 (U) 1953-65, 1973-84 MONTHLY (U) 1966-72 CONTINUOUS (U) 1956, 1958-59 WEEKLY (B)	
3-2103-02	X	MONTHLY (U) 1942-78	MONTHLY (U) 1942-78 WEEKLY (B) 1956, 1958-59	
3-2103-03		1966 196 (N) 1968 208 (U) 1967 196 (U) MONTHLY (N) 1952-62 (U) 1973-84 DAILY (N) 1976-84	1952 13.04 (B) DAILY (N) 1976-84 MONTHLY (U) 1973-84	ANNUAL (N) 1943-55. MONTHLY (B) 1956-61. (N) 1961-84.
3-2104-01				MONTHLY (B) 1981-84.
3-2107-01	X	1955 492 (U)	1955 3.18 (U)	
3-2107-02	X	1956 5,150 ppm (U)	1956 2.13 (U)	
3-2107-03	X	1956 5,530 ppm (U)	1956 1.77 (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILE NO. S/GWT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2107-04	X	1956 378 (U)	1956 5.85 (U)	
3-2107-05	X	1956 3,310 ppm (U)	1956 1.96 (U)	
3-2107-06	X	1958 2,310 (U)	1958 2.54 (U)	
3-2148-01Z				MONTHLY (B) 1927-84.
3-2148-01				SEE 3-2148-01Z.
3-2148-02				Do.
3-2149-01Z				MONTHLY (B) 1929-84.
3-2149-01				SEE 3-2149-01Z.
3-2149-02				Do.
3-2153-01		1910 62 (U) SEMIANNUAL (B) 1929-32, 1934-35 MONTHLY (B) 1936-58	1928 26.48 (U) SEMIANNUAL (B) 1929-32, 1934-36, 1940-41, 1946-58	MONTHLY (B) 1929-58.
3-2153-02	X	1910 86 (U) MONTHLY (U) 1912-16, 1920-21, 1923-84 ANNUAL (B) 1929-32, 1934-57 (B) 1959, 1965-72, 1974, 1977, 1979-84	MONTHLY (U) 1910-21, 1923-74, 1977-84 ANNUAL (B) 1929-32, 1934-61, 1963-72, 1974-84	MONTHLY (B) 1929-56, 1964-84.
3-2153-03	X	1909 64 (U) 1910 69 (U)	1928 26.06 (U)	
3-2153-04	X	1909 85 (U) 1910 68 (U) SEMIANNUAL (B) 1929-32, 1934-35, 1949-53, 1955 MONTHLY (B) 1936-48	1961 22.70 (U) ANNUAL (B) 1935, 1937-43, 1949, 1958-59, 1963-68	MONTHLY (B) 1929-51.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHTS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2153-05		ANNUAL (U) 1913, 1915, 1920, 1928-31 SEMIANNUAL (B) 1926, 1928, 1954-56 MONTHLY (B) 1929-32, 1934-41, 1943-48	1928 27.56 (U) 1930 25.73 (U) 1929 26.26 (U) 1931 26.69 (U) CONTINUOUS (U) 1981-84 ANNUAL (B) 1929-41, 1945-46, 1949-50, 1953, 1955-61, 1963-72, 1974-77, 1979, 1981-84	MONTHLY (B) 1929-45, 1954-56.
3-2153-06	X	1954 98 (S) 1957 80 (S) 1955 103 (S) ANNUAL (B) 1929-32, 1934-35 MONTHLY (B) 1936-55 BIMONTHLY (B) 1956-69	ANNUAL (B) 1929-32, 1934-58, 1960-61, 1963-69	MONTHLY (B) 1929-67.
3-2153-07Z		BIMONTHLY (B) 1971-77		MONTHLY (B) 1945-84.
3-2153-07	X X X	ANNUAL (U) 1945, 1966-70, 1972 MONTHLY (B) 1947-55 BIMONTHLY (B) 1956-70 ANNUAL (B) 1971, 1980-84	1945 21.65 (U) ANNUAL (B) 1948-61, 1963-69, 1971, 1978-84	SEE 3-2153-07Z.
3-2153-08	X	1945 60 (U) ANNUAL (B) 1948-61, 1963-71, 1974-75, 1980-84	1945 21.45 (U) ANNUAL (B) 1947-61, 1963-69, 1971, 1974-76, 1978-83	Do.
3-2153-09	X	1945 103 (U)	1945 20.42 (U) DAILY (B) 1945-84	
3-2153-10Z				MONTHLY (B) 1974-84.
3-2153-10	X	MONTHLY (B) 1973, 1975-77, 1980-84	1975 20.07 (B) 1979 19.75 (B) 1977 17.40 (B) 1980 19.78 (B) 1978 17.00 (B) 1984 17.73 (B)	SEE 3-2153-10Z.
3-2153-11	X	1973 100 (U) 1981 83 (U) MONTHLY (B) 1973, 1975, 1977-84	1975 20.00 (B) 1980 19.58 (B) 1976 19.00 (B)	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	F L O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2153-12	X	MONTHLY (B) 1975-84	1975 20.00 (B) 1976 18.80 (B)	SEE 3-2153-10Z.
3-2154-01	X	1910 68 (U) 1944 68 (S) MONTHLY (B) 1929-32, 1934-55 BIMONTHLY (B) 1956-75 ANNUAL (B) 1977-84	1966 21.53 (U) ANNUAL (B) 1929, 1932-59, 1963-72, 1974-84	MONTHLY (B) 1929-65, 1976-84.
3-2155-01	X X	ANNUAL (U) 1908-14, 1918-20, 1933	1933 23.60 (U)	
3-2155-02	X X	ANNUAL (U) 1908-14, 1918-20, 1933	1933 23.66 (U)	
3-2155-03		1908 1,250 (U) 1909 946 (U) 1910 1,560 (U)	1939 24.47 (U)	
3-2155-04	X	ANNUAL (U) 1941, 1966-68, 1970 MONTHLY (B) 1944-55 BIMONTHLY (B) 1956-77 (U) 1972-77	1941 23.00 (U) 1941 23.24 (B)	MONTHLY (B) 1943-77.
3-2155-05	X	1968 344 (U) 1952 925 (U) 1956 902 (U) 1957 1,010 (U)	1948 21.06 (U)	
3-2156-01	X X	ANNUAL (U) 1902, 1908-14, 1916, 1918-20		
3-2156-02	X	ANNUAL (U) 1908-14, 1918-20, 1933	1933 23.04 (U)	
3-2156-03	X	1908 405 (U) 1910 416 (U) 1911 343 (U) 1912 384 (U) 1913 416 (U)	1933 20.70 (U) 1939 22.60 (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILED	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2156-04				
3-2157-01		1902 385 (U) 1908 582 (U) 1910 603 (U) 1927 1,720 (U)	1928 22.02 (U) 1929 20.48 (U) 1930 19.46 (U)	
3-2157-02	X	ANNUAL (U) 1902,1908,1910, 1927-31,1945,1955, 1960,1972	1928 21.97 (U) 1929 20.52 (U) 1930 19.51 (U)	
3-2157-032		1900 146 (U) 1901 186 (U) 1902 199 (U) 1904 216 (U) 1905 262 (U)		
3-2157-03		SEE 3-2157-032		
3-2157-04	X	1938 18,900 ppm (U)		
3-2158-01		ANNUAL (U) 1930,1941-44, 1952-59,1962-63,1966	1930 21.17 (U) 1931 22.18 (U) 1932 22.48 (U) 1941 20.11 (U) CONTINUOUS (U) 1942-72	
3-2158-02		1943 1,610 (U) 1944 1,570 (U)	1943 18.25 (U)	
3-2200-01		1930 2,000 (U)		
3-2200-02				
3-2200-03		ANNUAL (U) 1942-45, 1947-48, 1950, 1952-60, 1962-63 MONTHLY (U) 1972, 1974-79	1953 18.45 (U) CONTINUOUS (U) 1966-70 MONTHLY (U) 1974-79	
3-2200-04	X	1930 385 (U)	1931 21.00 (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L I O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2201-01		ANNUAL (U) 1930, 1942-45, 1947-60, 1962-63, 1965	ANNUAL (U) 1939, 1942-45, 1947-54, 1956-60, 1962-63	
3-2201-02		ANNUAL (U) 1910, 1930, 1942-45, 1947-60, 1962-63	ANNUAL (U) 1931-32, 1942-45, 1947-60, 1963	
3-2201-03Z		ANNUAL (O) 1905, 1907-15 SEMIANNUAL (O) 1916-25 MONTHLY (O) 1926-30 WEEKLY (O) 1931-63 MONTHLY (O) 1972-74, 1976-82 QUARTERLY (B) 1947-68 ANNUAL (B) 1969-84 ANNUAL (U) 1942-45, 1947-60, 1962-63, 1982	BIMONTHLY (O) 1910-21, 1925 MONTHLY (O) 1926-56 SEMIMONTHLY (O) 1957-58, 1960-63 DAILY (O) 1959, 1966-68	MONTHLY (O) 1901-84.
3-2201-03		SEE 3-2201-03Z	SEE 3-2201-03Z	SEE 3-2102-03Z.
3-2201-04		do.	do.	do.
3-2201-05Z		ANNUAL (O) 1905, 1907, 1909-10, 1912-15 SEMIANNUAL (O) 1916-24 MONTHLY (O) 1925-30 WEEKLY (O) 1931-59 ANNUAL (U) 1954-58	MONTHLY (O) 1927-56 WEEKLY (O) 1957-59	MONTHLY (O) 1902-59.
3-2201-05		SEE 3-2201-05Z	1961 16.30 (U)	SEE 3-2201-05Z.
3-2201-06	X	1926 407 (D) ANNUAL (U) 1930, 1938, 1942-60, 1962-63	ANNUAL (U) 1938, 1942-60, 1962-63	
3-2201-07	X	SEE 3-2201-03Z	SEE 3-2201-03Z	SEE 3-2102-03Z.
3-2201-08	X	SEE 3-2201-05Z	1961 16.30 (U)	SEE 3-2201-05Z.
3-2201-09	X	1945 203 (U) 1947 202 (U)	DAILY (B) 1945-49	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2201-10	X	1949 166 (U) 1968 170 (U)	1949 18.54 (U) DAILY (B) 1949-84	
3-2201-11	X X	ANNUAL (U) 1954-60, 1962-65, 1966, 1978	1954 17.54 (U) 1959 19.29 (U) 1956 20.94 (U) 1960 16.54 (U) 1957 19.04 (U) 1962 15.44 (U) 1958 20.27 (U) 1963 16.64 (U)	
3-2201-12	X X	1955 202 (U) 1960 166 (U) 1956 200 (U) 1962 132 (U) 1957 200 (U) 1963 144 (U) 1958 175 (U)	1955 24.18 (U)	
3-2201-13	X	1959 164 (U) 1963 157 (U) 1960 166 (U) 1966 173 (U) 1962 147 (U)	1959 18.58 (U)	
3-2201-14	X X	1969 94 (B)		MONTHLY (B) 1970-84.
3-2202-01	X	ANNUAL (U) 1910, 1930, 1938, 1942-45, 1947-48, 1950-60, 1962-63	ANNUAL (U) 1924, 1939, 1942-48, 1956, 1958-60, 1962-63	
3-2202-02	X X	ANNUAL (U) 1930, 1938, 1942-45, 1947-60, 1962-63, 1972	ANNUAL (U) 1938, 1942, 1944-45, 1947, 1949-59, 1962	
3-2202-03Z		ANNUAL (U) 1943-44, 1947-48, 1950, 1952-60, 1963, 1982		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F T L L O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2202-03ZZ		1954 157 (S) 1961 260 (S) 1955 150 (S) 1972 148 (U) ANNUAL (O) 1897,1905,1907-15 SEMIANNUAL (O) 1916-24 MONTHLY (O) 1925-30 WEEKLY (O) 1931-63 MONTHLY (O) 1972-74, 1976-82 QUARTERLY (B) 1947-68 (B) 1969-84	BIMONTHLY (O) 1902,1904,1906-25 MONTHLY (O) 1926-56 SEMIMONTHLY (O) 1957-58,1960-63 DAILY (O) 1959,1966-68	MONTHLY (O) 1901-84.
3-2202-03		SEE 3-2202-03Z AND 3-2202-03ZZ	SEE 3-2202-03ZZ	SEE 3-2202-03ZZ.
3-2202-04		do.	do.	Do.
3-2202-05		do.	do.	Do.
3-2202-06		do.	do.	Do.
3-2202-07		do.	do.	Do.
3-2202-08		do.	do.	Do.
3-2202-09Z		1964 145 (S) 1972 151 (U) ANNUAL (O) 1905,1907-15 SEMIANNUAL (O) 1916-24 MONTHLY (O) 1925-30 WEEKLY (O) 1931-63 MONTHLY (O) 1972-74, 1976-82 QUARTERLY (B) 1947-68 (B) 1969-84	MONTHLY (O) 1926-56 SEMIMONTHLY (O) 1957-58,1960-63 DAILY (O) 1959,1966-68	MONTHLY (O) 1901-84.
3-2202-09		SEE 3-2202-03Z AND 3-2202-09Z	SEE 3-2202-09Z	SEE 3-2202-09Z.
3-2202-10		do.	do.	Do.
3-2202-11		do.	do.	Do.
3-2202-12		do.	do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILED OR NOT FILED	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2202-13		SEE 3-2202-05Z AND 3-2202-09Z	SEE 3-2202-09Z	SEE 3-2202-09Z.
3-2202-14		do.	do.	Do.
3-2202-15Z		1954 365 (S) ANNUAL (U) 1942-44, 1947-48, 1950-60, 1963		
3-2202-15ZZZ		1972 315 (U) ANNUAL (O) 1905, 1907-15 SEMIANNUAL (O) 1916-24 MONTHLY (O) 1925-30 WEEKLY (O) 1931-63 MONTHLY (O) 1972-74, 1976-79, 1982 QUARTERLY (B) 1946-68 (B) 1969-84	SEMIANNUAL (O) 1902, 1904, 1906-09 BIMONTHLY (O) 1910-47, 1949-56 SEMIMONTHLY (O) 1957-58, 1961-63 DAILY (O) 1959, 1966-68	MONTHLY (O) 1901-84.
3-2202-15ZZZ		1955 226 (S) 1968 200 (U) 1964 265 (S) 1972 322 (U) WEEKLY (O) 1943-63 MONTHLY (O) 1972-74, 1976-82 QUARTERLY (B) 1946-68 (B) 1969-84		MONTHLY (O) 1923-39, 1954-84.
3-2202-15	X	1978 390 (U)	SEE 3-2202-15ZZ	SEE 3-2202-15ZZZ AND 3-2202-15ZZZ.
3-2202-16	X	SEE 3-2202-15Z, 3-2202-15ZZ, AND 3-2202-15ZZZ	do.	Do.
3-2202-17	X	do.	do.	Do.
3-2202-18	X	do.	do.	Do.
3-2202-19	X	do.	do.	Do.
3-2202-20	X	do.	do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Dahur - Continued

WELL NUMBER	FT L O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2202-21		1941 184 (B) WEEKLY (O) 1937-63 MONTHLY (O) 1972-74, 1976-82 (B) 1947-68 QUARTERLY (B) 1969-84 ANNUAL (U) 1956, 1972, 1978, 1981-82	MONTHLY (O) 1941-56 SEMIMONTHLY (O) 1957-58 DAILY (O) 1966-68 WEEKLY (U) 1958	MONTHLY (O) 1937-84.
3-2202-22	X	ANNUAL (U) 1945-47, 1952, 1954, 1956-60, 1963	1945 13.02 (U) 1949 20.20 (U) 1947 13.99 (U)	
3-2203-01Z		1957 249 (O) 1958 187 (O) SEMIANNUAL (O) 1901-09, 1917, 1919 MONTHLY (O) 1910-16 WEEKLY (O) 1923-47, 1949-53 MONTHLY (O) 1972-82 (B) 1944, 1946-68 QUARTERLY (B) 1969-84 ANNUAL (U) 1942, 1947-48, 1950, 1952-60, 1972	1958 17.80 (O) WEEKLY (O) 1921-27, 1933-34, 1954-57 MONTHLY (O) 1928-32 DAILY (O) 1935, 1939, 1941-46, 1952-53 CONTINUOUS (U) 1937-38, 1967	MONTHLY (O) 1905-84.
3-2203-01		SEE 3-2203-01Z	SEE 3-2203-01Z	SEE 3-2203-01Z.
3-2203-02		do.	do.	Do.
3-2203-03		do.	do.	Do.
3-2203-04		do.	do.	Do.
3-2203-05		do.	do.	Do.
3-2203-06		do.	do.	Do.
3-2205-01		1929 1,140 (U) 1938 461 (U) 1932 987 (U) 1954 640 (B)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2249-01Z				MONTHLY (B) 1926-84.
3-2249-01				SEE 3-2249-01Z.
3-2249-02				Do.
3-2249-03				Do.
3-2249-04				Do.
3-2250-01	X X	1964 18 (B)	1964 636.62 (B)	
3-2253-01	X	1941 77 (U)	1941 21.40 (U)	
3-2253-02			WEEKLY (B) 1943-74 MONTHLY (B) 1975-84	
3-2254-01		1966 82 (N) 1967 72 (N) DAILY (N) 1976-84 MONTHLY (B) 1948-54 (N) 1952-57 DAILY (N) 1976-84	MONTHLY (B) 1948-54 (N) 1952-57 DAILY (N) 1976-84	MONTHLY (B) 1942-60. (N) 1961-84.
3-2254-02	X X		1945 12.12 (U)	
3-2255-01		ANNUAL (U) 1902, 1908, 1910, 1912-14, 1918-20, 1933, 1942	1933 20.79 (U) 1942 19.03 (U) 1939 20.68 (U)	
3-2255-02		ANNUAL (U) 1902, 1908, 1910, 1912-14, 1918-20		
3-2255-03		ANNUAL (U) 1902, 1908-10, 1912-14, 1918, 1920, 1972		
3-2255-04		1908 146 (U)	1918 208 (U)	
3-2255-05	X	1908 125 (U) 1918 156 (U) 1910 125 (U) 1919 170 (U)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILE NO	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2255-06		1908 187 (U) 1914 198 (U) 1910 177 (U) 1918 312 (U) 1912 177 (U) 1919 284 (U) 1913 177 (U) 1970 320 (U)		
3-2255-07Z		1941 360 (B) 1958 249 (O) 1947 210 (N) 1966 54 (N) 1957 582 (O) 1967 96 (N) ANNUAL (O) 1902, 1908, 1910-14, 1916-20, 1947 MONTHLY (O) 1921-36, 1953 ANNUAL (U) 1942-45, 1947, 1953, 1956-57, 1960 MONTHLY (B) 1944-46, 1953-59	1944 19.70 (B) 1958 20.80 (O) 1956 22.55 (U) MONTHLY (O) 1921-22, 1924-25, 1927-34	MONTHLY (O) 1910-16, 1919-46, 1953-67.
3-2255-07	X	SEE 3-2255-07Z	1971 16.60 (U)	SEE 3-2255-07Z.
3-2255-08		do.	SEE 3-2255-07Z	Do.
3-2255-09		do.	1971 17.80 (U)	Do.
3-2255-10		do.	SEE 3-2255-07Z	Do.
3-2255-11		do.	do.	Do.
3-2255-12		do.	do.	Do.
3-2255-13		do.	1971 17.70 (U)	Do.
3-2255-14		do.	1971 17.40 (U)	Do.
3-2255-15		do.	1971 17.60 (U)	Do.
3-2255-16		do.	SEE 3-2255-07Z	Do.
3-2255-17		do.	1971 17.60 (U)	Do.
3-2255-18		do.	1971 17.40 (U)	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2255-19	SEE 3-2255-07Z	1971 17.40 (U)	SEE 3-2255-07Z.
3-2255-20	do.	1971 17.30 (U)	Do.
3-2255-21Z	1941 208 (B) 1957 353 (O) 1954 155 (S) 1958 187 (O) ANNUAL (U) 1948,1950,1952, 1955-60,1963	1958 20.40 (O) SEMIANNUAL (O) 1921,1924-25 MONTHLY (O) 1927-34 WEEKLY (O) 1953-57 ANNUAL (B) 1944-46,1948-54	MONTHLY (O) 1910-16,1919-64.
3-2255-21ZZ	1942 123 (U) 1947 136 (N) ANNUAL (O) 1902,1910-11, 1913-14,1916, 1918-20,1947-48 MONTHLY (O) 1922-25,1927-36, 1949-53 (B) 1944-47,1949		
3-2255-21	SEE 3-2255-21Z AND 3-2255-21ZZ	1971 17.36 (U)	SEE 3-2255-21Z.
3-2255-22	1971 387 (U)	1971 17.36 (U)	Do.
3-2255-23	1971 355 (U)	1971 17.60 (U)	Do.
3-2255-24	1971 212 (U)	1971 17.40 (U)	Do.
3-2255-25Z	1942 179 (U) 1945 470 (U) 1943 260 (U) 1947 236 (U) 1944 408 (U) ANNUAL (O) 1902,1908,1910-11, 1913-14,1916,1918-20 MONTHLY (O) 1921-36 (B) 1944-59		
3-2255-25	1971 268 (U)	1971 17.60 (U)	SEE 3-2255-21Z.
3-2255-26	SEE 3-2255-21Z AND 3-2255-25Z	1971 17.43 (U)	Do.
3-2255-27	do.	1971 17.43 (U)	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	L I L E O O S G W T	F T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2255-28	X		SEE 3-2255-21Z AND 3-2255-25Z	1971 17.50 (U)	SEE 3-2255-21Z.
3-2255-29	X		SEE 3-2255-07Z	1971 17.60 (U)	SEE 3-2255-07Z.
3-2255-30	X		do.	1971 17.60 (U)	Do.
3-2255-31	X		do.	1971 17.50 (U)	Do.
3-2255-32		X	1966 136 (N) MONTHLY (N) 1938-39, 1941, 1952-61 DAILY (N) 1976-84 MONTHLY (B) 1938-39, 1941-66, 1968-84	MONTHLY (B) 1943-44, 1952-54 (N) 1952-57 DAILY (N) 1976-84	MONTHLY (B) 1937-60. (N) 1961-84.
3-2255-33	X		1968 216 (U)	DAILY (B) 1954-84	
3-2255-34	X		1955 138 (U) 1956 151 (U)	1955 21.09 (U) 1956 21.54 (U)	
3-2255-35Z			1957 142 (U) 1961 150 (U) 1958 142 (U) 1963 156 (U) 1959 133 (U) 1968 175 (S) 1960 147 (U)		MONTHLY (B) 1957-66, 1977-84. (P) 1967-76.
3-2255-35	X	X	1956 135 (U) 1957 146 (U) MONTHLY (U) 1972-84	1956 20.83 (U)	SEE 3-2255-35Z.
3-2255-36	X	X	1956 155 (U) 1972 178 (U) 1957 147 (U) 1978 205 (U)	1956 20.63 (U) 1957 21.52 (U)	Do.
3-2255-37Z					
3-2255-37	X	X	1961 240 (B) 1978 150 (U) MONTHLY (B) 1962-83	MONTHLY (B) 1962-63, 1965-74	MONTHLY (B) 1962-84. SEE 3-2255-37Z.
3-2255-38	X	X	1961 242 (U) MONTHLY (B) 1962-84	1961 16.53 (U) MONTHLY (B) 1962-74	Do.
3-2255-39	X	X	1961 204 (U) MONTHLY (B) 1962-84	1961 16.00 (U) MONTHLY (B) 1962-66, 1969-70	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F T L I E O O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)		PUMPAGE
3-2256-01		ANNUAL (U) 1908, 1910, 1912-14, 1918-19, 1942-45	1931 21.64 (U) 1932 22.89 (U) 1942 19.08 (U)	1943 19.27 (U) 1944 16.33 (U)	
3-2256-02		ANNUAL (U) 1902, 1908, 1910, 1912-14, 1918-20, 1943, 1947, 1949, 1957, 1962	1933 22.82 (U) 1943 19.65 (U) 1944 16.67 (U) 1945 15.35 (U) 1947 16.80 (U)	1948 19.17 (U) 1949 21.62 (U) 1957 19.62 (U) 1959 18.20 (U) 1962 17.84 (U)	
3-2256-03		1902 73 (U) 1919 106 (U) 1918 125 (U)			
3-2256-04		1910 88 (U) 1919 78 (U) 1918 73 (U) MONTHLY (U) 1929-59	1919 23.51 (U) MONTHLY (U) 1929-59		
3-2256-05Z		1941 61 (B) 1954 122 (S) ANNUAL (O) 1916, 1918-20, 1947 MONTHLY (O) 1921-36, 1949-53 (B) 1944-57 ANNUAL (U) 1942-45, 1947-48, 1950, 1952-56	1928 24.50 (O) 1949 19.16 (B)		MONTHLY (O) 1910-15, 1919-57.
3-2256-05		1965 130 (U)	1965 18.31 (U)		SEE 3-2256-05Z.
3-2256-06		1965 120 (U)	1965 18.64 (U)		Do.
3-2256-07		1965 124 (U)	1965 18.65 (U)		Do.
3-2256-08		1966 133 (U)	1966 21.68 (U)		Do.
3-2256-09		SEE 3-2256-05Z	SEE 3-2256-05Z		Do.
3-2256-10Z		1941 132 (B) 1958 127 (U) 1956 131 (U)			MONTHLY (N) 1924-59.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILE LOCATION	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2256-10	X	ANNUAL (U) 1923,1928-30 MONTHLY (U) 1934-68 ANNUAL (U) 1972,1974-75 MONTHLY (N) 1953-59	ANNUAL (U) 1923,1928-31 MONTHLY (U) 1934-65 CONTINUOUS (U) 1966-84	SEE 3-2256-10Z.
3-2256-11	X	1928 84 (U) 1931 95 (U) 1929 68 (U) 1947 142 (U) 1930 72 (U) MONTHLY (N) 1953-59	1928 25.13 (U) 1934 19.15 (U) 1929 22.27 (U) 1946 16.68 (U) 1930 21.02 (U) 1947 17.18 (U) 1933 20.50 (U)	Do.
3-2256-12	X	ANNUAL (U) 1928-31, 1934, 1947, 1966 MONTHLY (U) 1972-84 (N) 1953-59	1928 24.93 (U) 1934 19.02 (U) 1929 22.04 (U) 1946 16.80 (U) 1930 20.84 (U) 1947 17.30 (U) 1931 22.02 (U) 1966 19.66 (U) MONTHLY (U) 1973-84	Do.
3-2256-13	X	1943 168 (U) 1945 384 (U)	1943 22.34 (U) 1947 17.18 (U) 1945 17.17 (U)	
3-2257-01Z		SEMIANNUAL (O) 1899,1902,1904-05, 1908-09 MONTHLY (O) 1911-17		
3-2257-01		1928 360 (U) 1930 235 (U) 1929 411 (U) 1931 306 (U)	1928 23.63 (U) 1930 21.08 (U) 1929 22.01 (U) 1931 21.40 (U)	
3-2257-02		1928 308 (U) 1930 241 (U) 1929 393 (U) 1931 265 (U)	1928 23.61 (U) 1931 21.31 (U) 1929 22.01 (U) 1933 22.55 (U) 1930 21.07 (U)	
3-2257-03		1952 320 (U)		
3-2257-04		SEE 3-2157-03Z		
3-2257-05		1905 1,020 (U) 1910 1,180 (U) 1906 1,020 (U) 1911 636 (U) 1907 784 (U) 1912 352 (U) 1909 946 (U) 1913 355 (U)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDES	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2258-01		1939 152 (U) 1940 844 (U)	1939 18.97 (U)	
3-2258-02		1910 1,040 ppm (U) 1924 2,690 ppm (U)		
3-2258-03		1910 860 (U) 1945 1,720 (U) 1942 284 (U) 1952 1,650 (U) 1943 360 (U) 1953 1,830 (U)	1939 19.97 (U) 1942 17.26 (U) 1940 18.11 (U) 1943 17.54 (U)	
3-2258-04	X	1953 1,280 (U)	1953 18.00 (U)	
3-2258-05Z		1938 1,100 (U) 1943 1,460 (U) 1942 1,160 (U) 1950 1,150 (U)	1938 21.06 (U) 1942 16.57 (U) 1939 20.36 (U) 1943 16.85 (U)	
3-2258-05	X	1930 1,100 (U) 1950 1,330 (U) 1940 1,090 (U) 1952 1,400 (U) 1944 1,220 (U) 1953 1,490 (U)	1940 17.43 (U) 1952 18.29 (U) 1944 14.67 (U) 1953 18.83 (U) 1950 17.39 (U)	
3-2258-06		1940 1,010 (U) 1952 1,220 (U) 1945 1,300 (U) 1953 1,230 (U) 1947 1,250 (U)	1940 17.47 (U) 1953 18.06 (U)	
3-2258-07	X	ANNUAL (U) 1930, 1942-45, 1947, 1950-52, 1954-60, 1962-63	ANNUAL (U) 1939, 1942-45, 1947, 1950-60, 1962-63	
3-2258-08	X	1934 852 (U) 1947 1,440 (U) 1938 1,110 (U) 1953 1,700 (U) 1945 1,500 (U)	1934 16.56 (U) 1940 4.41 (U) 1935 16.06 (U) 1945 4.62 (U) 1938 7.01 (U) 1953 7.45 (U)	
3-2258-09	X	1939 832 (U) 1942 1,350 (U)	1939 17.98 (U)	
3-2258-10	X X	1940 968 (U) 1945 1,320 (U) 1942 1,290 (U) 1947 1,280 (U) 1943 1,400 (U) 1953 1,440 (U) 1944 1,380 (U) QUARTERLY (B) 1954-60	1940 17.38 (U) 1944 14.77 (U) 1942 16.79 (U) 1953 13.02 (U) 1943 16.87 (U) 1954 10.74 (B)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F T L I E O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2258-11	X	1940 863 (U) 1942 1,800 (U) 1943 2,040 (U)	1940 17.18 (U) 1943 13.47 (U) 1944 11.88 (U)	
3-2259-01	X	1910 896 (U) 1930 1,920 (U) 1941 1,650 (U)	1942 2,120 (U) 1943 2,130 (U) 1957 1,710 (U)	
3-2259-02		1910 892 (U) 1930 1,320 (U) 1938 1,500 (S)	1942 1,470 (U) 1943 1,660 (U)	
3-2259-03	X	1910 748 (U) 1930 2,340 (U)	1941 2,840 (U) 1942 4,440 (U)	
3-2300-01	X	1910 460 (U)	1947 2,100 (U)	
3-2300-02	X	1930 870 (U) 1942 990 (U) 1943 1,480 (U)	1944 1,190 (U) 1945 1,120 (U) 1947 1,120 (U)	
3-2300-03	X	ANNUAL (U) ANNUAL (U) ANNUAL (U)	1940 25.02 (U) 1942 19.57 (U) 1943 19.90 (U) 1944 17.49 (U)	
3-2300-04		ANNUAL (U) ANNUAL (U)	1940 24.54 (U) 1942 19.59 (U) 1943 19.94 (U)	
3-2300-05	X	ANNUAL (U) ANNUAL (U)	1931 22.07 (U) 1954 16.86 (U)	
3-2300-06	X	ANNUAL (U) MONTHLY (U)	1955 20.37 (U) 1960 16.19 (U) ANNUAL (U) MONTHLY (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2300-07Z	X	1943 150 (U) 1954 150 (S) 1952 140 (U) ANNUAL (O) 1899, 1907-09 MONTHLY (O) 1910-17 ANNUAL (O) 1919-29, 1934-35, 1940-41, 1946 MONTHLY (O) 1972-82 (B) 1949-62		MONTHLY (O) 1921-84.
3-2300-07		1969 89 (S)		SEE 3-2300-07Z.
3-2300-08		SEE 3-2300-07Z		Do.
3-2300-09		do.		Do.
3-2300-10	X	1910 192 (U) MONTHLY (U) 1912-16, 1920-21, 1923-76	MONTHLY (U) 1910-21, 1923-78	
3-2300-11	X	1966 162 (B) ANNUAL (U) 1910, 1930, 1942-45, 1947-60, 1962-63, 1968-69 MONTHLY (U) 1972-84	1940 24.65 (U) 1944 17.65 (U) 1942 19.60 (U) 1947 16.97 (U) 1943 20.14 (U) 1952 21.51 (U)	MONTHLY (B) 1975-84.
3-2300-12	X	SEE 3-2300-07Z		SEE 3-2300-07Z.
3-2300-13	X	do.		Do.
3-2300-14	X	do.		Do.
3-2300-15		1910 240 (U) 1942 143 (U) 1930 117 (U) 1951 79 (U) 1940 100 (U) 1952 88 (U)	1940 24.77 (U) 1948 19.33 (U) 1942 19.43 (U) 1950 19.89 (U) 1943 20.03 (U) 1953 17.33 (U) 1944 19.58 (U) 1954 17.87 (U) 1945 16.98 (U) 1955 22.11 (U)	
3-2300-16	X	SEE 3-2300-07Z		SEE 3-2300-07Z.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L I E O I O S G I W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2300-17	X	SEE 3-2300-07Z		SEE 3-2300-07Z.
3-2300-18	X	1947 132 (S) 1954 87 (S) ANNUAL (U) 1930,1942-45, 1947-49,1951-54, 1968,1983	1931 26.26 (U) 1932 24.16 (U) CONTINUOUS (U) 1982-84 MONTHLY (B) 1966-74	ANNUAL (B) 1944-54.
3-2300-19	X	1956 131 (U) 1959 122 (U) 1957 127 (U) 1960 122 (U) 1958 128 (U) 1962 134 (U) 1958 122 (S) 1963 138 (U)	1956 20.66 (U)	
3-2300-20	X X	1959 204 (U) 1966 145 (B) 1960 141 (U) 1969 135 (U) 1962 152 (U) 1972 155 (U) 1963 145 (U)	1959 18.93 (U) 1966 20.72 (U)	
3-2300-21	X	1962 96 (U) 1978 110 (U) 1972 104 (U) QUARTERLY (B) 1963-83	1962 19.90 (D)	SEE 3-2300-07Z.
3-2300-22	X	SEE 3-2300-07Z		Do.
3-2300-23	X	do.	1962 18.80 (D)	Do.
3-2301-01Z		1957 75 (O) 1958 75 (O) SEMIANNUAL (O) 1898,1901-09 MONTHLY (O) 1910-22 WEEKLY (O) 1923-53 MONTHLY (O) 1972-74,1976-82 (B) 1943-44,1946-68 QUARTERLY (B) 1969-84 ANNUAL (U) 1943-44,1946-48, 1952,1954-60,1963, 1981	WEEKLY (O) 1913-27,1933,1954 MONTHLY (O) 1928-32 DAILY (O) 1935,1939,1941-46, 1952-53	MONTHLY (O) 1905-84.
3-2301-01		SEE 3-2301-01Z	SEE 3-2301-01Z	SEE 3-2301-01Z.
3-2301-02		do.	do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2301-03		SEE 3-2301-01Z	SEE 3-2301-01Z	SEE 3-2301-01Z.
3-2301-04		do.	do.	Do.
3-2301-05		1968 74 (U) 1982 34 (U)	1981 17.22 (U) 1982 19.84 (U) CONTINUOUS (U) 1967-73	Do.
3-2301-06		SEE 3-2301-01Z	SEE 3-2301-01Z	Do.
3-2301-07		do.	do.	Do.
3-2301-08		do.	do.	Do.
3-2301-09Z		MONTHLY (U) 1972-84		
3-2301-09		SEE 3-2301-09Z	SEE 3-2301-01Z	SEE 3-2301-01Z.
3-2301-10		do.	do.	Do.
3-2301-11Z		1957 270 (O) SEMIANNUAL (O) 1901-09 MONTHLY (O) 1910-22 WEEKLY (O) 1923-53 MONTHLY (O) 1972-82 MONTHLY (B) 1944, 1947-68 QUARTERLY (B) 1969-84 ANNUAL (U) 1943-44, 1946-48, 1952, 1955-60, 1963, 1972	1958 20.90 (O) WEEKLY (O) 1913-27, 1933-34 MONTHLY (O) 1928-32 DAILY (O) 1935, 1939, 1941-46	MONTHLY (O) 1905-84.
3-2301-11		SEE 3-2301-11Z	SEE 3-2301-11Z	SEE 3-2301-11Z.
3-2301-12		do.	do.	Do.
3-2301-13		do.	do.	Do.
3-2301-14		do.	do.	Do.
3-2301-15		do.	do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	F T L L E O O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2301-16		SEE 3-2301-11Z	SEE 3-2301-11Z	SEE 3-2301-11Z.
3-2301-17		do.	do.	Do.
3-2301-18		do.	do.	Do.
3-2301-19		do.	do.	Do.
3-2301-20		do.	do.	Do.
3-2301-21Z			WEEKLY (O) 1952-57	MONTHLY (O) 1905-84.
3-2301-21ZZ		1957 291 (O) 1958 174 (O) SEMIANNUAL (O) 1898-99, 1901-09 MONTHLY (O) 1910-22 WEEKLY (O) 1923-53 MONTHLY (O) 1972-74, 1976-82 (B) 1943-44, 1946-68 QUARTERLY (B) 1969-84 ANNUAL (U) 1943, 1946-48, 1952, 1955-58, 1963	1958 21.00 (O) WEEKLY (O) 1913-27 MONTHLY (O) 1928-33 DAILY (O) 1935, 1939, 1941-46, 1953	
3-2301-21		SEE 3-2301-21ZZ	SEE 3-2301-21Z AND 3-2301-21ZZ	SEE 3-2301-21Z.
3-2301-22		do.	do.	Do.
3-2301-23		do.	do.	Do.
3-2301-24		do.	do.	Do.
3-2301-25		do.	do.	Do.
3-2301-26		do.	do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--continued

WELL NUMBER	FLIGHTS O/S G/W/T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2301-27Z		1943 268 (U) 1958 233 (O) 1957 353 (O) SEMIANNUAL (O) 1904-09 MONTHLY (O) 1910-19 WEEKLY (O) 1923-53 MONTHLY (B) 1944, 1947-68 QUARTERLY (B) 1969-83	1957 21.60 (O) 1958 21.00 (O) MONTHLY (O) 1929-32 DAILY (O) 1935, 1939, 1941-46	SEE 3-2301-21Z.
3-2301-27		SEE 3-2301-27Z	SEE 3-2301-21Z AND 3-2301-27Z	Do.
3-2301-28		do.	do.	Do.
3-2301-29		do.	do.	Do.
3-2301-30		do.	do.	Do.
3-2301-31		do.	do.	Do.
3-2301-32		do.	do.	Do.
3-2301-33	X	ANNUAL (U) 1910, 1930, 1939, 1942-45, 1947, 1951-52, 1954-59	1944 16.95 (U) 1957 20.42 (U) 1945 16.48 (U) 1958 20.55 (U) 1947 16.30 (U) 1959 17.17 (U)	MONTHLY (B) 1961-84.
3-2301-34Z				
3-2301-34	X	1959 135 (U) 1978 130 (U) MONTHLY (B) 1961-84	1959 17.03 (U) MONTHLY (B) 1962-64, 1966-73	SEE 3-2301-34Z.
3-2301-35	X	1959 147 (U) 1962 133 (B) MONTHLY (B) 1966-84	1959 17.55 (U) MONTHLY (B) 1967-70	Do.
3-2301-36	X	1959 170 (U) 1978 150 (U) MONTHLY (B) 1961-84	1959 18.33 (U) MONTHLY (B) 1962, 1964-66, 1968	Do.
3-2301-37	X	1959 147 (U) 1966-84 MONTHLY (B) 1966-84	1959 18.34 (U) 1965 18.50 (U) MONTHLY (B) 1966-73	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2301-38	X	1975 111 (B) 1981 116 (B) 1976 112 (B) 1982 111 (B) 1977 101 (B) 1983 122 (B) 1978 110 (B) 1984 119 (B) 1980 115 (B)		
3-2301-39	X	1975 110 (B) 1980 113 (B) 1976 114 (B) 1981 128 (B) 1977 113 (B) 1982 117 (B) 1978 124 (B) 1983 126 (B) 1979 118 (B) 1984 124 (B)		
3-2302-01Z		1966 98 (U)		MONTHLY (B) 1958-84.
3-2302-01	X	1958 126 (S) 1973 112 (U) 1958 120 (U) 1974 112 (U) 1972 120 (U) MONTHLY (B) 1947-84	1958 23.81 (U) MONTHLY (B) 1959-74	SEE 3-2302-01Z.
3-2302-02	X	1957 150 (U) 1972 136 (U) MONTHLY (B) 1947-84	1957 21.58 (U) MONTHLY (B) 1959-62, 1964-74	Do.
3-2302-03	X	1972 106 (B) 1978 115 (U) ANNUAL (B) 1975-84		
3-2302-04	X	1972 106 (B) 1980 140 (B) 1975 100 (B) 1981 134 (B) 1976 125 (B) 1982 134 (B) 1978 124 (B) 1983 152 (B) 1979 124 (B) 1984 140 (B)	1973 12.80 (U) 1974 18.29 (U)	
3-2354-01	X	1968 43 (U) ANNUAL (B) 1943-84	1949 23.70 (B)	MONTHLY (B) 1945-84.
3-2355-01	X	1938 220 (U)	1938 25.95 (U) WEEKLY (B) 1941-55 MONTHLY (B) 1956-61	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FT L I O I S G I M I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2355-02	X	1957 120 (O) MONTHLY (O) 1947,1949-53 (B) 1948-59	1958 20.50 (O) WEEKLY (O) 1953-57	MONTHLY (O) 1945-60.
3-2355-03Z	X	1954 40 (S) 1955 38 (U) 1956 38 (U) 1957 36 (U)	1947 18.02 (U) 1950 21.02 (U) 1958 23.05 (U)	MONTHLY (B) 1956-84. SEE 3-2355-03Z.
3-2355-04	X	1947 38 (U) BIMONTHLY (B) 1959-84	1947 18.52 (U) 1950 21.03 (U)	SEE 3-2355-03Z.
3-2355-05	X	1957 107 (U) 1958 103 (U) 1959 127 (U)	1958 20.66 (U) MONTHLY (B) 1959-71	SEE 3-2355-06Z. MONTHLY (B) 1956-84.
3-2355-06Z	X	1958 88 (S) BIMONTHLY (B) 1959-84	1955 20.56 (U) MONTHLY (B) 1955-70	Do.
3-2355-07	X	1963 80 (B) 1968 50 (U)	1963 18.77 (B) MONTHLY (B) 1965-84	Do.
3-2355-08	X	1965 101 (B) 1966 75 (B) 1967 54 (B) 1968 48 (B)	1965 20.78 (B)	SEE 3-2355-09Z.
3-2355-09Z	X	1965 46 (B) 1978 32 (U)	1965 20.30 (B)	Do.
3-2355-10	X	1965 46 (B) 1978 32 (U)	1965 20.30 (B)	Do.
3-2355-11	X	1965 46 (B) ANNUAL (B) 1972-84	1965 19.76 (B)	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F I T L I E O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)		WATER LEVEL (in feet above MSL)	PUMPAGE
		1965	1969		
3-2355-12	X	55 (B)			SEE 3-2355-09Z.
3-2355-13	X	43 (B)			Do.
3-2355-14	X	39 (B)			Do.
3-2356-01					
3-2356-02	X	104 (U) 1910 102 (U) 1925 74 (U) MONTHLY (U) 1912-16, 1920-21, 1923-24, 1932-59	1926 62 (U) 1949 240 (S)	MONTHLY (U) 1910-21, 1923-24, 1932-59	
3-2356-03	X	ANNUAL (U) 1910, 1941-43, 1945-48, 1950-57		ANNUAL (U) 1939, 1941-48, 1953-54, 1956-57, 1959-60, 1962-63	
3-2356-04	X				
3-2356-05	X				
3-2356-06	X				
3-2356-07	X				
3-2356-08	X				
3-2356-09	X				
3-2356-10	X				
3-2356-11	X				
3-2356-12	X				

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDES GWT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2356-13	X	1947 64 (S)	1939 20.81 (U)	
		ANNUAL (U) 1910, 1941-47, 1950-57	1941 18.65 (U)	
3-2356-14Z		MONTHLY (B) 1941, 1944-50	1944 16.15 (U)	
		ANNUAL (U) 1942-45, 1947-48, 1952-55, 1957, 1963	1945 15.29 (U)	
3-2356-14Z2		ANNUAL (O) 1902, 1911, 1914, 1916, 1918-20	1942 18.87 (U)	
		MONTHLY (O) 1908-10, 1913, 1921-36	1943 19.00 (U)	
3-2356-14		1902 1,020 (O)	MONTHLY (O) 1921-22, 1924-25, 1927-34	MONTHLY (O) 1910-16, 1919-52.
		1908 1,640 (O)		
3-2356-15		1910 1,580 (O)		
		1902 457 (O)		
3-2356-16		1908 561 (O)		
		1919 739 (O)		
3-2356-17		1902 73 (O)		
		1908 28 (O)		
3-2356-18		1910 31 (O)		
		1902 883 (O)		
3-2356-19		1908 28 (O)		
		1919 548 (O)		
3-2356-19		1902 104 (O)		
		1908 125 (O)		
		1919 178 (O)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F T L L O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2356-20	1902	738 (0) 1919 2,100 (0)	SEE 3-2356-14Z	SEE 3-2356-14Z.
	1908	1,570 (0) 1920 1,890 (0)		
	1909	1,620 (0) 1928 646 (0)		
	1910	1,670 (0) 1929 2,700 (0)		
3-2356-21	1902	83 (0) 1920 620 (0)	do.	Do.
	1908	125 (0) 1928 514 (0)		
	1919	142 (0) 1929 263 (0)		
3-2356-22	1902	83 (0) 1920 528 (0)	do.	Do.
	1908	145 (0) 1928 674 (0)		
	1919	206 (0) 1929 283 (0)		
3-2356-23	1902	145 (0) 1920 409 (0)	do.	Do.
	1910	322 (0) 1928 482 (0)		
	1919	405 (0) 1929 684 (0)		
	1902	156 (0) 1920 416 (0)	do.	Do.
3-2356-24	1910	478 (0) 1928 546 (0)		
	1919	590 (0) 1929 680 (0)		
	1902	52 (0) 1928 560 (0)	do.	Do.
3-2356-25	1910	270 (0) 1929 582 (0)		
	1920	402 (0)		
	1902	104 (0) 1920 416 (0)	do.	Do.
3-2356-26	1910	41 (0) 1928 560 (0)		
	1919	43 (0) 1929 57 (0)		
	ANNUAL	(0) 1902, 1909, 1911, 1914, 1916, 1918-20		
3-2356-27	MONTHLY	(0) 1910, 1913, 1921-36	SEE 3-2356-14Z	SEE 3-2356-14Z.
	1902	83 (0) 1920 329 (0)		
	1910	821 (0) 1929 1,650 (0)		
	1919	938 (0)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F T O O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2356-28		1902 52 (O)	SEE 3-2356-14Z	SEE 3-2356-14Z.
		1910 208 (O)		
		1919 34.8 (O)		
3-2356-29		1902 73 (O)	do.	Do.
		1910 291 (O)		
3-2356-30		1902 73 (O)	do.	Do.
		1910 62 (O)		
		1919 128 (O)		
		1920 118 (O)		
3-2356-31		1902 73 (O)	do.	Do.
		1910 31 (O)		
		1919 71 (O)		
3-2356-32		1902 73 (O)	do.	Do.
		1910 125 (O)		
		1919 199 (O)		
3-2356-33		1910 145 (O)	do.	Do.
		1919 228 (O)		
		1920 165 (O)		
3-2356-34Z		1954 565 (S)	1958 21.20 (O) SEMIANNUAL (O) 1921-22, 1924-25 MONTHLY (O) 1927-34 WEEKLY (O) 1953-57	MONTHLY (O) 1910-16, 1919-70.
		ANNUAL (O) 1910-11, 1913-14,		
		1916, 1918-20, 1957-58		
		MONTHLY (O) 1921-36		
		(B) 1944-59		
		ANNUAL (U) 1942-45, 1947-48,		
		1950, 1952-60, 1962-63		
		SEE 3-2356-34Z		
		do.		
		do.		
	do.			
3-2356-34	X		SEE 3-2356-34Z	SEE 3-2356-34Z.
3-2356-35			do.	Do.
3-2356-36			do.	Do.
3-2356-37	X		do.	Do.
3-2356-38	X		do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	L O G	F I L E	CHLORIDE (concentration in mg/L) (except as indicated)		WATER LEVEL (in feet above MSL)	PUMPAGE
			SEE 3-2356-34Z	SEE 3-2356-34Z		
3-2356-39	X				SEE 3-2356-34Z	SEE 3-2356-34Z.
3-2356-40	X		do.		do.	Do.
3-2356-41	X		do.		do.	Do.
3-2356-42	X		do.		do.	Do.
3-2356-43	X					
3-2356-44	X		1941 160 (U) 1942 140 (U) 1943 171 (U) 1944 131 (U) 1945 120 (U)	1947 148 (U) 1948 190 (U) 1950 209 (U) 1951 300 (U) 1952 188 (U)	1941 21.42 (U)	ANNUAL (B) 1945-55.
3-2356-45	X		1945 59 (U)	1947 61 (U)	1945 15.83 (U) DAILY (B) 1945-59	
3-2356-46	X				WEEKLY (B) 1953-76	
3-2356-47	X				WEEKLY (B) 1953-71	
3-2356-48	X				WEEKLY (B) 1953-71 MONTHLY (U) 1965-68	
3-2356-49Z			1956 46 (U) 1957 56 (U) 1958 57 (U)	1959 56 (U) 1960 55 (U)		MONTHLY (B) 1956-84.
3-2356-49	X		1954 58 (U) MONTHLY (B) 1959-80		1954 20.36 (U) MONTHLY (B) 1959-74	SEE 3-2356-49Z.
3-2356-50	X		1955 57 (B) MONTHLY (B) 1959-84		MONTHLY (B) 1960-70	Do.
3-2356-51	X		1958 1,610 (U)	1959 1,440 (U)	CONTINUOUS (U) 1958-64, 1966-67	
3-2356-52	X		1959 106 (B)	1960 109 (B)	1959 16.16 (U)	MONTHLY (B) 1960.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--continued

WELL NUMBER	FLUORIDES	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2356-53	X	1959 97 (U) 1968 163 (U) 1966 126 (B)	1959 17.83 (U) 1960 17.69 (U) DAILY (B) 1959-69	
3-2356-54	X		1966 18.50 (U)	MONTHLY (B) 1966-84.
3-2356-55Z				MONTHLY (B) 1969-84.
3-2356-55	X	1966 131 (B) BIMONTHLY (B) 1969-84	1966 18.05 (B)	SEE 3-2356-55Z.
3-2356-56	X	1966 130 (B) 1978 35 (U) 1968 28 (U) BIMONTHLY (B) 1969-84	1966 19.37 (B) MONTHLY (B) 1970-74	Do.
3-2356-57	X	1971 173 (B)	MONTHLY (B) 1972-78	
3-2356-58Z				MONTHLY (B) 1975-84.
3-2356-58	X	1973 99 (B) 1979 129 (B) 1977 113 (B) 1980 88 (B) 1978 126 (B) 1981 90 (B) 1978 120 (U) 1983 88 (B)	1973 13.12 (B)	SEE 3-2356-58Z.
3-2356-59	X	1973 94 (U) 1976 107 (B) 1973 94 (B) 1984 122 (B) 1975 92 (B)		Do.
3-2356-60Z				MONTHLY (B) 1978-82.
3-2356-60	X	1975 120 (U) 1975 116 (B)	1975 21.01 (B)	SEE 3-2356-60Z.
3-2356-61Z				MONTHLY (B) 1978-83.
3-2356-61	X	1975 57 (U) 1979 198 (B) 1975 60 (S)		SEE 3-2356-61Z.
3-2356-62	X	1975 46 (B) 1980 172 (B) 1978 142 (B) 1981 182 (B)		Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L I O G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2356-63	X	1975 141 (S) 1982 540 (B) 1981 470 (B)		SEE 3-2356-60Z.
3-2356-64	X	1975 96 (B) 1980 365 (B)		Do.
3-2356-65	X		1975 15.95 (B)	SEE 3-2356-61Z.
3-2357-01	X			
3-2357-02	X	1910 84 (U) 1943 120 (U) 1939 128 (U) 1944 119 (U) 1942 115 (U) 1945 100 (U)	1941 16.21 (U) 1944 15.49 (U) 1942 17.39 (U) 1945 14.18 (U) 1943 18.39 (U)	
3-2357-03	X	ANNUAL (U) 1910, 1939, 1942-44, 1947-57	1932 21.86 (U) 1944 15.63 (U) 1939 21.53 (U) 1945 14.72 (U) 1942 18.22 (U) 1947 15.48 (U) 1943 18.68 (U) 1949 18.60 (U)	
3-2357-04	X X	1910 70 (U) 1947 148 (U) 1939 116 (U) 1948 155 (U) 1942 119 (U) 1956 180 (U) 1944 122 (U) 1957 190 (U) 1945 133 (U) 1958 133 (U)	1935 20.30 (U) 1957 18.22 (U) 1948 18.36 (U) 1958 18.42 (U) 1956 19.48 (U) 1959 18.49 (U)	ANNUAL (P) 1938-69.
3-2357-05Z				
3-2357-05		1939 174 (U)	1939 13.37 (U) 1940 13.39 (U)	SEE 3-2357-05Z.
3-2357-06	X	1944 154 (U)	1934 20.24 (U) 1949 21.00 (U) 1944 16.30 (U)	
3-2357-07	X	1943 73 (U) 1956 143 (U) 1944 47 (U) 1957 127 (U) 1945 42 (U) 1958 182 (U) 1954 188 (U) 1962 107 (U) 1955 192 (U) 1963 89 (U)	1939 13.80 (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	L O S G W T	F L E S T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2357-08	X		1938 116 (U)	1945 145 (U)	
			1942 145 (U)	1956 161 (U)	
			1943 155 (U)	1957 157 (U)	
			1944 178 (U)		
3-2357-09	X	X	1938 128 (U)	1942 161 (U)	SEE 3-2357-05Z.
			1939 243 (U)	1945 156 (P)	
			1941 197 (P)	1971 206 (B)	
3-2357-10	X	X	1938 248 (P)	1945 156 (P)	Do.
			1939 244 (U)	1953 222 (U)	
			1941 228 (P)	1956 212 (U)	
			1942 224 (U)	1971 274 (B)	
3-2357-11	X	X	1938 159 (P)	1945 125 (P)	Do.
			1939 164 (U)	1953 126 (U)	
			1941 125 (P)	1971 164 (B)	
			1942 129 (U)		
3-2357-12	X	X	1938 144 (P)	1945 125 (P)	Do.
			1939 136 (U)	1953 159 (U)	
			1941 125 (P)	1971 152 (B)	
			1942 111 (U)		
3-2357-13			1941 134 (B)		Do.
			ANNUAL (U) 1938, 1942, 1952-57, 1972, 1978 MONTHLY (B) 1944-84		
3-2357-14	X		1940 546 (U)	1945 374 (P)	Do.
			1941 654 (P)	1971 385 (B)	
			1944 362 (U)		
3-2357-15			1971 320 (B)		Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLUORIDE O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2357-16	X	1940 1,320 (U)	1941 17.83 (P)	SEE 3-2357-05Z.
		1941 758 (P)	1942 18.30 (P)	
			1943 19.25 (P)	
3-2357-17	X	1941 125 (P)	1941 16.49 (P)	Do.
		1942 97 (U)	1942 16.89 (P)	
		1945 125 (P)	1943 17.71 (P)	
3-2357-18	X	1940 140 (P)	1941 16.13 (P)	Do.
		1941 156 (P)	1942 16.50 (P)	
		1942 114 (U)	1943 17.29 (P)	
3-2357-19	X	ANNUAL (U) 1950, 1952-60, 1962-63, 1973	1950 19.62 (U)	
			1952 19.93 (U)	
			1956 19.79 (U)	
3-2357-20	X	1956 92 (U)	1956 19.08 (U)	
		1957 62 (U)	1957 19.36 (U)	
		1958 62 (U)		
3-2357-21	X	1963 206 (S)	1965 16.92 (B)	MONTHLY (B) 1963-72, 1975-76.
		1964 210 (S)	MONTHLY (U) 1963-82	
		MONTHLY (U) 1963-78		
3-2357-22	X	1965 384 (U)	1965 20.06 (U)	MONTHLY (B) 1967-69.
		1966 389 (U)	1966 21.50 (U)	
3-2357-23Z				MONTHLY (B) 1978-84.
3-2357-23	X	1975 246 (S)		SEE 3-2357-23Z.
3-2357-24	X	1978 188 (B)	1975 14.00 (B)	Do.
		1980 125 (B)		
		1981 114 (B)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--continued

WELL NUMBER	TEST LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2358-01	X	1965 290 (B) ANNUAL (U) 1910, 1939, 1942-60, 1962-63, 1968-69, 1972	1944 13.70 (U) 1945 13.82 (U) 1946 14.12 (U) 1947 13.91 (U) 1953 14.26 (U)	
3-2358-02	X	1910 200 (U) 1913 115 (U) 1923 203 (U) MONTHLY (U) 1912, 1920-21, 1929-84	1923 19.96 (U) 1926 17.09 (U) MONTHLY (U) 1910-21, 1929-74	
3-2358-03Z		1909 187 (U) 1910 179 (U) 1926 217 (U)	1926 21.15 (U)	ANNUAL (B) 1945-47.
3-2358-03		1925 230 (U)	1941 19.00 (U)	SEE 3-2358-03Z.
3-2358-04Z		1942 342 (U) 1943 432 (U)	1938 19.38 (U) 1942 16.56 (U)	
3-2358-04		1924 426 (U)	SEE 3-2358-04Z	
3-2358-05	X	1912 1,070 (U) 1913 1,110 (U) 1914 1,150 (U)		
3-2358-06	X	1910 216 (U) 1923 264 (U) 1924 300 (U) 1926 247 (U) 1933 581 (U)	1926 20.19 (U) 1939 19.51 (U) 1942 17.27 (U) 1944 16.28 (U)	
3-2358-07		1925 147 (U)	SEE 3-2358-03Z	SEE 3-2358-03Z.
3-2358-08	X	1965 1,110 (B) ANNUAL (U) 1910, 1912, 1926, 1930, 1942-45, 1947-48, 1950-60, 1962-63	1965 15.39 (B) ANNUAL (U) 1926, 1931-32, 1939, 1942-45, 1948, 1950, 1952-60, 1963	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L O W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2358-09	X	ANNUAL (U) 1910, 1912-15, 1930, 1939, 1943, 1953	1939 16.47 (U) 1943 18.87 (U)	
3-2358-10		1942 300 (U) 1945 175 (U) 1943 342 (U) 1947 148 (U) 1944 174 (U)	1939 19.55 (U) 1947 14.87 (U) 1944 15.24 (U) 1948 17.76 (U) 1945 14.67 (U)	
3-2358-11	X	SEE 3-2358-04Z	1931 19.66 (U)	
3-2358-12	X	1910 1,780 (U) 1941 698 (U) 1924 848 (U)		
3-2358-13	X	1942 189 (U) 1945 140 (U) 1943 252 (U) 1947 128 (U) 1944 164 (U)	1941 18.88 (U) 1943 18.68 (U) 1942 18.33 (U)	SEE 3-2358-03Z.
3-2358-14Z		1944 158 (S) 1958 66 (U) 1956 132 (U) 1972 51 (U) MONTHLY (O) 1927-36 (N) 1944-48, 1953-59		MONTHLY (O) 1927-38. (B) 1944-57.
3-2358-14	X	1926 244 (U)		SEE 3-2358-14Z.
3-2358-15	X	1926 254 (D)		Do.
3-2358-16	X	1926 247 (D) 1943 272 (U) 1942 252 (U) 1944 171 (U)	1932 21.30 (U) 1943 18.62 (U) 1942 18.25 (U)	Do.
3-2358-17	X	1926 247 (U) 1956 148 (U)		Do.
3-2358-18	X X	1939 2,220 (U) 1953 2,160 (U)	1939 16.71 (U) 1940 13.84 (U)	
3-2358-19	X X	1944 350 (U) 1956 255 (U) 1945 222 (U) 1957 351 (U) 1954 256 (U) 1958 148 (U) MONTHLY (U) 1972-79	1944 17.23 (U) 1973 13.74 (U) 1972 14.32 (U) MONTHLY (U) 1974-84	
3-2358-20	X	1947 216 (U)	1946 17.46 (B) (B) 1947-84 DAILY	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	DEPTH	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2358-21	X	1948 114 (D)	1948 18.49 (D)	
	X	1965 210 (B)	1965 14.64 (B)	
	X	ANNUAL 1948, 1950-52, 1954-60, 1962-63	1966 15.26 (B)	
3-2358-22	X	1948 114 (D)	1948 18.56 (D)	
	X	1965 137 (B)	1952 17.67 (U)	
		ANNUAL 1948, 1950-60, 1962-63, 1969	1953 14.20 (U)	
		MONTHLY 1972-84	1963 15.45 (U)	
3-2358-23	X	1965 695 (B)	1949 17.08 (D)	
	X	ANNUAL 1949-51, 1953-60, 1962-63, 1969, 1972	1965 14.96 (B)	
			ANNUAL 1949-51, 1953-60	
3-2358-24	X	ANNUAL 1949-52, 1954-60, 1962-63	1949 16.72 (U)	
	X		1954 14.92 (U)	MONTHLY (B) 1977-84.
3-2358-25	X	1964 535 (B)	1951 17.55 (D)	
	X	ANNUAL 1951-60, 1962-63, 1969, 1972	1952 17.06 (U)	
			1953 14.38 (U)	
3-2358-26	X	1952 145 (D)	1952 17.80 (D)	
	X	1965 210 (B)	1965 16.06 (B)	
		ANNUAL 1952-60, 1962-63, 1969, 1972	1966 17.57 (B)	
3-2358-27	X	1965 140 (B)	1953 16.53 (U)	
	X	ANNUAL 1953-60, 1962-63, 1969, 1972, 1977-78	1954 14.91 (U)	
			1955 17.76 (U)	
			1956 17.24 (U)	
			1957 16.47 (U)	
3-2358-28	X	1965 238 (B)	1953 16.31 (U)	
	X	ANNUAL 1953-60, 1962-63, 1969, 1972	1954 15.09 (U)	
			1965 15.72 (B)	MONTHLY (B) 1977.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L I E O O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2358-29	X X	1965 300 (B) 1966 378 (B) ANNUAL (U) 1953-60, 1962-63, 1969 MONTHLY (U) 1972-84	1953 15.88 (U) 1966 16.48 (B) 1965 15.77 (B)	
3-2358-30	X	1953 168 (U) 1958 189 (U) 1954 167 (U) 1959 184 (U) 1955 225 (U) 1960 164 (U) 1956 220 (U) 1962 196 (U) 1957 200 (U) 1963 310 (U)	1953 15.19 (U) 1958 17.20 (U) 1954 15.34 (U) 1959 15.04 (U) 1957 16.81 (U) 1962 14.66 (U)	
3-2358-31	X	1966 112 (B) ANNUAL (U) 1953-60, 1962-63	1953 14.54 (U) 1958 16.38 (U) 1954 14.24 (U) 1959 14.43 (U) 1955 16.91 (U) 1960 13.91 (U) 1956 16.39 (U) 1962 14.13 (U) 1957 15.77 (U) 1963 15.23 (U)	
3-2358-32	X X	1954 135 (D) 1966 100 (B) 1965 103 (B) ANNUAL (U) 1954-56, 1959-60, 1962-63, 1969, 1978	1954 15.36 (U) 1962 14.04 (U) 1955 18.21 (U) 1965 15.09 (B) 1959 14.12 (U) 1966 15.80 (B) 1960 13.58 (U)	
3-2358-33	X X	1954 135 (D) 1966 107 (B) 1965 106 (B) ANNUAL (U) 1954, 1956-60, 1962-63, 1969	1954 15.55 (D) 1965 15.63 (B) 1957 17.27 (U) 1966 16.40 (B) 1958 17.62 (U)	
3-2358-34	X X	1954 135 (D) 1966 135 (B) 1965 132 (B) ANNUAL (U) 1954-60, 1962-63, 1968-69, 1972	1954 15.83 (U) 1957 17.33 (U) 1956 18.65 (U) 1958 17.58 (U)	
3-2358-35	X X	1954 117 (U) 1959 118 (U) 1955 138 (U) 1960 113 (U) 1956 135 (U) 1962 137 (U) 1957 132 (U) 1963 161 (U) 1958 125 (U)	1954 15.19 (U) 1958 17.00 (U) 1955 17.87 (U) 1959 14.77 (U) 1956 17.77 (U) 1962 14.71 (U) 1957 16.52 (U) 1963 15.97 (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F T L E O I S G M I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)		PUMPAGE
3-2358-36	X X	1954 116 (U)	1959 118 (U)	1954 15.08 (U)	1958 16.87 (U)
		1955 142 (U)	1960 120 (U)	1955 17.29 (U)	1959 14.76 (U)
		1956 138 (U)	1962 139 (U)	1956 17.56 (U)	
		1957 132 (U)	1963 172 (U)		
		1958 130 (U)			
3-2358-37	X X	1965 160 (B)	1966 163 (B)	1955 19.68 (U)	1960 15.05 (U)
		ANNUAL (U) 1955-60, 1962-63, 1969, 1972		1956 18.36 (U)	1962 15.09 (U)
3-2358-38	X X	1955 206 (U)	1959 174 (U)	1957 17.22 (U)	1963 16.50 (U)
		1956 208 (U)	1960 162 (U)	1958 17.63 (U)	1965 16.40 (B)
		1957 195 (U)	1962 216 (U)	1959 15.51 (U)	1966 17.32 (B)
		1958 182 (U)	1963 226 (U)		
3-2358-39	X X	1957 116 (U)	1963 139 (U)	1957 17.84 (U)	1962 14.39 (U)
		1958 148 (U)	1965 144 (B)	1958 16.93 (U)	1965 15.70 (B)
		1959 126 (U)	1966 151 (B)	1959 14.98 (U)	1966 16.57 (B)
		1960 122 (U)	1967 162 (U)	1960 14.33 (U)	
		1962 139 (U)	1968 140 (U)		
3-2358-40	X X	1957 145 (D)	1960 108 (U)	1957 14.34 (U)	
		1958 123 (U)	1962 120 (U)		
		1959 121 (U)	1963 126 (U)		
3-2358-41	X X	1957 757 (U)	1962 1,230 (U)	1957 15.91 (U)	1960 14.16 (U)
		1958 1,600 (U)	1963 1,650 (U)	1958 16.81 (U)	1963 14.66 (U)
		1959 1,040 (U)	1965 1,470 (B)	1959 14.71 (U)	1965 15.79 (B)
		1960 938 (U)	1978 840 (U)		
3-2358-42	X X	1958 320 (U)	1964 268 (U)	1958 17.14 (U)	1965 15.82 (B)
		1959 262 (U)	1965 490 (B)	1959 14.47 (U)	1966 16.80 (B)
		1960 267 (U)	1966 558 (B)	1960 14.08 (U)	
		1962 340 (U)	1969 438 (U)		
		1963 453 (U)			
				MONTHLY (B) 1975-84.	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L L E O I O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2358-43	X	1959 159 (U) 1963 216 (U) 1962 173 (U) 1964 220 (U)		
	X	1962 134 (U) 1967 157 (U) 1963 157 (U) 1969 138 (U) 1965 162 (B) 1972 113 (U) 1966 150 (B)	1962 14.83 (U)	
3-2358-45	X	1967 235 (U)	1967 16.60 (U)	
3-2358-46	X	1967 221 (U)		
3-2358-47	X	1967 159 (U)		
3-2358-48	X X	1969 376 (U) 1970 285 (U) MONTHLY (U) 1971-79	MONTHLY (U) 1971-78	MONTHLY (B) 1970-82.
3-2358-49	X			
3-2359-01		1910 708 (U) 1947 1,230 (U) 1942 754 (U) 1954 842 (U)	1947 14.58 (U)	
		1942 185 (U)		
3-2359-03	X	1943 242 (U) 1945 175 (U)	1943 21.05 (U)	ANNUAL (B) 1944-47.
3-2359-04	X X	1965 350 (B) 1966 380 (B) ANNUAL (U) 1953-60, 1962-63, 1969	1953 16.00 (U) 1959 14.05 (U) 1954 15.24 (U) 1960 13.88 (U) 1955 18.25 (U) 1963 14.82 (U) 1956 18.01 (U) 1965 15.76 (B) 1957 16.65 (U)	
	X X	1965 445 (B) 1966 490 (B) ANNUAL (U) 1953-60, 1962-63, 1968-69 MONTHLY (U) 1972-84	1953 16.70 (U) 1958 17.38 (U) 1954 15.61 (U)	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	L I L E O I O S G W I T	F I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)		PUMPAGE
3-2359-06	X X		1965 ANNUAL 330 (B) 1966 315 (B) 1953-60, 1962-63, 1969, 1978	1953 15.57 (D)	1960 14.42 (U)	
				1955 17.85 (U)	1962 14.65 (U)	
				1958 17.50 (U)	1965 16.02 (B)	
				1959 14.87 (U)	1966 16.78 (B)	
3-2359-07	X		1953 226 (U)	1958 861 (U)	1953 15.75 (U)	1955 12.50 (U)
			1954 374 (U)	1959 676 (U)	1954 11.15 (U)	1958 13.22 (U)
			1955 700 (U)	1960 594 (U)		
			1956 817 (U)	1963 972 (U)		
			1957 805 (U)			
3-2359-08	X		1953 215 (U)	1958 349 (U)	1953 15.58 (U)	1954 15.30 (U)
			1954 254 (U)	1960 328 (U)		
			1955 275 (U)	1972 477 (U)		
3-2359-09	X		1953 195 (U)	1958 197 (U)	1953 15.64 (U)	1958 17.53 (U)
			1954 198 (U)	1959 198 (U)	1954 15.50 (U)	1959 15.17 (U)
			1955 210 (U)	1960 202 (U)	1955 18.64 (U)	1960 14.94 (U)
			1956 210 (U)	1962 206 (U)	1956 17.89 (U)	1962 14.99 (U)
			1957 210 (U)	1963 202 (U)	1957 17.14 (U)	1963 16.75 (U)
3-2359-10	X	X	1954 333 (U)	1958 239 (U)	1954 14.28 (U)	
			1957 195 (U)	1963 226 (U)		
3-2359-11	X	X	1954 131 (U)	1959 130 (U)	1954 19.76 (U)	1958 17.91 (U)
			1955 152 (U)	1960 141 (U)		
			1956 140 (U)	1962 156 (U)		
			1957 137 (U)	1963 149 (U)		
			1958 140 (U)			
3-2359-12	X	X	1954 231 (U)	1959 420 (U)	1954 15.69 (U)	
			1955 370 (U)	1960 413 (U)		
			1956 410 (U)	1962 427 (U)		
			1957 410 (U)	1963 423 (U)		
			1958 408 (U)			

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	FILE NO. IS GMIT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2359-13	X	1955 456 (U)	1955 19.03 (U)	
	X	1960 805 (U)	1959 14.22 (U)	
	X	1962 796 (U)	1960 14.14 (U)	
	X	1963 853 (U)	1958 16.77 (U)	
3-2359-14	X	1955 869 (U)		
	X	1965 650 (B) ANNUAL (U) 1956-60, 1962-63, 1969, 1972	1965 19.06 (U) 1958 17.74 (U)	1965 16.38 (B) 1966 17.33 (B)
3-2359-15	X	1958 746 (U)	1958 18.04 (U)	MONTHLY (B) 1975-77.
	X	1963 959 (U)	1965 15.95 (B)	
	X	1965 724 (U)		
	X	1966 1,100 (B)		
3-2359-16	X	1962 830 (U)		
	X	1969 1,050 (U)		
	X	1965 1,080 (U)	1958 16.96 (U)	
	X	1966 1,600 (B)	1959 14.76 (U)	1965 15.64 (B) 1966 16.32 (B)
	X	1969 1,090 (U)		
	X	1972 1,290 (U)		
3-2359-17	X	1963 1,660 (U)		
	X	1965 850 (U)	1958 17.23 (U)	
	X	1966 1,150 (B)	1959 14.94 (U)	1965 15.80 (B) 1966 16.77 (B)
	X	1968 1,340 (U)	1960 14.51 (U)	
	X	1969 1,110 (U)		
	X	1972 1,300 (U)		
3-2359-18	X	1960 239 (U)		
	X	1962 264 (U)		
3-2400-01Z	-	1955 94 (S)		MONTHLY (B) 1955-83.
3-2400-01	X	1954 100 (U)	1954 17.39 (U)	SEE 3-2400-01Z.
	X	BIMONTHLY (B) 1959-83	MONTHLY (B) 1959-64, 1966-74	
3-2400-02	X	1954 100 (U)	1954 18.24 (U)	Do.
	X	BIMONTHLY (B) 1959-83	MONTHLY (B) 1960-62, 1964-65, 1967, 1969-74	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu-- continued

WELL NUMBER	FLUORIDE G/L	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2400-03	X	1969 66 (B) 1983 48 (U) ANNUAL (B) 1971-75, 1977-83		SEE 3-2400-01Z.
3-2400-04	X	1969 64 (B) 1983 48 (U) ANNUAL (B) 1971-83		Do.
3-2400-05	X			
3-2400-06	X			
3-2401-01	X	1946 308 (U) 1982 130 (U) 1954 248 (U)	1946 18.15 (U) 1954 20.34 (U)	
3-2402-01Z				MONTHLY (B) 1970-83.
3-2402-01	X	1969 104 (B) 1970-83 MONTHLY	MONTHLY (B) 1970-74	SEE 3-2402-01Z.
3-2402-02	X	1969 97 (B) 1970-83 MONTHLY		Do.
3-2455-01	X	1955 26 (U)	1955 22.33 (U) DAILY (B) 1956-84	
3-2455-02	X	1958 35 (U) 1963 41 (U) 1960 113 (U)	1958 19.44 (U)	
3-2455-03				
3-2456-01Z				MONTHLY (B) 1973-84.
3-2456-01	X	1972 60 (B) 1973-74, 1976-84 ANNUAL (B) 1973-84		SEE 3-2456-01Z.
3-2456-02	X	1972 48 (B) 1978 26 (U) ANNUAL (B) 1973-84		Do.
3-2456-03	X	1971 73 (B) 1973-83 ANNUAL (B) 1973-83		Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	LOGS GWT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2456-04				
3-2457-01Z				MONTHLY (B) 1958-84.
3-2457-01	X	1957 93 (U) 1978 30 (U) BIMONTHLY (B) 1959-84	1957 19.73 (U) MONTHLY (B) 1960-62, 1964, 1968-74	SEE 3-2457-01Z.
3-2457-02	X	1957 70 (U) BIMONTHLY (B) 1959-84	1957 18.63 (U) MONTHLY (B) 1960-70	Do.
3-2457-03		1968 29 (U) ANNUAL (B) 1971-79, 1983	1961 16.31 (U)	Do.
3-2457-04	X			
3-2457-05Z				
3-2457-05	X	1970 96 (B)		MONTHLY (B) 1971-84.
3-2457-06	X	1970 85 (B)		SEE 3-2457-05Z.
3-2457-07				Do.
3-2457-08				
3-2457-09	X	1970 95 (B)		SEE 3-2457-05Z.
3-2457-10	X	1970 135 (B) ANNUAL (B) 1972-82, 1984		Do.
3-2457-11	X	1970 138 (B) 1978 44 (U)		Do.
3-2457-12	X	1970 151 (B) 1978 36 (U)		Do.
3-2457-13Z				
3-2457-13	X	ANNUAL (B) 1973-84		MONTHLY (B) 1972-84. SEE 3-2457-13Z.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FT L O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2457-14	X	1971 125 (B) ANNUAL (B) 1973-79, 1981-84		SEE 3-2457-13Z.
3-2457-15	X	1978 22 (U) ANNUAL (B) 1973-76, 1978-84		Do.
3-2458-01	X	1940 218 (U) 1953 193 (U) 1942 166 (U) 1958 172 (S) 1943 179 (U) 1966 152 (B) 1947 134 (U) 1978 144 (U) 1952 193 (U) BIMONTHLY (B) 1959-84	1966 18.89 (B)	MONTHLY (B) 1941-84.
3-2458-02	X	1952 174 (D)	1952 17.20 (D)	
3-2458-03Z		1955 155 (U) 1959 106 (U) 1956 143 (U) 1960 119 (U) 1957 151 (U) 1963 118 (U) 1958 148 (U)		MONTHLY (B) 1955-84.
3-2458-03	X	1953 201 (U) BIMONTHLY (B) 1959-84	1953 17.98 (U) 1958 20.49 (U) MONTHLY (B) 1959-64, 1967-74	SEE 3-2458-03Z. Do.
3-2458-04	X	1953 207 (U) BIMONTHLY (B) 1959-84	1953 17.46 (U) MONTHLY (B) 1960-62, 1964-69, 1971-74	Do.
3-2459-01Z		ANNUAL (U) 1908, 1943-44, 1947, 1950-51, 1953-60, 1963, 1972, 1982		MONTHLY (O) 1905-83.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILE NO. GW T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2459-01ZZ		1957 582 (O) 1980 967 (U) 1958 228 (O) 1981 1,440 (U) 1972 1,230 (U) 1982 900 (U) SEMIANNUAL (O) 1898,1902-09 MONTHLY (O) 1910-19 WEEKLY (O) 1923-53, 1965-71 MONTHLY (O) 1972-82 QUARTERLY (B) 1944, 1947-68 (B) 1969-82	1958 21.70 (O) 1981 16.66 (U) 1980 17.68 (U) 1982 18.87 (U) WEEKLY (O) 1914-27, 1933-34, 1954-57 MONTHLY (O) 1928-32 DAILY (O) 1935, 1939, 1941-46, 1952-53	
3-2459-01		SEE 3-2459-01Z AND 3-2459-01ZZ	SEE 3-2459-01ZZ	SEE 3-2459-01Z.
3-2459-02		do.	do.	Do.
3-2459-03		do.	do.	Do.
3-2459-04		do.	do.	Do.
3-2459-05		do.	do.	Do.
3-2459-06Z		1957 810 (O) 1961 1,130 (U) 1958 295 (O) 1972 1,090 (U) SEMIANNUAL (O) 1906-09 MONTHLY (O) 1910-19 WEEKLY (O) 1923-53, 1965-71 MONTHLY (O) 1972-82 QUARTERLY (B) 1944, 1947, 1950-68 (B) 1969-78	1958 21.70 (O)	
3-2459-06		SEE 3-2459-01Z AND 3-2459-06Z	SEE 3-2459-06Z	SEE 3-2459-01Z.
3-2459-07		do.	do.	Do.
3-2459-08		do.	do.	Do.
3-2459-09		do.	do.	Do.
3-2459-10		do.	do.	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FILE NOIS GLWT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2459-11		SEE 3-2459-012 AND 3-2459-062	SEE 3-2459-062	SEE 3-2459-012.
3-2459-12		do.	do.	Do.
3-2459-13		do.	do.	Do.
3-2459-14		do.	do.	Do.
3-2459-15	X	MONTHLY (U) 1948-67	MONTHLY (U) 1948-67	
3-2459-16	X	1955 191 (U) 1959 169 (U) 1956 170 (U) 1960 174 (U) 1957 171 (U) 1962 188 (U) 1958 167 (U)	1955 19.67 (U) 1958 18.01 (U) 1956 18.71 (U) 1963 17.78 (U) 1957 16.96 (U)	
3-2459-17	X	1957 198 (U) 1960 174 (U) 1958 207 (U) 1962 180 (U) 1959 184 (U) 1963 202 (U)	1957 21.90 (U)	
3-2459-18	X	1963 166 (U)		
3-2459-19Z				MONTHLY (B) 1965-84.
3-2459-19	X	1964 74 (B) 1978 110 (U) BIMONTHLY (B) 1965-84	1964 18.49 (B) 1965-73 MONTHLY (B) 1965-73	SEE 3-2459-19Z.
3-2459-20	X	1964 71 (B) BIMONTHLY (B) 1965-84	1964 17.20 (B) MONTHLY (B) 1967-73	Do.
3-2459-21				MONTHLY (B) 1965-84.
3-2459-22				
3-2459-23Z				MONTHLY (B) 1982-83.
3-2459-23	X		1977 14.56 (B)	SEE 3-2459-23Z.
3-2459-24	X	1983 164 (B)	1977 15.57 (B)	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L L O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2459-25	X	132 (U)		
3-2500-01Z				MONTHLY (B) 1981-84.
3-2500-01	X	36 (B) 1982 36 (B) 1983 40 (B)	17.89 (B)	SEE 3-2500-01Z.
3-2500-02	X	34 (B) 1982 36 (B) 1984		Do.
3-2501-01			1926 19.93 (U) 1930 23.51 (U)	
3-2557-01Z		1947 ANNUAL 26 (S) (U) 1952-55, 1957-60, 1962-63		ANNUAL MONTHLY (P) 1944-76. (B) 1977-84.
3-2557-01	X	MONTHLY (B) 1941-43, 1945-84 ANNUAL (U) 1941-42, 1944-45, 1947, 1949-50, 1972, 1978	1941 21.07 (U)	SEE 3-2557-01Z.
3-2557-02	X	1956 23 (U) 1977 22 (U) 1967 22 (U)	1950 20.64 (B) MONTHLY (B) 1955-65	Do.
3-2557-03	X	1977 19 (B) 1981 25 (U)	1981 19.85 (U)	
3-2558-01	X	MONTHLY (U) 1950-52	1948 25.94 (N) MONTHLY (U) 1950-52 WEEKLY (B) 1951-52	
3-2558-02	X		1948 24.06 (N)	
3-2558-03	X		1948 82.79 (N)	
3-2558-04	X		1948 111.88 (N)	
3-2558-05	X		1948 74.84 (N)	
3-2558-06	X	1949 121 (U) 1951 43 (U)	1948 23.78 (U) 1950 26.43 (U) 1949 27.45 (U) 1951 25.85 (U) SEMI-MONTHLY (B) 1951-52	

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FT L E I O I S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2558-07	X	1949 241 (U) MONTHLY (U) 1950-52	1948 23.55 (U) 1949 30.06 (U) MONTHLY (U) 1950-52 WEEKLY (B) 1951-52	
		MONTHLY (U) 1949-54	MONTHLY (U) 1949-68 WEEKLY (B) 1951-66	
3-2558-08	X	1949 203 (U) 1982 800 (U) 1981 582 (U)	1948 23.56 (U) 1981 18.37 (U) 1949 27.78 (U) 1982 19.40 (U) 1950 26.70 (U) WEEKLY (B) 1951-53, 1955-59, 1962-66	
		1962 91 (U) 1966 110 (N) 1963 102 (U) 1967 108 (U) 1964 107 (U) WEEKLY (B) 1951-84 MONTHLY (N) 1952-61 (U) 1972-81 DAILY (N) 1976-84	CONTINUOUS (U) 1950-51 MONTHLY (B) 1952-57 DAILY (N) 1976-84	ANNUAL (U) 1947-51, MONTHLY (B) 1952-60, (N) 1961-84.
3-2558-09	X	1954 42 (D)	1957 27.80 (U) MONTHLY (B) 1955-74	
3-2600-01	X	1957 28 (U) 1957 28 (S)	1957 23.32 (U) 1963 23.19 (U)	
3-2600-02	X	1980 20 (B) 1982 23 (U)	1982 22.94 (U) 1984 18.37 (U)	
3-2600-03	X	1980 20 (B)	CONTINUOUS (U) 1983-84	
3-2600-04	X	1961 43 (U) 1966 48 (U) 1963 52 (U) QUARTERLY (U) 1972-84		MONTHLY (B) 1967-84.
3-2603-01	X		1952 27.50 (D) 1955 30.21 (B)	
3-2657-01	X		1953 22.43 (U) 1957 29.79 (U) 1955 31.29 (U) MONTHLY (B) 1955-77	
3-2657-02	X	1953 23 (U)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	L I O S G W T	F T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2658-01Z			MONTHLY (O) 1972-82		MONTHLY (O) 1961-84.
3-2658-01	X	X	1961 20 (U) QUARTERLY (B) 1962-77	1961 17.78 (U)	SEE 3-2658-01Z.
3-2658-02	X		QUARTERLY (B) 1962-77		Do.
3-2658-03					
3-2659-01					
3-2701-01	X				
3-2703-01	X		1947 41 (S) 1967 36 (S) 1949 23 (S) 1969 32 (S) ANNUAL (U) 1946-47, 1950-59, 1962-63 MONTHLY (P) 1950-78	1947 24.23 (U) 1961 23.34 (U) MONTHLY (P) 1950-67, 1970-80 (U) 1957-59	MONTHLY (P) 1947-80.
3-2759-01	X		1945 21 (U)		
3-2759-02	X			1954 24.20 (U) 1957 32.30 (U) MONTHLY (B) 1954-65	
3-2800-01Z					MONTHLY (B) 1968-84.
3-2800-01		X	1968 17 (B) BIMONTHLY (B) 1969-84 MONTHLY (U) 1972-79, 1981-83	CONTINUOUS (U) 1970-72 MONTHLY (U) 1973-83	SEE 3-2800-01Z.
3-2800-02		X	1972 18 (U) BIMONTHLY (B) 1969-84	1982 24.05 (U)	Do.
3-2800-03	X	X	1972 18 (B) 1972 18 (U) ANNUAL (B) 1974-81, 1983-84		
3-2800-04	X	X	1975 19 (B) 1982 19 (B) 1978 18 (B) 1983 23 (B) 1981 18 (B)		

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	FLIGHT LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2801-01	X		1955 30.31 (U) MONTHLY (U) 1957-58	
3-2803-01	X		WEEKLY (U) 1957-59	
3-2803-02	X	1958 30 (N) 1959 30 (N)	1962 188.09 (U) 1963 189.34 (U) WEEKLY (U) 1958-59	
3-2803-03	X	1958 27 (U) 1963 25 (B)	1962 200.65 (U) 1963 201.50 (U) WEEKLY (U) 1958-59 MONTHLY (N) 1963-75	MONTHLY (N) 1961-77.
3-2803-04	X		1959 277.50 (U)	
3-2803-05	X	1959 29 (U)	1959 275.75 (U) 1963 199.96 (U) 1962 206.57 (U) MONTHLY (N) 1961-75	MONTHLY (N) 1961-76. (P) 1977-84.
3-2803-06	X	1959 32 (U) 1960 28 (U)	1959 276.83 (U) 1962 272.04 (U) 1960 275.27 (U) 1963 280.15 (U) 1961 275.52 (U) MONTHLY (N) 1962-75	MONTHLY (N) 1961-76.
3-2803-07	X			MONTHLY (P) 1980-81. (B) 1981-82.
3-2805-01				
3-2858-01	X	1984 17 (S)	1984 22.80 (S)	
3-2858-02				
3-2859-01Z				MONTHLY (B) 1981-82.
3-2859-01	X	1978 18 (B) 1982 17 (B)	1978 18.34 (B)	SEE 3-2859-01Z.
3-2859-02	X	1979 16 (B)	CONTINUOUS (U) 1982-83	Do.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu - Continued

WELL NUMBER	F I T L L I E O O I S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2901-01				
3-2901-02			SEE 3-2901-07	SEE 3-2901-07.
3-2901-03			do.	Do.
3-2901-04			do.	Do.
3-2901-05	X			
3-2901-06			SEE 3-2901-07	SEE 3-2901-07.
3-2901-07		1938 20 (S) 1966 24 (N) 1941 20 (B) 1967 20 (N) 1965 20 (A) ANNUAL (U) 1938, 1940, 1944, 1949-50, 1956, 1958-59, 1962-65 MONTHLY (U) 1966-84	DAILY (A) 1936-62 MONTHLY (A) 1963-81 CONTINUOUS (U) 1937-84	MONTHLY (A) 1938-41. DAILY (A) 1942-82.
3-2901-08Z				ANNUAL (P) 1944-48. MONTHLY (B) 1949-56. (B) 1957-84.
3-2901-08	X	1942 23 (U) 1954 21 (U) 1947 19 (U) 1972 20 (U) 1949 22 (S) MONTHLY (B) 1959-64 BIMONTHLY (B) 1968, 1970-84	1941 275.37 (U) 1952 280.53 (U)	SEE 3-2901-08Z.
3-2901-09	X	1949 21 (S) 1958 21 (S) 1953 20 (S) 1966 23 (S) 1955 20 (S) ANNUAL (U) 1948, 1956-57, 1966 MONTHLY (U) 1972-84 BIMONTHLY (B) 1959, 1962-84	1947 275.03 (U) MONTHLY (B) 1959, 1964-74	Do.
3-2901-10	X	1956 18 (U) 1966 19 (U)	SEE 3-2901-07	SEE 3-2901-07.

Table 4. Available data for wells, shafts and tunnels in Southern Oahu--Continued

WELL NUMBER	F L O O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2901-11	X	20 (B)	272.87 (B)	SEE 3-2901-08Z.
3-2901-12			274.80 (B)	
3-2902-01	X	17 (U)	275.86 (S)	
3-2904-01	X	28 (U) 21 (U)		
3-3059-01	X			
3-3059-02	X		752.32 (U)	
3-3100-01	X			
3-3100-02	X	29 (U) 22 (U)	288.00 (U) 282.20 (U)	ANNUAL (N) 1943-53.
			1952 277.20 (U)	
			DAILY (B) 1979-82	

NORTH-CENTRAL OAHU

List of abbreviations

For table 5:

Ground-water bodies:

- KAWAILOA = KawaiLoa ground-water body
- MOKULEIA = Mokuleia ground-water body
- SCHOFIELD = Schofield ground-water body
- WAIALUA = Waialua ground-water body
- WAIANA-E-DIKE = Waianae dike-impounded ground-water body

C/O:

- C = Cased well
- O = Open hole

U = Use of water

- A = Air conditioning
- B = Bottling
- C = Commercial
- E = Power generation
- F = Fire
- H = Domestic
- I = Irrigation
- J = Industrial cooling

S = Status of site

- C = Emergency supply
- O = Observation
- T = Test

- N = Industrial
- P = Public supply
- Q = Aquaculture
- R = Recreation
- S = Stock supply
- T = Institutional
- U = Unused
- Z = Other

- U = Unused
- W = Withdrawal
- Z = Destroyed

For table 6:

- LOG = Log data available
- FLOW = Flow data available
- TEST = Pump test data available

Sources (in parentheses):

- A = U.S. Army
- B = City and County of Honolulu Board of Water Supply
- D = Driller
- K = Kahuku Plantation
- N = U.S. Navy
- O = Oahu Sugar Company
- P = Private
- S = State of Hawaii (various agencies)
- U = U.S. Geological Survey
- W = Waialua Sugar Company
- X = Unknown
- Z = Other

Table 5. General information on the wells, shafts and tunnels in North-central Oahu

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-3102-01	4	SCHOFIELD	965.00	960.00	865.00	20	1973	WAIALUA SGR CO.	I W	SEALED NOV 1975.
3-3102-02	4	do.	972.00	977.00	867.00	20	1973	do.	I W	
3-3203-01	4	SCHOFIELD	859.40	1070.00	910.00	20	1974	WAIALUA SGR CO.	I W	
3-3203-02	4	do.	927.23	1130.00	977.00	20	1975	do.	I W	
3-3205-01	4	WAIANA-E-DIKE	274.00	292.00	291.00	1	1938	WAIALUA SGR CO.	I W	FORMER USGS OBS WELL.
3-3306-01Z										3-3306-01 TO 12.
3-3306-01	4	WAIALUA	50.30	380.00	163.00	12	1927	WAIALUA SGR CO.	I W	
3-3306-02	4	do.	52.00	377.00	166.00	12	1927	do.	I W	
3-3306-03	4	do.	52.92	376.00	163.00	12	1927	do.	I W	
3-3306-04	4	do.	55.57	400.00	165.00	12	1927	do.	I W	
3-3306-05	4	do.	50.12	377.00	166.00	12	1927	do.	I W	
3-3306-06	4	do.	47.15	381.00	154.00	12	1927	do.	I W	
3-3306-07	4	do.	48.87	376.00	163.00	12	1927	do.	I W	
3-3306-08	4	do.	45.76	375.00	155.00	12	1927	do.	I W	
3-3306-09	4	do.	45.33	375.00	153.00	12	1927	do.	I W	
3-3306-10	4	do.	49.37	379.00	106.00	12	1927	do.	I W	
3-3306-11	4	do.	47.35	378.00	168.00	12	1927	do.	I W	
3-3306-12	4	do.	50.04	377.00	166.00	12	1927	do.	I W	
3-3307-01Z										3-3307-01 TO 14.
3-3307-01	4	WAIALUA	29.00	336.00	126.00	12	1899	WAIALUA SGR CO.	P W	
3-3307-02	4	do.	27.00	315.00	114.00	12	1899	do.	P W	
3-3307-03	4	do.	26.00	310.00	265.00	10	1899	do.	P W	
3-3307-04	4	do.	26.00	317.00	118.00	10	1899	do.	P W	
3-3307-05	4	do.	26.00	291.00	116.00	10	1899	do.	P W	
3-3307-06	4	do.	25.00	328.00	124.00	10	1899	do.	P W	
3-3307-07	4	do.	26.00	294.00	113.00	12	1899	do.	P W	
3-3307-08	4	do.	29.00	324.00	157.00	12	1915	do.	P W	
3-3307-09	4	do.	32.00	334.00	121.00	12	1915	do.	P W	
3-3307-10	4	do.	28.00	319.00	128.00	12	1915	do.	P W	
3-3307-11	4	do.	27.00	315.00	131.00	12	1917	do.	P W	
3-3307-12	4	do.	27.00	321.00	118.00	10	1917	do.	P W	
3-3307-13	4	do.	26.00	323.00	111.00	12	1917	do.	P W	
3-3307-14	4	do.	28.00	324.00	118.00	12	1924	do.	P W	
3-3307-15	4	do.	108.00	112.00	108.00	2	1939	do.	P W	

Table 5. General information on the wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	GROUND- WATER BODY		ALT. (ft)	WELL		CASING		YEAR COMP	OWNER	U	S	REMARKS
	MAP NO.	WATER BODY		DEPTH (ft)	C	DEPTH (ft)	DIA. (in.)					
3-3307-16	4	MOKULEIA	185.00	337.00	C	265.00	4	1947	WAIALUA SGR CO.	U	T	
3-3307-17	4	do.	221.00	323.00	C	230.00	4	1963	do.	U	T	
3-3307-18	4	do.	221.00	423.00	C	6.00	10	1964	do.	U	T	
3-3307-19	4	do.	202.00	300.00	C	-----	16	1984	STATE	U	T	
3-3308-01	4	MOKULEIA	80.00	100.00	C	50.00	4	1962	USGS	U	O	
3-3308-02	4	do.	336.00	430.00	C	360.00	12	1968	T SINGLEHURST	I	W	
3-3310-01	1	MOKULEIA	470.00	575.00	C	518.00	12	1980	MOKULEIA HMSTD	P	W	
3-3310-02	1	do.	366.60	451.00	C	400.00	14	1980	do.	P	W	
3-3310-03	1	do.	186.60	302.00	C	202.00	12	1980	do.	P	W	
3-3314-03	1	WAIANA-E-DIKE	1146.00	1178.00	C	1176.00	12	1971	US ATR FORCE	P	W	
3-3404-01	4	WAIALUA	227.00	267.00	C	265.00	1	1952	WAIALUA SGR CO.	P	W	
3-3404-02	4	do.	249.00	-----	.	-----	-----	1955	do.	P	W	SHAFT 17.
3-3405-01Z												3-3405-01 TO 02.
3-3405-01	4	WAIALUA	196.00	337.00	C	219.00	16	1955	HONOLULU BMS	P	W	
3-3405-02	4	do.	197.00	343.00	C	221.00	16	1955	do.	P	W	USGS NETWORK WELL.
3-3405-03Z												3-3405-03 TO 04.
3-3405-03	4	WAIALUA	207.00	336.00	C	236.00	12	1979	HONOLULU BMS	P	W	
3-3405-04	4	do.	208.00	336.00	C	236.00	12	1979	do.	P	W	
3-3406-01	4	WAIALUA	5.00	201.00	C	114.00	6	1898	WAIALUA SGR CO.	I	W	
3-3406-02	4	do.	14.00	221.00	C	89.00	10	1898	do.	I	W	
3-3406-03	4	do.	9.00	198.00	C	61.00	10	1946	K KAWAMATA	I	W	
3-3406-04	4	do.	35.00	60.00	C	39.00	12	1947	WAIALUA SGR CO.	U	O	BMS OBS WELL.
3-3406-05	4	do.	28.00	100.00	C	52.00	8	1957	E NAKAMA	I	W	
3-3406-06	4	do.	12.00	100.00	C	71.00	8	1957	S KUNIHIRO	I	W	
3-3406-07	4	do.	16.00	50.00	C	14.00	4	1962	USGS	U	O	
3-3406-08	4	do.	14.00	67.50	C	58.00	4	1973	POLYNESIAN INC.	Q	W	
3-3407-01Z												3-3407-01, 11 TO 12, 18 TO 19.
3-3407-01	4	WAIALUA	14.00	331.00	C	104.00	8	1923	WAIALUA SGR CO.	-	Z	SEALED MAR 1981.
3-3407-02	4	do.	8.00	-----	C	-----	6	1924	LOPEZ ESTATE	I	W	
3-3407-03	4	do.	8.00	464.00	C	350.00	8	1891	WAIALUA SGR CO.	-	Z	SEALED APR 1939.

Table 5. General information on the wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-		ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
		WATER BODY			DEPTH (ft)	C	DEPTH (ft)						
3-3407-04Z	4	WAIALUA		12.00	300.00	C	244.00	10	1898	WAIALUA SGR CO.	I W		3-3407-04 TO 06, 14 TO 15.
3-3407-05	4	do.		12.00	280.00	C	111.00	12	1899	do.	I W		
3-3407-06	4	do.		12.00	280.00	C	245.00	10	1920	do.	I W		3-3407-07-10, 13, 16-17, 20-21.
3-3407-07Z	4	WAIALUA		30.00	261.00	C	68.00	8	1899	WAIALUA SGR CO.	I W		
3-3407-08	4	do.		30.00	236.00	C	111.00	12	1899	do.	I W		
3-3407-09	4	do.		30.00	259.00	C	245.00	10	1899	do.	I W		
3-3407-10	4	do.		30.00	265.00	C	-----	-----	1900	do.	I W		
3-3407-11	4	do.		16.00	295.00	C	48.00	8	1913	do.	I W		
3-3407-12	4	do.		15.00	231.00	C	234.00	12	1920	do.	I W		
3-3407-13	4	do.		34.00	273.00	C	139.00	12	1920	do.	I W		
3-3407-14	4	do.		12.00	320.00	C	-----	12	1920	do.	I W		
3-3407-15	4	do.		12.00	320.00	C	-----	12	1920	do.	I W		
3-3407-16	4	do.		33.00	290.00	C	231.00	12	1923	do.	I W		
3-3407-17	4	do.		34.00	293.00	C	74.00	12	1923	do.	I W		
3-3407-18	4	do.		17.00	306.00	C	80.00	8	1923	do.	I W		
3-3407-19	4	do.		18.00	301.00	C	80.00	8	1923	do.	I W		
3-3407-20	4	do.		34.00	268.00	C	231.00	12	1933	do.	I W		
3-3407-21	4	do.		33.00	270.00	C	231.00	12	1933	do.	I W		
3-3407-22	4	do.		15.00	-----	C	-----	-----	1939	do.	I W		
3-3407-23	4	do.		45.00	81.00	C	70.00	3	1939	do.	I W		SEALED 1939.
3-3407-24	4	do.		45.00	81.00	C	60.00	3	1939	do.	I W		
3-3407-25	4	do.		63.00	320.00	C	232.00	8	1951	C & C HONO	I W		USGS NETWORK WELL.
3-3407-26	4	do.		8.00	20.00	C	6.00	4	1962	USGS	I W		
3-3407-27	4	do.		7.00	100.00	C	13.00	4	1962	do.	I W		
3-3407-28	4	do.		15.00	40.00	C	20.00	4	1962	do.	I W		
3-3407-29	4	do.		17.00	40.00	C	4.00	72	1964	WAIALUA SGR CO.	U W		USGS NETWORK WELL.
3-3407-30	4	do.		15.00	40.00	C	4.00	72	1965	do.	I W		
3-3407-31	4	do.		13.00	40.00	C	4.00	72	1966	do.	I W		
3-3407-32	4	do.		12.00	40.00	C	4.00	72	1966	do.	I W		
3-3407-33	4	do.		8.00	-----	C	-----	72	1970	do.	I W		
3-3408-01	4	MOKULEIA		5.00	544.00	C	475.00	8	1890	J MENDONCA	Z		SEALED AUG 1937.
3-3408-02	4	do.		8.00	550.00	C	463.00	10	1890	WAIALUA SGR CO.	Z		SEALED JUL Y 1950.
3-3408-03	4	do.		12.00	447.00	C	396.00	8	1890	do.	Z		SEALED AUG 1950.
3-3408-04	4	do.		18.00	528.00	C	405.00	10	1890	do.	Z		SEALED FEB 1959.
3-3408-05	4	do.		18.00	398.00	C	391.00	8	1890	do.	Z		SEALED OCT 1958.
3-3408-06	4	do.		20.00	700.00	C	-----	-----	1891	do.	Z		ABANDONED/NO WATER.
3-3408-07	4	do.		36.00	80.00	C	32.00	2	1962	USGS	U O		

Table 5. General information on the wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C							
3-3409-01Z												
3-3409-01	1	MOKULEIA	16.60	488.00	C	364.00	6	1914	WAIALUA SGR CO.	-	Z	3-3409-01, 13. SEALED SEPT 1939.
3-3409-02	1	do.	10.00	396.00	C	338.00	6	1887	J MENDONCA	-	Z	SEALED APR 1947.
3-3409-03	1	do.	16.00	587.00	C	500.00	6	1890	WAIALUA SGR CO.	-	Z	SEALED SEPT 1939.
3-3409-04	1	do.	13.00	560.00	C	500.00	6	1890	do.	-	Z	SEALED FEB 1956.
3-3409-05	1	do.	16.00	575.00	C	501.00	6	1890	do.	-	Z	SEALED APR 1939.
3-3409-06	1	do.	11.00	637.00	C	-----	10	1890	J MENDONCA	-	Z	SEALED AUG 1937.
3-3409-07	1	do.	16.00	587.00	C	-----	8	1890	do.	-	Z	SEALED AUG 1937.
3-3409-08	1	do.	7.00	584.00	C	456.00	8	1890	WAIALUA SGR CO.	-	Z	SEALED MAR 1949.
3-3409-09	1	do.	7.00	528.00	C	243.00	4	1890	J MENDONCA	U	U	
3-3409-10	1	do.	18.00	427.00	C	-----	7	1890	WAIALUA SGR CO.	-	Z	SEALED AUG 1939.
3-3409-11	1	do.	11.00	560.00	C	472.00	4	1890	do.	-	Z	SEALED JULY 1946.
3-3409-12	1	do.	13.00	533.00	C	483.00	8	1899	J MENDONCA	-	Z	SEALED MAY 1947.
3-3409-13	1	do.	16.50	549.00	C	479.00	12	1913	WAIALUA SGR CO.	I	W	
3-3409-14	1	do.	12.00	533.00	C	486.00	8	1917	do.	-	Z	SEALED JULY 1959.
3-3409-15Z												
3-3409-15	1	MOKULEIA	17.00	560.00	C	-----	10	1918	WAIALUA SGR CO.	I	W	3-3409-15, 17.
3-3409-16	1	do.	8.00	518.00	C	440.00	VAR	1926	J MENDONCA	H	W	USGS NETWORK/DIA. 10 TO 8 IN.
3-3409-17	1	do.	17.00	587.00	C	516.00	12	1937	WAIALUA SGR CO.	I	W	
3-3409-18	1	do.	21.00	40.00	C	17.00	4	1962	USGS	U	O	
3-3409-19	1	do.	9.00	60.00	C	16.00	4	1962	do.	U	O	
3-3409-20	1	do.	30.00	60.00	O	-----	-----	1962	do.	-	Z	ABANDONED.
3-3409-21	1	do.	40.00	10.00	O	-----	-----	1962	do.	-	Z	Do.
3-3409-22	1	do.	40.00	20.00	O	-----	-----	1962	do.	-	Z	Do.
3-3409-23	1	do.	45.00	30.00	O	-----	-----	1962	do.	-	Z	Do.
3-3410-01	1	MOKULEIA	11.00	426.00	C	397.00	6	1934	MOKULEIA RANCH	P	W	
3-3410-02	1	do.	12.00	450.00	C	416.00	8	1934	do.	-	Z	SEALED JAN 1959.
3-3410-03	1	do.	30.00	-----	C	-----	10	1934	do.	I	W	
3-3410-04	1	do.	18.00	488.00	C	432.00	6	1934	do.	-	Z	SEALED AUG 1959.
3-3410-05	1	do.	15.00	506.00	C	466.00	8	1934	do.	I	W	
3-3410-06	1	do.	17.00	537.00	C	475.00	10	1934	do.	-	Z	
3-3410-07	1	do.	16.00	421.00	C	-----	8	1934	do.	-	Z	SEALED SEPT 1939.
3-3410-08	1	do.	11.54	447.00	C	447.00	1	1890	WAIALUA SGR CO.	U	O	USGS NETWORK WELL.
3-3410-09	1	do.	11.00	443.00	C	388.00	6	1890	do.	-	Z	SEALED JULY 1963.
3-3410-10	1	do.	217.00	300.00	C	235.00	7	1946	DILLINGHAM CORP.	H	W	
3-3410-11	1	do.	7.00	90.00	C	17.00	4	1962	USGS	C	W	SEALED SEPT 1948.
3-3410-12	1	do.	35.00	30.00	O	-----	-----	1962	do.	-	Z	ABANDONED.

Table 5. General information on the wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY		ALT. (ft)	WELL DEPTH (ft)		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP.	OWNER	U S	REMARKS
		WATER	DO.		C	0						
3-3411-01	1	MOKULEIA		14.00	-----	C	-----	10	1934	US AIR FORCE	U	
3-3411-02	1	do.		14.00	496.00	C	385.00	8	1934	WAIALUA SGR CO.	-	SEALED NOV 1943.
3-3411-03	1	do.		16.00	507.00	C	436.00	8	1934	do.	-	SEALED NOV 1943.
3-3411-04Z												3-3411-04, 06 TO 11, 13.
3-3411-04	1	MOKULEIA		18.00	520.00	C	407.00	12	1899	WAIALUA SGR CO.	I	
3-3411-05	1	do.		15.00	325.00	C	132.00	6	1894	US AIR FORCE	-	LOST.
3-3411-06	1	do.		20.00	538.00	C	405.00	12	1899	WAIALUA SGR CO.	I	
3-3411-07	1	do.		18.00	536.00	C	404.00	12	1900	do.	I	
3-3411-08	1	do.		18.00	521.00	C	489.00	10	1900	do.	I	
3-3411-09	1	do.		14.00	482.00	C	400.00	6	1900	do.	I	
3-3411-10	1	do.		18.00	537.00	C	411.00	10	1900	do.	I	
3-3411-11	1	do.		20.00	498.00	C	421.00	12	1900	do.	I	
3-3411-12	1	do.		14.00	414.00	C	360.00	6	1907	do.	-	SEALED NOV 1943.
3-3411-13	1	do.		16.00	536.00	C	409.00	12	1916	do.	I	
3-3411-14	1	do.		42.00	100.00	C	21.00	4	1962	USGS	U	
3-3411-15	1	do.		19.00	100.00	C	38.00	4	1962	do.	-	DESTROYED 1975.
3-3412-01	1	MOKULEIA		18.00	241.00	C	-----	9	1894	US AIR FORCE	P	
3-3412-02	1	do.		18.00	241.00	C	76.00	12	1920	do.	P	
3-3412-03	1	do.		13.00	20.00	C	20.00	4	1962	USGS	U	
3-3414-01	1	MOKULEIA		18.00	50.00	C	25.00	2	1962	USGS	-	LOST NOV 1963.
3-3504-01	4	KAWAILOA		343.00	344.00	C	340.00	1	1938	WAIALUA SGR CO.	-	ABANDONED 1967.
3-3505-01Z												3-3505-01 TO 20.
3-3505-01	4	WAIALUA		15.02	428.00	C	-----	12	1899	WAIALUA SGR CO.	I	
3-3505-02	4	do.		60.00	348.00	C	-----	12	1899	do.	I	
3-3505-03	4	do.		60.00	350.00	C	-----	12	1899	do.	I	
3-3505-04	4	do.		60.00	350.00	C	-----	12	1899	do.	I	
3-3505-05	4	do.		60.00	350.00	C	-----	12	1899	do.	I	
3-3505-06	4	do.		60.00	343.00	C	-----	12	1900	do.	I	
3-3505-07	4	do.		60.00	338.00	C	338.00	12	1900	do.	I	
3-3505-08	4	do.		60.00	350.00	C	-----	12	1900	do.	I	
3-3505-09	4	do.		60.00	350.00	C	-----	12	1900	do.	I	
3-3505-10	4	do.		60.00	350.00	C	-----	12	1900	do.	I	
3-3505-11	4	do.		60.00	350.00	C	-----	12	1900	do.	I	
3-3505-12	4	do.		60.00	400.00	C	-----	12	1902	do.	I	
3-3505-13	4	do.		60.00	400.00	C	-----	12	1902	do.	I	

Table 5. General information on the wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY		ALT. (ft)	WELL DEPTH (ft)		CASING DEPTH (ft)		DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
		WATER	BODY		DEPTH	C	DEPTH	O						
3-3505-14	4	WAIALUA		60.00	400.00	C	-----	12	1902	WAIALUA SGR CO.	I	W		
3-3505-15	4	do.		60.00	400.00	C	-----	12	1902	do.	I	W		
3-3505-16	4	do.		60.00	402.00	C	-----	12	1902	do.	I	W		
3-3505-17	4	do.		60.00	400.00	C	-----	12	1902	do.	I	W		
3-3505-18	4	do.		60.00	400.00	C	-----	12	1913	do.	I	W		
3-3505-19	4	do.		60.00	400.00	C	-----	12	1913	do.	I	W		
3-3505-20	4	do.		60.00	400.00	C	-----	12	1913	do.	I	W		
3-3505-21	4	KAWAIILOA		65.00	311.00	O	-----	17	1952	ANAHULA RANCH	-	Z		DESTROYED/NO WATER.
3-3505-22	4	WAIALUA		79.00	306.00	C	272.00	VAR	1952	do.	S	W		HOLE DIA. 12.5 TO 8 IN.
3-3505-23	4	KAWAIILOA		20.00	35.00	C	33.00	2	1962	USGS	U	O		
3-3506-01	4	WAIALUA		8.00	270.00	C	178.00	6	1883	WAIALUA SGR CO.	I	W		
3-3506-02	4	do.		10.00	221.00	C	65.00	8	1884	do.	-	Z		SEALED JUNE 1963.
3-3506-03Z														3-3506-03 TO 04.
3-3506-03	4	WAIALUA		24.54	102.00	C	19.00	13	1900	WAIALUA SGR CO.	I	W		USGS NETWORK WELL.
3-3506-04	4	do.		21.72	119.00	C	37.00	12	1923	do.	I	W		USGS NETWORK WELL.
3-3506-05	4	do.		20.00	163.00	C	68.00	12	1925	HONOLULU BMS	-	Z		SEALED 1978.
3-3506-06	4	do.		6.77	250.00	C	101.00	8	1946	T ENDOW	I	W		
3-3506-07	4	do.		24.00	30.00	C	30.00	8	1958	M YAMAUCHI	I	W		
3-3506-08	4	do.		10.00	100.00	C	2.00	4	1962	USGS	U	O		
3-3506-09	4	KAWAIILOA		20.00	40.00	C	18.00	4	1962	do.	U	O		
3-3507-01	4	WAIALUA		10.00	100.00	O	-----	-----	1962	USGS	-	Z		ABANDONED/NO WATER.
3-3511-01	1	MOKULEIA		10.00	50.00	C	20.00	4	1962	USGS	U	O		
3-3605-01Z														3-3605-01 TO 25.
3-3605-01	4	KAWAIILOA		4.84	48.50	C	9.00	12	1900	WAIALUA SGR CO.	-	Z		SEALED DEC 1947.
3-3605-02	4	do.		8.00	22.00	O	-----	-----	1900	do.	I	W		
3-3605-03	4	do.		8.00	38.00	C	12.00	10	1900	do.	I	W		USGS NETWORK WELL.
3-3605-04	4	do.		4.84	54.00	C	14.66	10	1900	do.	I	W		
3-3605-05	4	do.		8.00	45.00	C	4.00	12	1900	do.	-	Z		SEALED DEC 1947.
3-3605-06	4	do.		8.00	44.00	C	31.00	10	1900	do.	I	W		
3-3605-07	4	do.		8.00	41.00	C	19.00	10	1900	do.	I	W		
3-3605-08	4	do.		8.00	40.00	C	21.00	10	1900	do.	I	W		
3-3605-09	4	do.		8.00	44.00	C	6.00	12	1900	do.	-	Z		SEALED DEC 1947.
3-3605-10	4	do.		8.00	35.00	C	12.00	12	1900	do.	-	Z		SEALED DEC 1947.
3-3605-11	4	do.		8.00	62.00	C	58.00	10	1900	do.	-	Z		ABANDONED.
3-3605-12	4	do.		8.00	42.00	C	21.00	10	1900	do.	I	W		
3-3605-13	4	do.		8.00	45.00	C	22.00	10	1900	do.	I	W		

Table 5. General information on the wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft.)	WELL			CASING			YEAR COMP.	OWNER	U S	REMARKS
				DEPTH (ft)	C	O	DEPTH (ft)	DEPTH (ft)	DIA. (in.)				
3-3605-14	4	KAWAIILOA	10.00	60.00	C		12.00		12	1955	WAIALUA SGR CO.	- Z	SEALED JULY 1955.
3-3605-15	4	do.	7.00	45.00	C		16.00		12	1955	do.	I W	
3-3605-16	4	do.	7.00	45.00	C		10.00		12	1955	do.	I W	
3-3605-17	4	do.	8.00	48.00	C		11.00		12	1955	do.	I W	
3-3605-18	4	do.	6.00	48.00	C		8.00		12	1955	do.	I W	
3-3605-19	4	do.	6.00	45.77	C		10.00		12	1955	do.	I W	
3-3605-20	4	do.	6.00	47.76	C		9.00		12	1955	do.	I W	
3-3605-21	4	do.	5.56	50.44	C		10.00		12	1955	do.	I W	USGS NETWORK WELL.
3-3605-22	4	do.	5.80	48.90	C		13.00		12	1955	do.	I W	
3-3605-23	4	do.	6.00	46.00	C		180.00		2	1955	do.	U O	
3-3605-24	4	do.	12.30	263.00	C		11.00		12	1955	do.	U O	
3-3605-25	4	do.	6.00	32.70	C		20.00		4	1962	USGS	U O	
3-3605-26	4	do.	30.00	50.00	C					1962	do.	- Z	ABANDONED 1962.
3-3605-27	4	do.	10.00	20.00	O					1962	do.	- Z	ABANDONED 1962.
3-3704-01	3	KAWAIILOA	32.00		-					1956	MEADOW GOLD	N W	SHAFT 18.
3-3705-01	4	KAWAIILOA	16.00	29.00	C		10.00		6	1958	TROWER	I W	
3-3803-01	3	KAWAIILOA	42.00		-					1946	HONOLULU BHS	U T	SHAFT 15.
3-3803-02	3	do.	36.00	105.00	C				6	1949	T PAI	U U	
3-3902-01	3	KAWAIILOA	499.00	554.00	C		425.00		12	1946	FINANCE FACTORS	H W	
3-3902-02	3	do.	511.00	560.00	C		530.00		3	1956	CAPITAL INV	U T	
3-3903-01	3	KAWAIILOA	50.00	57.00	C		57.00		8	1956	T NIIMI	U U	
3-4002-01	3	KAWAIILOA	30.00	50.00	C		36.00		6	1939	W RATHBURN	U U	
3-4002-02	3	do.	21.00	85.00	C		72.00		5	1939	do.	U U	
3-4002-03	3	do.	21.00	100.00	C				6	1941	do.	U U	
3-4002-042	3	KAWAIILOA	66.00	125.00	C		72.00		7	1950	HONOLULU BHS	P W	3-4002-04 TO 05.
3-4002-04	3	do.	70.00	140.00	C		102.00		10	1949	do.	P W	
3-4002-05	3	do.	32.00	109.00	C		49.00		8	1955	F HENRY	I W	
3-4002-06	3	do.	20.00	20.00	C		20.00		8	1956	J WELCH	- Z	ABANDONED 1962.
3-4003-01	3	KOOLAU-DIKE	46.00	64.00	C		44.00		6	1941	M NAKAMURA	- Z	LOST 1944.

Table 5. General information on the wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-		WELL		CASING		YEAR COMP	OWNER	U	S	REMARKS
		WATER BODY	ALT. (ft)	DEPTH (ft)	DIA. (in.)	DEPTH (ft)	DIA. (in.)					
3-4101-01	3	KOOLAU-DIKE	22.00	78.00	C	35.00	8	1921	STATE	-	Z	SEALED OCT 1960.
3-4101-02	3	do.	22.00	83.00	C	20.00	8	1921	do.	-	Z	SEALED OCT 1960.
3-4101-03	3	do.	22.00	61.00	C	36.00	8	1921	do.	U	O	USGS NETWORK WELL.
3-4101-04Z												3-4101-04 TO 05.
3-4101-04	7	KOOLAU-DIKE	67.00	100.00	C	5.00	6	1938	STATE	-	Z	SEALED OCT 1960.
3-4101-05	7	do.	75.00	90.00	C	65.00	8	1939	do.	U	U	
3-4101-06	7	do.	86.00	105.00	C	93.00	6	1941	do.	U	U	
3-4101-07	7	do.	81.00	151.00	C	94.00	14	1945	HONOLULU BMS	P	W	
3-4101-08	7	do.	63.00	141.00	C	-----	10	1957	do.	P	W	USGS NETWORK WELL.
3-4101-09	7	do.	19.00	131.00	C	52.00	8	1957	Y KOKI	I	W	
3-4101-10	3	KAWAILOA	58.00	100.00	C	77.00	10	1959	UNIV HAWAII	H	W	
3-4101-11	3	KOOLAU-DIKE	82.00	263.00	C	148.00	VAR	1970	HONOLULU BMS	P	W	CASING DIA. 16 TO 12 IN.

Table 6. Available data for wells, shafts and tunnels in North-central Oahu

WELL NUMBER	DEPTH (FT)	CHLORIDE (mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3102-01	X	1973 965 (S)	1973 269.63 (U)	
3-3102-02		MONTHLY (M) 1974-84		MONTHLY (M) 1973-84.
3-3203-01	X	MONTHLY (M) 1975-84		MONTHLY (M) 1975-84.
3-3203-02	X	MONTHLY (M) 1975-84		MONTHLY (M) 1976-84.
3-3205-01	X	1964 23 (U) MONTHLY (U) 1938-56	1963 16.95 (U) MONTHLY (U) 1938-56	
3-3306-012		WEEKLY (M) 1930, 1938-48, 1951-62, 1964-68, 1970-84	ANNUAL (M) 1930-33, 1944-45, 1950, 1958, 1962-63, 1974	MONTHLY (M) 1928-84.
3-3306-01	X	SEE 3-3306-012	SEE 3-3306-012	SEE 3-3306-012.
3-3306-02	X	do.	do.	Do.
3-3306-03	X	do.	do.	Do.
3-3306-04	X	do.	do.	Do.
3-3306-05	X	do.	do.	Do.
3-3306-06	X	do.	do.	Do.
3-3306-07	X	do.	do.	Do.
3-3306-08	X	do.	do.	Do.
3-3306-09	X	do.	do.	Do.
3-3306-10	X	do.	do.	Do.
3-3306-11	X	do.	do.	Do.
3-3306-12	X	do.	do.	Do.

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	F L O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)		PUMPAGE
			WEEKLY	ANNUAL	
3-3307-01Z		(W) 1920, 1923-24, 1926-62, 1964-68, 1970-84	MONTHLY	MONTHLY	(W) 1914-16, 1924-84.
3-3307-01	X	1947 186 (W) 1974 670 (U)	1947 10.08 (W) 1974 11.75 (U)		SEE 3-3307-01Z.
3-3307-02	X	1947 179 (W) 1974 440 (U)	1947 10.05 (W) 1974 11.59 (U)		Do.
3-3307-03	X	1947 197 (W) 1974 345 (U)	1947 10.04 (W) 1974 11.66 (U)		Do.
3-3307-04	X	1947 117 (W) 1974 222 (U)	1947 10.56 (W) 1974 11.67 (U)		Do.
3-3307-05	X	1947 119 (W) 1974 128 (U)	1947 10.56 (W) 1974 11.68 (U)		Do.
3-3307-06	X	1947 121 (W) 1974 120 (U)	1947 10.52 (W) 1974 11.67 (U)		Do.
3-3307-07		1947 114 (W)	1947 10.02 (W)		Do.
3-3307-08	X	1947 191 (W)	1947 10.04 (W)		Do.
3-3307-09	X	1947 186 (W) 1974 125 (U)	1947 10.05 (W) 1974 11.67 (U)		Do.
3-3307-10	X	1947 186 (W)	1947 10.21 (W)		Do.
3-3307-11		1947 109 (W)	1947 10.18 (W)		Do.
3-3307-12		SEE 3-3307-01Z	SEE 3-3307-01Z		Do.
3-3307-13		1947 146 (W)	1947 10.13 (W)		Do.
3-3307-14		1947 109 (W)	1947 10.00 (W)		Do.
3-3307-15	X	1939 165 (W) 1940 198 (W)	1939 42.58 (W) 1940 31.96 (W)		
3-3307-16	X	1947 256 (D) 1954 197 (W) 1952 197 (W) 1955 208 (W) 1953 208 (W) MONTHLY (U) 1974-78	MONTHLY (U) 1962-65, 1974-78		

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FLUORIDES G/M T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3307-17	X		MONTHLY (U) 1964-65	
3-3307-18	X		MONTHLY (U) 1964-65	
3-3307-19		1984 39 (S)		
3-3308-01	X		MONTHLY (U) 1962-65	
3-3308-02	X	1968 52 (U)		
3-3310-01	X	1980 34 (D)	1980 460.00 (D)	
3-3310-02	X	1980 32 (D)	1980 357.50 (D)	
3-3310-03	X	1981 91 (D)	1981 176.70 (D)	
3-3314-03	X	1971 280 (B)	1971 18.48 (B)	
3-3404-01	X		1963 11.00 (U) 1964 10.71 (U) 1974 11.37 (U) 1975 11.35 (U)	
3-3404-02		WEEKLY (W) 1955-62, 1964-68, 1970-84	1962 11.06 (U) 1963 11.29 (U) 1964 9.00 (U)	MONTHLY (W) 1954-84.
3-3405-012		WEEKLY (W) 1957-62, 1964-68, 1970-84		MONTHLY (B) 1956-84.
3-3405-01	X	1955 120 (D) 1964 82 (U) BIMONTHLY (B) 1959-71	1955 11.76 (D) 1964 11.10 (U) 1965 10.80 (U)	SEE 3-3405-012.
3-3405-02	X	1955 105 (D) MONTHLY (U) 1972-84	1955 12.19 (D)	Do.
3-3405-032				MONTHLY (B) 1981-84.
3-3405-03	X			SEE 3-3405-032.
3-3405-04	X			Do.

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	F T L I E O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3406-01		MONTHLY (U) 1912-74	MONTHLY (U) 1911-78	
3-3406-02		ANNUAL (W) 1923-48, 1962, 1964-68 (U) 1944-45, 1947, 1950-60, 1972, 1974	ANNUAL (W) 1930-45, 1947 (U) 1962-63, 1974-75	MONTHLY (W) 1914-16, 1924-28, 1930-84.
3-3406-03	X	ANNUAL (U) 1946-63 MONTHLY (U) 1967-70, 1972, 1974-78	1946 10.77 (U) MONTHLY (U) 1962-65, 1968-69, 1974-78	
3-3406-04	X		DAILY (B) 1947-75 CONTINUOUS (U) 1961-65, 1971	
3-3406-05	X	1957 207 (U) 1960 150 (U) 1958 205 (U) 1962 160 (U) 1959 172 (U) 1972 140 (U)	1957 10.96 (D)	MONTHLY (B) 1979-84.
3-3406-06	X	1957 135 (U) 1962 100 (U) 1958 127 (U) 1963 115 (U) 1959 106 (U) 1972 126 (U) 1960 94 (U)	1974 11.92 (U) 1975 11.84 (U) ANNUAL (U) 1957-62 MONTHLY (U) 1962-65	
3-3406-07	X	MONTHLY (U) 1962-65	MONTHLY (U) 1962-65	
3-3406-08	X		1974 11.89 (U) 1975 11.75 (U)	MONTHLY (B) 1977-84.
3-3407-01Z		MONTHLY (W) 1951-62, 1964-68, 1970-84	ANNUAL (W) 1930-48, 1962-63, 1974-75	MONTHLY (W) 1914-16, 1924-84.
3-3407-01	X	1947 161 (U)	1947 10.00 (U) 1974 12.15 (U)	SEE 3-3407-01Z.
3-3407-02		ANNUAL (W) 1924, 1935-45 (U) 1939, 1942, 1944-45, 1947, 1950-54, 1956-63, 1966, 1972	ANNUAL (U) 1939, 1942, 1944-45, 1947, 1954, 1956-60, 1962, 1966, 1974-75	
3-3407-03				

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FT L O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3407-04Z		MONTHLY (M) 1951-62, 1964-68, 1970-84		MONTHLY (M) 1914-16, 1924-84.
3-3407-04		SEE 3-3407-04Z	1925 25.24 (M)	SEE 3-3407-04Z.
3-3407-05		do.	1925 25.34 (U)	Do.
3-3407-06		do.	1925 25.34 (M)	Do.
3-3407-07Z	X	MONTHLY (M) 1925-29, 1932-36, 1951-62, 1964-68, 1970-84	CONTINUOUS (U) 1974 ANNUAL (M) 1937-46	MONTHLY (M) 1924-84.
3-3407-07		1924 110 (M) 1947 135 (U)	1924 8.10 (M) 1947 10.31 (U)	SEE 3-3407-07Z.
3-3407-08		1924 110 (M) 1947 125 (U)	1924 8.70 (M) 1947 10.04 (U)	Do.
3-3407-09		1924 85 (M) 1947 135 (U)	1924 8.30 (M) 1947 9.99 (U)	Do.
3-3407-10		1924 114 (M) 1947 166 (U)	1924 8.30 (M) 1947 9.98 (U)	Do.
3-3407-11	X	1947 132 (U)	1947 10.04 (U)	SEE 3-3407-01Z.
3-3407-12	X	1947 193 (U)	1947 9.71 (U)	Do.
3-3407-13	X	1924 302 (M) 1947 914 (U)	1924 8.70 (M) 1947 9.84 (U) CONTINUOUS (U) 1964-65	SEE 3-3407-07Z.
3-3407-14		SEE 3-3407-04Z	1925 25.40 (M)	SEE 3-3407-04Z.
3-3407-15		do.	1925 25.34 (M)	Do.
3-3407-16	X	1924 129 (M) 1947 353 (U)	1924 8.70 (M) 1947 9.86 (U)	SEE 3-3407-07Z.
3-3407-17	X	1924 110 (M) 1947 447 (U)	1924 8.80 (M) 1947 9.82 (U)	Do.
3-3407-18	X	1947 133 (U)	1947 10.03 (U)	SEE 3-3407-01Z.
3-3407-19	X	1947 146 (U)	1947 10.10 (U)	Do.

Table 6. Available data for wells, shafts and tunnels in North-central Dahur--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3407-20	X	1947 249 (U)	1947 9.98 (U)	SEE 3-3407-07Z.
3-3407-21	X	1947 156 (U)	CONTINUOUS (U) 1963	Do.
3-3407-22			1939 14.80 (U)	
3-3407-23	X	1939 366 (W)	1939 15.00 (W)	
3-3407-24	X	1940 240 (W)	1939 23.58 (W) 1940 21.97 (W)	
3-3407-25	X	1951 435 (U) 1959 377 (U) 1954 500 (U) 1963 418 (U) MONTHLY (U) 1973-84	1951 11.35 (U)	
3-3407-26	X	MONTHLY (U) 1962-65	CONTINUOUS (U) 1964 MONTHLY (U) 1962-65	
3-3407-27	X	MONTHLY (U) 1962-65	1966 -0.23 (U) CONTINUOUS (U) 1964 MONTHLY (U) 1962-65	
3-3407-28	X	MONTHLY (U) 1962-65	MONTHLY (U) 1962-65	
3-3407-29	X	1964 362 (U) MONTHLY (W) 1966-68	1964 1.00 (U) 1966 -0.43 (U) CONTINUOUS (U) 1964	
3-3407-30		MONTHLY (W) 1966-68 (U) 1972-84	CONTINUOUS (U) 1965-66 MONTHLY (U) 1965-66, 1972-84	
3-3407-31		MONTHLY (W) 1966-68	1966 -1.96 (U)	
3-3407-32		MONTHLY (W) 1966-68	1966 -4.34 (U)	
3-3407-33		1972 13,000 ppm (U)		

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FLUORIDE CONCENTRATION	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3408-01	1924	122 (U)		
3-3408-02	1939	186 (U)	1939 13.69 (U)	
	1942	160 (U)	1942 13.49 (U)	
	1944	186 (U)	1944 12.57 (U)	
	ANNUAL	(M) 1936-41 (M) 1935, 1942-45	ANNUAL (M) 1934, 1942, 1944-47 MONTHLY (M) 1936-41	
3-3408-03	1924	100 (U)	1924 18.98 (U)	
	1939	180 (U)	1944 18.64 (U)	
	1942	166 (U)	MONTHLY (M) 1937-41	
	ANNUAL	(M) 1936-41 (M) 1935, 1942-45	ANNUAL (M) 1934, 1936, 1942-47	
3-3408-04	1944	191 (U)	1944 16.95 (U)	MONTHLY (M) 1936-59.
	1945	183 (U)	1947 17.39 (U)	
	ANNUAL	(M) 1936-41 (M) 1935, 1942-45, 1947, 1952-53, 1956-58	MONTHLY (M) 1937-41 ANNUAL (M) 1942-48	
3-3408-05	MONTHLY	(M) 1937-41, 1945	1944 18.90 (U)	MONTHLY (M) 1934-58.
	ANNUAL	(M) 1935-36, 1942-45, 1951, 1957-58 (U) 1942, 1944, 1947, 1950, 1951-58	1947 19.16 (U)	
			MONTHLY (M) 1937, 1941, 1945	
			ANNUAL (M) 1939-40, 1942-44, 1948	
3-3408-06				
3-3408-07	X	1962 548 (U)	1963 549 (U)	
3-3409-012		ANNUAL (M) 1923-24, 1926-31	1962 8.97 (U)	1963 8.72 (U)
3-3409-01		MONTHLY (M) 1931-39	ANNUAL (M) 1930-36 MONTHLY (M) 1937-39	MONTHLY (M) 1914-15, 1924-84. SEE 3-3409-012.

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	F L L E O I S G W I	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3409-02	X	1939 76 (U) 1945 83 (U) 1942 90 (U) ANNUAL (W) 1935-36, 1943 MONTHLY (W) 1937-41, 1945	1939 18.65 (U) 1945 17.17 (U) 1942 17.28 (U) MONTHLY (W) 1937-41 ANNUAL (W) 1934, 1936, 1942-43, 1945-46	
3-3409-03				
3-3409-04		1942 338 (U) 1951 419 (U) 1945 447 (U) 1954 398 (U) 1947 416 (U) MONTHLY (W) 1934-41, 1951 ANNUAL (W) 1943-44	1947 3.64 (U) ANNUAL (W) 1934, 1937, 1940-45	
3-3409-05		1934 288 (U)	1934 5.50 (U)	
3-3409-06	X	1924 2,450 ppm (U)		
3-3409-07				
3-3409-08	X	1939 277 (U) 1944 410 (U) 1942 325 (U) 1945 468 (U) ANNUAL (W) 1924, 1935, 1940-41, 1943 MONTHLY (W) 1936-40	1939 18.28 (U) 1945 16.95 (U) 1942 17.36 (U) 1947 18.08 (U) 1944 17.23 (U) ANNUAL (W) 1934, 1936-37	
3-3409-09		1942 127 (U) 1953 213 (U) 1944 169 (U) 1954 234 (U) 1945 188 (U) 1955 270 (U) 1947 170 (U) 1956 240 (U) MONTHLY (W) 1937-41, 1945, 1960-62, 1964-66	1947 17.15 (U) ANNUAL (W) 1934, 1942-43, 1945 MONTHLY (W) 1937-41	
3-3409-10		1928 83 (U) 1929 70 (U)		
3-3409-11	X	ANNUAL (W) 1924, 1926, 1935-36 MONTHLY (W) 1932-41	ANNUAL (W) 1934, 1936, 1946 MONTHLY (W) 1937-41	

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FLUORIDES	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3409-12	X	1924 156 (U) 1939 144 (U) ANNUAL (M) 1935-36, 1942-45 MONTHLY (M) 1937-41	1939 18.49 (U) 1940 18.73 (U) ANNUAL (M) 1934, 1936, 1942-46 MONTHLY (M) 1937-41	SEE 3-3409-012.
3-3409-13		MONTHLY (M) 1931-37, 1939-41, 1945-62, 1964-68, 1970-84 ANNUAL (U) 1944, 1947, 1950-54, 1956-60, 1962, 1972	1939 18.48 (U) 1962 19.15 (U) 1947 17.65 (U) 1963 19.07 (U) 1958 18.46 (U) MONTHLY (M) 1938-41 ANNUAL (M) 1942-48	
3-3409-14	X	MONTHLY (M) 1936-41 ANNUAL (U) 1924, 1935, 1942-45, 1947, 1951-54, 1957	MONTHLY (M) 1937-41 ANNUAL (M) 1934, 1936, 1942-44, 1946 (U) 1945, 1947, 1951-53, 1956-57, 1959	
3-3409-15Z				MONTHLY (M) 1933-71.
3-3409-15		ANNUAL (U) 1924, 1934, 1942, 1944, 1951-54, 1956-60, 1962 MONTHLY (M) 1934-45, 1947, 1951, 1958-62, 1964-68, 1971-84	1958 19.14 (U) 1963 19.34 (U) ANNUAL (M) 1934, 1942-44, 1947 MONTHLY (M) 1937-41, 1945	SEE 3-3409-15Z.
3-3409-16	X X	MONTHLY (U) 1924-84	MONTHLY (U) 1924-84	
3-3409-17	X	MONTHLY (M) 1934-42, 1944-45, 1951, 1958-62, 1964-68, 1970-71 ANNUAL (U) 1942-45, 1951-52, 1954, 1956-60, 1962	1941 18.32 (M) 1947 17.87 (U) 1944 18.29 (M) 1958 19.29 (U) MONTHLY (M) 1937, 1945	SEE 3-3409-15Z.
3-3409-18	X	MONTHLY (U) 1962-65	MONTHLY (U) 1962-65	
3-3409-19	X	MONTHLY (U) 1962-65	CONTINUOUS (U) 1963-66	
3-3409-20	X			

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	F T		CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
	L I L E	O I S G W T			
3-3409-21	X				
3-3409-22	X				
3-3409-23	X				
3-3410-01	X		ANNUAL (W) 1938-41, 1943 (U) 1944-45, 1947, 1950-60, 1965, 1972	ANNUAL (W) 1938-41 (U) 1958-59, 1962-63, 1965	
3-3410-02	X		ANNUAL (W) 1938-43 (U) 1942, 1944-45, 1947, 1950-58	ANNUAL (W) 1934, 1937-41, 1945-46	
3-3410-03	X		ANNUAL (W) 1938-41, 1943 (U) 1942, 1944, 1947, 1951-60, 1962, 1972	1963 18.89 (U) ANNUAL (W) 1938-41	
3-3410-04	X		ANNUAL (W) 1938-41, 1943 (U) 1942, 1944, 1947, 1952, 1954, 1956-58	ANNUAL (W) 1938-41, 1943, 1957-58	
3-3410-05	X		ANNUAL (W) 1939-41, 1943 (U) 1942, 1944-45, 1947, 1950-54, 1956-60, 1962, 1966	ANNUAL (U) 1939-41, 1947, 1954, 1956-60, 1962	
3-3410-06	X		1938 91 (W)	1938 18.49 (W)	
3-3410-07	X		ANNUAL (W) 1935-45 (U) 1942, 1944-45, 1947, 1950-52, 1954-60	ANNUAL (W) 1934, 1937-39, 1941, 1943, 1946 (U) 1945, 1954, 1956-60	
3-3410-08			MONTHLY (U) 1929-84	CONTINUOUS (U) 1963-84 MONTHLY (U) 1929-84	
3-3410-09			1942 118 (W) 1944 138 (W)	1948 17.17 (U)	

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FILES O O S G M T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3410-10	X	1947 476 (U) 1954 439 (U) 1952 442 (U) 1957 412 (U)	1947 16.76 (U)	
3-3410-11	X	MONTHLY (U) 1962-65	MONTHLY (U) 1962-65	
3-3410-12	X			
3-3411-01	X	MONTHLY (M) 1936-41 (U) 1962-65 ANNUAL (U) 1939, 1944, 1952-54, 1957, 1959-60, 1962	MONTHLY (M) 1936-41 (U) 1962-65 ANNUAL (U) 1939, 1952, 1959-60, 1962	
3-3411-02	X	1942 51 (U) 1943 55 (U) MONTHLY (M) 1936-41	1939 16.64 (U) 1942 16.13 (U) MONTHLY (M) 1936-41	
3-3411-03	X	1942 45 (U) MONTHLY (M) 1936-41	1942 16.07 (U) MONTHLY (M) 1936-41	
3-3411-04Z	X	MONTHLY (M) 1920, 1923-26, 1928-62, 1964-68, 1970-84	ANNUAL (M) 1930-34, 1939, 1942-44, 1946-48, 1950 MONTHLY (M) 1935-38, 1940-41, 1945 QUARTERLY (U) 1962-65	MONTHLY (M) 1914-16, 1924-84.
3-3411-04		1947 79 (U) 1972 225 (U)	1947 16.55 (U)	SEE 3-3411-04Z.
3-3411-05		1926 240 (U) 1942 70 (U) 1939 74 (U)	1939 10.21 (U) 1942 10.29 (U)	
3-3411-06		1947 60 (U)	1947 16.46 (U)	SEE 3-3411-04Z.
3-3411-07		1947 70 (U)	1947 16.50 (U)	Do.
3-3411-08		1947 81 (U)	1947 16.57 (U)	Do.
3-3411-09		1947 107 (U)	1947 16.53 (U)	Do.
3-3411-10		1947 57 (U)	1947 16.45 (U)	Do.
3-3411-11		1947 62 (U)	1947 16.50 (U)	Do.

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FILE NO. OR LOG NO.	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL.)	PUMPAGE
3-3411-12		1939 MONTHLY 50 (U) 1937-41 (W)	1938 16.41 (U)	
3-3411-13		1947 103 (U)	1947 16.41 (U)	SEE 3-3411-04Z.
3-3411-14	X	MONTHLY (U) 1962-65	MONTHLY (U) 1962-65	
3-3411-15	X	MONTHLY (U) 1962-65	MONTHLY (U) 1962-65	
3-3412-01			1944 8.67 (U)	
3-3412-02	X	1942 115 (U) 1947 125 (U) 1952 112 (U) 1954 111 (U) 1957 110 (U) 1958 122 (U) 1959 116 (U) 1960 120 (U) 1962 125 (U) 1972 170 (U)	1944 8.66 (U) 1958 9.13 (U) 1962 9.06 (U)	
3-3412-03	X	MONTHLY (U) 1962-65	MONTHLY (U) 1962-65	
3-3414-01	X	MONTHLY (U) 1962-63	MONTHLY (U) 1962-63	
3-3504-01	X	MONTHLY (W) 1938-54	MONTHLY (W) 1938-54 (U) 1964-65	
3-3505-01Z		ANNUAL (W) 1920, 1923-27 MONTHLY (W) 1928-34, 1938-62, 1964-68, 1970-84	1974 10.73 (U) ANNUAL (W) 1930-33, 1938-42, 1944-46, 1958, 1962-63 1975 11.14 (U)	MONTHLY (W) 1914-16, 1924-84.
3-3505-01		SEE 3-3505-01Z	SEE 3-3505-01Z	SEE 3-3505-01Z.
3-3505-02		do.	do.	Do.
3-3505-03		do.	do.	Do.
3-3505-04		do.	do.	Do.
3-3505-05		do.	do.	Do.

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	DEPTH (FEET)	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3505-06		SEE 3-3505-01Z	SEE 3-3505-01Z	SEE 3-3505-01Z.
3-3505-07		do.	do.	Do.
3-3505-08		do.	do.	Do.
3-3505-09		do.	do.	Do.
3-3505-10		do.	do.	Do.
3-3505-11		do.	do.	Do.
3-3505-12		do.	do.	Do.
3-3505-13		do.	do.	Do.
3-3505-14		do.	do.	Do.
3-3505-15		do.	do.	Do.
3-3505-16		do.	do.	Do.
3-3505-17		do.	do.	Do.
3-3505-18		do.	do.	Do.
3-3505-19		do.	do.	Do.
3-3505-20		do.	do.	Do.
3-3505-21				
3-3505-22		1952 60 (U) 1958 72 (U) 1953 57 (U) 1959 66 (U) 1954 58 (U) 1962 60 (U) 1956 61 (U) 1964 76 (U) 1957 69 (U)	1964 69.64 (U) 1975 68.32 (U) 1974 68.23 (U) 1981 68.75 (U) CONTINUOUS (U) 1974-75	
3-3505-23		MONTHLY (U) 1962-65	MONTHLY (U) 1962-64	

Table 6. Available data for wells, shafts and tunnels in North-central Oahu - Continued

WELL NUMBER	DEPTH (feet)	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3506-01		MONTHLY (W) 1929-34, 1936-41, 1951, 1957-62 ANNUAL (W) 1923, 1926-28, 1935, 1942-45, 1947 (U) 1942, 1944, 1950, 1958-59	1947 9.76 (U) 1958 9.26 (U) CONTINUOUS (U) 1963-65 MONTHLY (W) 1938-41 ANNUAL (W) 1930-34, 1942-45, 1947	MONTHLY (W) 1914-16, 1924-62.
3-3506-02		1947 114 (U) MONTHLY (W) 1930-45, 1957-62	1947 10.08 (U) ANNUAL (W) 1930-35, 1942-48 MONTHLY (W) 1936-41, 1962	MONTHLY (W) 1929-62.
3-3506-03Z		ANNUAL (W) 1923-24, 1926-28 MONTHLY (W) 1929-62, 1964-68 (U) 1972-84	1958 11.27 (U) 1963 11.28 (U) 1962 10.78 (U) 1974 11.26 (U) ANNUAL (W) 1930, 1933-40, 1942-48	MONTHLY (W) 1914-16, 1924-84.
3-3506-03		1947 83 (U)	1947 10.20 (U)	SEE 3-3506-03Z.
3-3506-04		1947 85 (U)	1947 10.12 (U)	Do.
3-3506-05	X	ANNUAL (B) 1925, 1927, 1942, 1944-45, 1947, 1950-56	1931 16.03 (B) CONTINUOUS (U) 1963-66, 1968-71 BIMONTHLY (U) 1972-78	MONTHLY (B) 1944-57.
3-3506-06	X	ANNUAL (U) 1946-47, 1950-54, 1956-60, 1962-69, 1972	ANNUAL (U) 1947, 1952, 1954, 1957-58, 1962-63, 1974-75	
3-3506-07	X	1958 106 (U) 1963 96 (U) 1959 105 (U) 1972 90 (U)	1958 10.14 (U)	
3-3506-08	X	MONTHLY (U) 1962-65	CONTINUOUS (U) 1963-64 MONTHLY (U) 1962-65	
3-3506-09	X	MONTHLY (U) 1962-65	CONTINUOUS (U) 1963-65 MONTHLY (U) 1962-65	
3-3507-01	X			

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	CLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3511-01	MONTHLY (U) 1962-65	MONTHLY (U) 1962-65	
3-3605-01Z	ANNUAL (W) 1920, 1923, 1936-45 MONTHLY (W) 1925-28, 1930-31, 1933-35, 1946-56, 1958-62, 1964-68, 1970-84	ANNUAL (W) 1930-34, 1944-45, 1950	MONTHLY (W) 1924, 1927-84.
3-3605-01	1947 442 (U)	1947 3.40 (U)	SEE 3-3605-01Z.
3-3605-02	1947 380 (U) 1972 680 (U)	SEE 3-3605-01Z	Do.
3-3605-03	1947 390 (U) MONTHLY (U) 1972-84	do.	Do.
3-3605-04	1947 385 (U) 1972 368 (U)	do.	Do.
3-3605-05	1947 395 (U)	1947 3.58 (U)	Do.
3-3605-06	1947 380 (U) 1972 510 (U)	SEE 3-3605-01Z	Do.
3-3605-07	1947 380 (U) 1972 350 (U)	do.	Do.
3-3605-08	1947 380 (U)	do.	Do.
3-3605-09	1947 380 (U)	1947 3.58 (U)	Do.
3-3605-10	1947 380 (U)	1947 3.50 (U)	Do.
3-3605-11	SEE 3-3605-01Z	SEE 3-3605-01Z	Do.
3-3605-12	1947 370 (U) 1972 352 (U)	do.	Do.
3-3605-13	1947 370 (U) 1972 412 (U)	do.	Do.
3-3605-14	SEE 3-3605-01Z	do.	Do.
3-3605-15	1972 370 (U)	do.	Do.

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3605-16	X	1972 420 (U)	SEE 3-3605-012	SEE 3-3605-012.
3-3605-17	X	1972 355 (U)	do.	Do.
3-3605-18	X	1955 377 (U) 1972 380 (U)	do.	Do.
3-3605-19	X	1955 372 (U) 1972 370 (U)	1955 4.50 (U)	Do.
3-3605-20	X	1955 401 (U) 1972 368 (U)	1955 4.38 (U)	Do.
3-3605-21	X	1955 386 (U) 1972 335 (U) MONTHLY (U) 1972-81	1955 4.53 (U)	Do.
3-3605-22	X	1955 382 (U) 1972 340 (U)	1955 4.45 (U)	Do.
3-3605-23	X	1955 401 (U) 1972 382 (U)	1955 4.45 (U)	Do.
3-3605-24	X	WEEKLY (U) 1955-56	SEE 3-3605-012	Do.
3-3605-25	X	1955 540 (U)	CONTINUOUS (U) 1961-65	Do.
3-3605-26	X	MONTHLY (U) 1962-65	CONTINUOUS (U) 1963 MONTHLY (U) 1962-65	Do.
3-3605-27	X			
3-3704-01		1956 515 (U) 1963 590 (U) 1958 542 (U) 1964 525 (U) 1959 535 (U) 1972 500 (U) 1962 501 (U)	MONTHLY (U) 1958-63	ANNUAL (P) 1958-84.
3-3705-01	X	1958 518 (U) 1963 517 (U)	1958 2.24 (U)	
3-3803-01		1949 66 (U) 1956 88 (U)	1949 7.52 (U) 1956 9.03 (U)	
3-3803-02		1949 1,230 (U) 1950 356 (U)	1949 1.82 (U)	

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FLIGHT LOGS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3902-01	X	MONTHLY (U) 1962-64 ANNUAL (U) 1946-47, 1949, 1952-54, 1956-60, 1962	1946 2.79 (U) 1958 2.60 (U) 1956 2.83 (U) 1962 1.99 (U) 1957 2.60 (U)	MONTHLY (P) 1959-60. ANNUAL (P) 1947.
3-3902-02	X	1956 50 (U) 1957 48 (U)	1956 3.67 (U) 1957 3.08 (U)	
3-3903-01	X	1956 635 (U)	1956 2.15 (U)	
3-4002-01	X	1939 212 (U) 1957 216 (U) 1942 429 (U) 1958 197 (U) 1944 214 (U) 1960 197 (U) 1945 203 (U) 1962 188 (U) 1955 230 (U)	1939 5.81 (U) 1957 3.19 (U) 1942 3.50 (U) 1958 3.29 (U) 1944 3.04 (U) 1960 3.14 (U) 1945 3.19 (U) 1964 3.14 (U) 1955 2.84 (U)	
3-4002-02				
3-4002-03	X			
3-4002-04Z				MONTHLY (B) 1961-84.
3-4002-04	X	1948 98 (U) 1950 66 (U) 1949 63 (U) 1972 113 (U) MONTHLY (B) 1961-71	1948 2.71 (U) 1949 2.62 (U)	SEE 3-4002-04Z.
3-4002-05	X		1949 2.50 (U) 1965 3.43 (U) CONTINUOUS (U) 1964	Do.
3-4002-06	X	1957 816 (U) 1962 796 (U) 1958 726 (U) 1963 902 (U) 1959 727 (U) 1964 787 (U) 1960 633 (U)	1956 2.09 (U)	
3-4002-07		1956 1,500 (U) 1957 1,520 (U)	1956 13.10 (U)	
3-4003-01	X	1941 204 (U)	1941 2.60 (U)	
3-4101-01	X	1942 73 (U) 1944 175 (U)	1942 13.21 (U) 1945 12.38 (U) 1944 12.75 (U)	

Table 6. Available data for wells, shafts and tunnels in North-central Oahu--Continued

WELL NUMBER	FILE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-4101-02	X			
3-4101-03	X	MONTHLY (U) 1929-74	CONTINUOUS (B) 1969 MONTHLY (U) 1929-84	
3-4101-04Z				ANNUAL (S) 1942-49. (B) 1950-56.
3-4101-04	X	1938 49 (U)	1938 18.23 (U) 1939 20.53 (U)	SEE 3-4101-04Z.
3-4101-05	X	1939 75 (U) 1945 59 (U) 1940 48 (U) 1947 55 (U) 1944 49 (U) 1948 52 (U)	1939 21.81 (U) CONTINUOUS (U) 1963-65	Do.
3-4101-06	X	1941 40 (U) 1958 239 (U) 1942 42 (U) 1959 141 (U) 1945 46 (U) 1960 117 (U) 1954 203 (U) 1962 183 (U) 1956 330 (U)	1941 19.39 (U) 1958 18.92 (U) 1948 17.46 (U) 1959 17.68 (U) 1954 17.48 (U) 1960 19.08 (U) 1956 19.00 (U) 1962 18.24 (U) 1957 19.46 (U) CONTINUOUS (U) 1962-63	
3-4101-07	X	1945 63 (U) 1958 42 (U) 1948 37 (U) 1959 40 (U) 1952 46 (U) 1962 39 (U) 1953 39 (U) 1963 38 (U) 1956 38 (U) 1964 40 (U) 1957 40 (U) 1972 36 (U)	1945 17.23 (U) 1948 17.13 (U)	MONTHLY (B) 1957-84.
3-4101-08	X	1957 39 (U) 1970 39 (B) BIMONTHLY (U) 1972-84	1957 19.59 (U)	MONTHLY (B) 1971-84.
3-4101-09	X	1957 180 (U) 1958 192 (U) MONTHLY (U) 1962-64	1957 7.80 (U) MONTHLY (U) 1962-64	
3-4101-10	X	1959 110 (U) 1963 112 (U) 1960 110 (U) 1964 104 (U) 1962 102 (U) 1972 114 (U)	1959 2.90 (U)	ANNUAL (Z) 1960-81.
3-4101-11	X			

WINDWARD OAHU

List of abbreviations

For table 7:

Ground-water bodies:

KAHUKU = Kahuku ground-water body

KOOLAU-DIKE = Koolau dike-impounded ground-water body

For table 8:

LOG = Log data available

FLOW = Flow data available

TEST = Pump test data available

C/O:

C = Cased well

O = Open hole

Sources (in parentheses):

A = U.S. Army

B = City and County of Honolulu Board of Water Supply

D = Driller

K = Kahuku Plantation

N = U.S. Navy

O = Oahu Sugar Company

P = Private

S = State of Hawaii (various agencies)

U = U.S. Geological Survey

W = Waiialua Sugar Company

X = Unknown

Z = Other

U = Use of water

A = Air conditioning

B = Bottling

C = Commercial

E = Power generation

F = Fire

H = Domestic

I = Irrigation

J = Industrial cooling

N = Industrial

P = Public supply

Q = Aquaculture

R = Recreation

S = Stock supply

T = Institutional

U = Unused

Z = Other

S = Status of site

C = Emergency supply

O = Observation

T = Test

U = Unused

W = Withdrawal

Z = Destroyed

Table 7. General information on the wells, shafts and tunnels in Windward Oahu

WELL NUMBER	MAP NO.	GROUND- WATER BODY		ALT. (ft)	WELL		CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
		DEPTH (ft)	C		DEPTH (ft)	O							
3-1939-01	15	KOOLAU-DIKE	2.00	26.00	C	25.00	18	1963	SEA LIFE PRK	C	W		
3-1939-02	15	do.	2.00	25.00	C	24.00	18	1963	do.	C	W		
3-1940-01	15	KOOLAU-DIKE	25.00	80.00	C	-----	5	1960	SEA LIFE PRK	C	W		
3-1940-02	15	do.	42.00	105.00	C	14.00	18	1963	do.	C	W		
3-1940-10	15	do.	35.00	262.00	C	125.00	16	1981	OCEANIC INST	C	W		
3-2042-01	15	KOOLAU-DIKE	20.00	106.00	O	-----	-----	1943	US AIR FORCE	-	Z		ABANDONED.
3-2042-02	15	do.	12.00	58.00	C	58.00	12	1943	do.	U	O		
3-2042-03	15	do.	15.00	88.00	C	88.00	12	1943	do.	U	O		
3-2042-04	15	do.	20.00	100.00	C	100.00	2	1953	G ERNSBARGER	-	Z		SEALED FEB 1968.
3-2042-05	15	do.	12.00	450.00	C	450.00	2	1966	C & C HON	U	O		
3-2042-06	15	do.	12.00	340.00	C	-----	4	1966	STATE	U	T		USGS NETWORK WELL.
3-2042-07	15	do.	10.00	320.00	O	-----	-----	1966	C & C HON	U	O		
3-2042-08	15	do.	10.00	-----	O	-----	-----	1966	do.	U	O		
3-2042-09	15	do.	10.00	-----	O	-----	-----	1966	do.	U	O		
3-2042-10	15	do.	14.00	36.00	O	-----	-----	1966	do.	U	O		
3-2042-11	15	do.	10.00	190.00	C	-----	2	1966	do.	U	T		
3-2042-12	15	do.	10.00	219.00	O	-----	-----	1967	do.	U	O		
3-2042-13	15	do.	50.00	160.00	C	30.00	16	1968	PAC CONC & GRV	N	W		USGS NETWORK WELL.
3-2042-17	15	do.	30.00	90.00	C	52.00	20	1969	do.	N	W		
3-2043-01	15	KOOLAU-DIKE	26.00	580.00	C	255.00	6	1937	HONOLULU BMS	-	Z		SEALED APR 1970.
3-2043-02	15	do.	142.00	280.00	C	137.00	12	1956	do.	P	W		
3-2044-01	15	KOOLAU-DIKE	310.00	440.00	O	-----	16	1956	STATE	U	O		
3-2044-02	15	do.	150.00	270.00	C	238.00	6	1937	do.	-	Z		ABANDONED/CASING COLLAPSED. 3-2044-03 TO 04.
3-2044-03Z	15	do.	415.00	-----	-	-----	-----	1888	HONOLULU BMS	P	W		WAIMANALO TUNNEL 1.
3-2044-03	15	do.	425.00	-----	-	-----	-----	1926	do.	P	W		WAIMANALO TUNNEL 2.
3-2045-01	15	KOOLAU-DIKE	450.00	-----	-	-----	-----	1900	STATE DONALD	I	W		MAUNAWILI FAULT TUNNEL.
3-2045-02	15	do.	535.00	-----	-	-----	-----	1923	do.	I	W		MAUNAWILI KOREAN TUNNEL.
3-2045-03	15	do.	462.00	-----	-	-----	-----	1931	HONOLULU BMS	P	W		WAIMANALO TUNNEL 3.
3-2045-04	15	do.	462.00	-----	-	-----	-----	1929	do.	P	W		WAIMANALO C & C TUNNEL 1.
3-2045-05	15	do.	620.00	-----	-	-----	-----	1941	do.	P	W		WAIMANALO C & C TUNNEL 2.

Table 7. General information on the wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		DIA. (in.)	YEAR COMP	OWNER	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	C				
3-2046-01	13	KOOLAU-DIKE	777.00	805.00	C	805.00	C	1	1954	HONOLULU BWS	U O FORMER USGS OBS WELL.
3-2046-02	13	do.	1000.00	1056.00	C	1015.00	C	1	1954	do.	U O
3-2046-03	13	do.	550.00	-----	-	-----	-	-----	1926	STATE DONALD	P W WAIMANALO CLARK TUNNEL.
3-2047-01	15	KOOLAU-DIKE	1280.00	452.00	C	60.00	C	2	1953	HONOLULU BWS	U O
3-2047-02	15	do.	1240.00	1230.00	C	1120.00	C	1	1954	do.	U O
3-2142-01	15	KOOLAU-DIKE	15.00	68.00	O	-----	O	-----	1943	US AIR FORCE	F W
3-2142-02	15	do.	20.00	75.00	C	75.00	C	-----	1943	do.	- Z ABANDONED.
3-2142-03	15	do.	20.00	41.00	O	-----	O	-----	1943	do.	F W
3-2143-01	15	KOOLAU-DIKE	20.00	-----	O	-----	O	-----	1891	STATE	- Z LOST.
3-2143-02	15	do.	42.00	50.00	O	-----	O	-----	1952	do.	- Z SEALED DEC 1952/NO WATER.
3-2146-01	13	KOOLAU-DIKE	500.00	-----	-	-----	-	-----	1926	STATE DONALD	U U MAUNAWILI COOKE TUNNEL.
3-2146-02	15	do.	376.00	-----	-	-----	-	-----	1926	do.	I W MAUNAWILI AINONI TUNNEL.
3-2147-01	13	KOOLAU-DIKE	750.00	-----	-	-----	-	-----	1893	STATE DONALD	Z T MAUNAWILI O'SHAUGHNESSY TUNNEL.
3-2242-01	14	KOOLAU-DIKE	10.00	90.00	O	-----	O	-----	1943	US AIR FORCE	F W
3-2243-01	14	KOOLAU-DIKE	41.00	75.00	O	-----	O	-----	1943	US AIR FORCE	- Z ABANDONED.
3-2245-01	15	KOOLAU-DIKE	108.00	135.00	C	129.00	C	6	1943	STATE	- Z SEALED AUG 1940.
3-2245-02	15	do.	107.00	200.00	C	135.00	C	6	1940	do.	T W
3-2245-03	15	do.	117.00	260.00	C	155.00	C	8	1948	do.	T W
3-2246-01	14	KOOLAU-DIKE	92.00	349.00	C	265.00	C	12	1953	HONOLULU BWS	- Z SEALED SEPT 1971.
3-2343-01	14	KOOLAU-DIKE	50.00	135.00	O	-----	O	-----	1940	MIDPAC CTRY CLB	- Z ABANDONED.
3-2343-02	14	do.	40.00	199.00	C	-----	C	8	1958	do.	- Z ADANDONED.
3-2347-01	12	KOOLAU-DIKE	260.00	110.00	C	-----	C	8	1944	J RUIS	- Z SEALED SEPT 1944/NO WATER.
3-2348-01	12	KOOLAU-DIKE	290.00	273.00	C	85.00	C	2	1954	HONOLULU BWS	U O
3-2348-022	12	KOOLAU-DIKE	274.00	418.00	C	366.00	C	16	1955	HONOLULU BWS	P W
3-2348-02	12	do.	293.00	280.00	C	113.00	C	16	1955	do.	P W
3-2348-03	12	do.	309.00	182.00	C	85.00	C	3	1955	do.	U U

Table 7. General information on the wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	WELL DEPTH C	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-2349-01	12	KOOLAU-DIKE	570.00	-----	-	-----	-----	1948	HONOLULU BWS	P	W	LULUKU TUNNEL.
3-2349-02	12	do.	412.00	460.00	C	282.00	14	1984	do.	P	W	
3-2445-01	14	KOOLAU-DIKE	10.00	177.00	0	-----	-----	1938		-	Z	ABANDONED/TOO SALTY.
3-2446-01	14	KOOLAU-DIKE	19.00	-----	0	-----	-----	1892	H RICE	U	U	
3-2446-02	14	do.	29.00	108.00	C	67.00	6	1944	S TAKI	U	O	
3-2446-03	14	do.	47.00	184.00	C	163.00	6	1944	M UCHIBORI	U	U	
3-2447-01	12	KOOLAU-DIKE	40.00	240.00	0	-----	VAR	1946	US ARMY	-	Z	SEALED FEB 1946/DIA. 10 TO 8 IN.
3-2448-01	12	KOOLAU-DIKE	254.66	185.00	C	153.00	12	1946	STATE HOSPITAL	T	W	USGS NETWORK WELL.
3-2448-02	12	do.	216.00	180.00	C	102.00	6	1961	OUR LADY BETHAN	-	Z	SEALED SEPT 1984.
3-2449-01	12	KOOLAU-DIKE	238.00	92.00	C	79.00	6	1945	HONOLULU BWS	U	T	
3-2450-01	12	KOOLAU-DIKE	550.00	-----	-	-----	-----	1940	HONOLULU BWS	P	W	HAIKU TUNNEL.
3-2548-01	12	KOOLAU-DIKE	179.00	178.00	C	178.00	6	1945	HONOLULU BWS	U	T	
3-2548-02	12	do.	113.00	113.00	C	-----	6	1945	do.	U	T	
3-2549-01	12	KOOLAU-DIKE	485.00	423.00	C	307.00	12	1966	HONOLULU BWS	P	W	
3-2550-01	12	KOOLAU-DIKE	190.00	200.00	C	105.00	8	1957	VALLEY OF TEMPLE I	W	U	USGS NETWORK WELL.
3-2550-02	12	do.	250.00	305.00	C	22.00	8	1957	DILLINGHAM CORP.	U	U	
3-2550-03	12	do.	250.00	180.00	C	20.00	1	1957	do.	U	U	
3-2647-01	12	KOOLAU-DIKE	53.00	397.00	C	67.00	8	1939	C HOLMES	-	Z	SEALED JAN 1940.
3-2649-01	12	KOOLAU-DIKE	90.00	205.00	C	22.00	8	1957	DILLINGHAM CORP.	-	Z	SEALED JAN 1965.
3-2650-01	12	KOOLAU-DIKE	109.00	292.00	C	129.00	8	1945	J MEDINA	U	U	
3-2650-02	12	do.	160.00	326.00	C	22.00	8	1957	DILLINGHAM CORP.	U	W	
3-2651-01	12	KOOLAU-DIKE	585.00	-----	-	-----	-----	1947	HONOLULU BWS	P	W	KAHALUU TUNNEL.
3-2651-02	12	do.	218.00	-----	-	-----	-----	1955	do.	P	W	WATHEE TUNNEL.
3-2651-03	12	do.	418.70	450.00	C	253.00	12	1980	do.	P	W	

Table 7. General information on the wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	DIA. (in.)					
3-2652-01Z												
3-2652-01	12	KOOLAU-DIKE	690.00	366.00	C	87.00	4	1971	HONOLULU BWS	P	W	3-2652-01 TO 04.
3-2652-02	12	do.	690.00	355.00	C	95.00	4	1976	do.	P	W	
3-2652-03	12	do.	690.00	310.00	C	94.00	4	1976	do.	P	W	
3-2652-04	12	do.	690.00	278.00	C	108.00	4	1976	do.	P	W	
3-2750-01	12	KOOLAU-DIKE	3.00	80.00	C	78.00	2	1924	M HORIE	H	W	
3-2750-02	12	do.	4.00	66.00	C	48.00	6	1937	KOOLAU STORE	U	U	
3-2750-03	12	do.	40.00	121.00	C	42.00	8	1947	H FIELD	H	W	
3-2750-04	12	do.	48.00	172.00	C	14.00	10	1947	G HIGA	U	U	
3-2750-05	12	do.	9.00	96.00	C	50.00	6	1949	KOOLAU STORE	U	U	
3-2750-06	12	do.	45.00	180.00	C	45.00	8	1949	I KISHIMOTO	U	U	
3-2750-07	12	do.	39.00	155.00	C	40.00	6	1950	M TOME	-	Z	ABANDONED.
3-2751-01	12	KOOLAU-DIKE	53.00	175.00	C	49.00	8	1948	E AKIMA	U	U	
3-2751-02Z												3-2751-02 TO 03.
3-2751-02	12	KOOLAU-DIKE	192.00	348.00	C	62.00	12	1972	HONOLULU BWS	P	W	
3-2751-03	12	do.	198.00	343.00	C	144.00	12	1972	HONOLULU BWS	P	W	
3-2751-04	12	do.	204.74	26.00	C	26.00	16	1960	do.	U	O	WAIHEE DUG WELL.
3-2850-01	12	KOOLAU-DIKE	27.00	40.00	C	6.00	10	1943	E LEE	-	Z	SEALED SEPT 1943/NO WATER.
3-2850-02	12	do.	30.00	60.00	C	48.00	8	1947	YEE & CHING	H	W	
3-2850-03	12	do.	32.00	120.00	C	28.00	8	1949	L WONG	U	U	
3-2850-04	12	do.	19.00	180.00	C	62.00	8	1949	J AKIMA	H	W	
3-2850-05	12	do.	25.00	197.00	C	62.00	8	1949	O PADEKEN	U	U	
3-2850-06	12	do.	27.00	191.00	C	66.00	8	1949	H KANESHIRO	U	U	
3-2850-07	12	do.	13.00	160.00	C	90.00	8	1949	D NG	U	U	
3-2853-01	12	KOOLAU-DIKE	790.00	-----	-	-----	-----	1915	WAIHAOLE WATER	I	W	WAIHAOLE MAIN TUNNEL.
3-2853-02	12	do.	811.00	-----	-	-----	-----	1915	do.	U	T	WAIHAOLE TUNNEL A.
3-2853-03	12	do.	796.00	-----	-	-----	-----	1915	do.	U	T	WAIHAOLE TUNNEL B.
3-2953-01	12	KOOLAU-DIKE	1120.00	-----	-	-----	-----	1932	WAIHAOLE WATER	I	W	WAIHAOLE UNAU TUNNEL.
3-2953-02	12	do.	800.00	-----	-	-----	-----	1929	do.	I	W	WAIKANE TUNNEL 2.
3-3053-01	11	KOOLAU-DIKE	800.00	-----	-	-----	-----	1927	WAIHAOLE WATER	I	W	WAIKANE TUNNEL 1.
3-3154-01	8	KOOLAU-DIKE	800.00	-----	-	-----	-----	1931	WAIHAOLE WATER	I	W	KAHANA TUNNEL 1.

Table 7. General information on the wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-3250-01	11	KOOLAU-DIKE	40.00	0	0	0	1890	F SWANZY		Z	LOST.
3-3250-02	11	KAHUKU	8.00	90.00	0	0	1939	A CHO	U	U	
3-3251-01	11	KAHUKU	11.00	500.00	0	0	1896	F SWANZY	I	W	USGS NETWORK WELL.
3-3251-02	11	do.	18.50	0	0	0	1940	HONOLULU BMS	U	U	KAAWA SHAFT.
3-3350-01	11	KAHUKU	6.00	226.00	C	6	1937	STATE	U	U	
3-3351-01	11	KAHUKU	8.00	126.00	C	77.00	1925	H WILLIAMS	U	U	WATER VERY BRACKISH, NEVER USED.
3-3351-02	11	do.	6.00	98.00	C	82.00	1937	H LEE	U	U	
3-3351-03	11	do.	11.00	133.00	C	76.00	1945	KUALOA RANCH	U	U	
3-3352-01	11	KOOLAU-DIKE	5.00	441.00	C	177.00	1932	FOSTER ESTATE	H	W	USGS NETWORK WELL.
3-3353-01Z	11	KOOLAU-DIKE	35.00	520.00	C	274.00	1973	HONOLULU BMS	P	W	3-3353-01 TO 04.
3-3353-02	11	do.	93.60	521.00	C	321.00	1975	do.	P	W	
3-3353-03	11	do.	101.00	600.00	C	240.00	1975	do.	P	W	
3-3353-04	11	do.	101.00	600.00	C	300.00	1975	do.	P	W	
3-3452-01	11	KOOLAU-DIKE	6.00	163.00	C	50.00	1937	BISHOP ESTATE	U	U	
3-3453-01	11	KAHUKU	7.00	236.00	C	98.00	1925	C QUONG	U	U	
3-3453-02	11	do.	2.00	103.00	0	0	1926	D KAAPU		Z	ABANDONED/BRACKISH WATER.
3-3453-03	11	do.	8.50	441.00	C	261.00	1958	G OTA	Q	W	
3-3453-04	11	do.	8.00	379.00	0	0	1959	D KAAPU		Z	ABANDONED.
3-3453-05	11	do.	8.00	750.00	C	600.00	1959	do.	U	U	
3-3453-06Z	11	KOOLAU-DIKE	69.98	530.00	C	433.00	1974	HONOLULU BMS	P	W	3-3453-06 TO 07.
3-3453-06	11	do.	61.71	560.00	C	180.00	1974	do.	P	W	
3-3453-07	11	KAHUKU	60.00	160.00	C	80.00	1979	B CASEY	H	W	
3-3453-08	11	do.	67.00	445.00	C	158.00	1982	HONOLULU BMS	U	U	
3-3454-01	8	KOOLAU-DIKE	165.00	567.00	C	418.00	1982	HONOLULU BMS	P	W	
3-3553-01	11	KAHUKU	6.00	268.00	C	147.00	1935	HANOIANO ESTATE	Q	W	
3-3553-02	11	do.	7.00	305.00	C	158.00	1958	HONOLULU BMS	P	W	

Table 7. General information on the wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALI. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-3553-03Z	11	KAHUKU	71.00	369.00	94.00	16	1965	HONOLULU BWS	P W	3-3553-03-04, 06-08, 3-3554-03.
3-3553-04	11	do.	81.41	378.00	106.00	16	1966	do.	P W	
3-3553-05	11	do.	6.00	1007.00	151.00	10	1967	do.	U O	
3-3553-06	11	do.	88.00	378.00	140.00	16	1967	do.	P W	
3-3553-07	11	do.	89.10	378.00	104.00	16	1967	do.	P W	FORMER USGS NETWORK WELL.
3-3553-08	11	do.	60.00	380.00	140.00	16	1967	do.	P W	
3-3554-01Z										
3-3554-01	8	KAHUKU	25.00	291.00	79.00	12	1932	ZIONS SEC CORP.	I W	3-3554-01 TO 02.
3-3554-02	8	do.	25.00	264.00	125.00	2	1932	do.	I W	
3-3554-03	8	do.	90.00	378.00	142.00	16	1967	HONOLULU BWS	P W	
3-3554-04	8	do.	134.00	317.00	167.00	14	1982	do.	U U	
3-3654-01										
3-3654-01	8	KAHUKU	7.00	213.00	91.00	12	1914	STATE	- Z	SEALED JULY 1971.
3-3654-02	8	do.	10.00	-----	-----	8	1911	L HOLT	I W	FORMER USGS OBS WELL.
3-3654-03	8	do.	14.00	300.00	106.00	6	1935	ZIONS SEC CORP.	I W	
3-3654-04	8	do.	17.00	253.00	-----	12	1935	do.	I W	
3-3655-01										
3-3655-01	8	KAHUKU	20.00	253.00	75.00	12	1935	HONOLULU BWS	P W	USGS NETWORK WELL.
3-3755-01										
3-3755-01	7	KAHUKU	22.00	-----	-----	-----	1935	ZIONS SEC CORP.	- Z	LOST.
3-3755-02	7	do.	10.20	155.00	108.00	10	1964	do.	I W	
3-3755-03	8	do.	14.00	-----	-----	10	1935	T AANA	I W	
3-3755-04	7	do.	12.00	204.00	71.00	8	1890	ZIONS SEC CORP.	H W	
3-3755-05	8	do.	15.83	192.00	92.00	12	1903	SHINTAKU	U U	
3-3755-06	7	do.	20.00	315.00	146.00	12	1932	ZIONS SEC CORP.	I W	
3-3855-01										
3-3855-01	7	KAHUKU	16.00	250.00	157.00	8	1935	ZIONS SEC CORP.	- Z	SEALED AUG 1940.
3-3855-02	7	do.	15.00	388.00	160.00	6	1927	do.	- Z	SEALED OCT 1951.
3-3855-03	7	do.	11.00	482.00	158.00	10	1935	POLY CULT CNTR	I W	
3-3855-04	7	do.	14.00	446.00	104.00	10	1935	ZIONS SEC CORP.	I W	
3-3855-05	7	do.	18.00	-----	-----	12	1935	H VON HOLT	H W	
3-3855-06Z										
3-3855-06	7	KAHUKU	9.00	295.00	166.00	6	1890	BRGHAM YNG UNV	P W	3-3855-06 TO 08.
3-3855-07	7	do.	11.69	251.00	138.00	6	1890	do.	P W	
3-3855-08	7	do.	13.00	380.00	168.00	8	1890	do.	P W	
3-3855-09	7	do.	11.00	497.00	252.00	10	1890	POLY CULT CNTR	I W	

Table 7. General information on the wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	MAP NO.	GROUND- WATER		ALT. (ft)	WELL		C	CASING		YEAR COMP	OWNER	U	S	REMARKS
		NO.	BODY		DEPTH (ft)	DIA. (in.)		DEPTH (ft)	DIA. (in.)					
3-3855-10	7	KAHUKU		19.00	447.00	C	116.00	12	1927	BRGHAM YNG UNV	P	W		
3-3855-11	7	do.		15.00	251.00	C	96.00	4	1976	V CALDEIRA	H	W		
3-3856-01Z														3-3856-01 TO 06.
3-3856-01	7	KAHUKU		32.00	-----	0	-----	-----	-----	ZIONS SEC CORP.	I	W		
3-3856-02	7	do.		32.00	-----	0	-----	-----	-----	do.	I	W		
3-3856-03	7	do.		32.00	-----	0	-----	-----	-----	do.	I	W		
3-3856-04	7	do.		32.00	360.00	C	131.00	12	1931	do.	I	W		
3-3856-05	7	do.		32.00	370.00	C	125.00	12	1931	do.	I	W		
3-3856-06	7	do.		32.00	300.00	C	121.00	12	1931	do.	I	W		
3-3856-07	7	do.		15.00	306.00	C	121.00	12	1933	do.	I	W		
3-3955-01	7	KAHUKU		7.00	-----	C	-----	12	1890	ZIONS SEC CORP.	U	U		
3-3955-02	7	do.		10.00	529.00	C	215.00	8	1890	do.	I	W		
3-3956-01	7	KAHUKU		18.00	-----	0	-----	-----	-----	CAMPBELL ESTATE	H	W		
3-3956-02	7	do.		9.07	364.00	C	218.00	12	1930	do.	I	W		
3-3956-03	7	do.		6.00	345.00	C	104.00	8	1890	ZIONS SEC CORP.	P	W		
3-3956-04	7	do.		9.00	340.00	C	-----	10	1898	S KAHAWAI	I	W	USGS NETWORK WELL.	
3-3956-05	7	do.		7.00	220.00	C	90.00	8	1890	ZIONS SEC CORP.	I	W		
3-3956-06	7	do.		4.00	216.00	C	90.00	8	1890	do.	-	Z	SEALED APR 1957.	
3-3957-01Z														3-3957-01 TO 06.
3-3957-01	7	KAHUKU		32.00	-----	C	123.00	12	1925	ZIONS SEC CORP.	I	W		
3-3957-02	7	do.		32.00	-----	C	110.00	12	1925	do.	I	W		
3-3957-03	7	do.		32.00	-----	C	-----	8	1925	do.	I	W		
3-3957-04	7	do.		32.00	-----	C	-----	8	1925	do.	I	W		
3-3957-05	7	do.		32.00	373.00	C	118.00	12	1930	do.	I	W		
3-3957-06	7	do.		32.00	384.00	C	115.00	12	1930	do.	I	W		
3-3957-07	7	do.		29.00	397.00	C	104.00	12	1937	CAMPBELL ESTATE	H	W		
3-4056-01	7	KAHUKU		11.00	328.00	C	188.00	12	1930	CAMPBELL ESTATE	I	W		
3-4057-01Z														3-4057-01 TO 02, 08, 13 TO 14.
3-4057-01	7	KAHUKU		16.21	-----	0	-----	-----	-----	CAMPBELL ESTATE	P	W		
3-4057-02	7	do.		17.00	-----	C	287.00	8	1925	do.	I	W		
3-4057-03	7	do.		10.00	-----	0	-----	-----	-----	do.	I	W		

Table 7. General information on the wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-		ALT. (ft)	WELL		CASING			YEAR COMP	OWNER	U S	REMARKS
		WATER BODY			DEPTH (ft)	C	DEPTH (ft)	DIA. (in.)					
3-4057-04Z													3-4057-04, 09, 11 TO 12.
3-4057-04	7	KAHUKU		5.00	390.00	C	156.00	10	1908	CAMPBELL ESTATE	U	U	USGS NETWORK WELL.
3-4057-05	7	do.		8.83	397.00	C	172.00	12	1908	do.	U	O	USGS NETWORK WELL.
3-4057-06	7	do.		15.14	.....	O	.....	.....	1929	do.	I	W	FORMER USGS NETWORK WELL.
3-4057-07Z													3-4057-07, 10.
3-4057-07	7	KAHUKU		16.00	306.00	C	68.00	10	1925	CAMPBELL ESTATE	H	W	
3-4057-08	7	do.		17.00	265.00	C	91.00	12	1928	do.	I	W	
3-4057-09	7	do.		5.00	313.00	C	209.00	12	1936	do.	C	W	
3-4057-10	7	do.		16.00	378.00	C	118.00	12	1937	do.	Q	W	
3-4057-11	7	do.		5.00	323.00	C	180.00	12	1937	do.	U	U	
3-4057-12	7	do.		5.00	320.00	C	187.00	12	1937	do.	U	U	
3-4057-13	7	do.		12.00	270.00	C	95.00	12	1940	do.	I	W	
3-4057-14	7	do.		12.00	275.00	C	97.00	12	1940	do.	I	W	
3-4057-15	7	do.		211.00	418.00	C	243.00	16	1979	HONOLULU BMS	P	W	
3-4057-16	7	do.		209.80	365.00	C	240.00	12	1980	do.	P	W	
3-4100-01	7	KOOLAU-DIKE		14.11	200.00	C	78.00	12	1929	KULILIMA HOTEL	I	W	USGS NETWORK WELL.
3-4100-02	7	do.		37.00	88.00	C	41.00	6	1939	CAMPBELL ESTATE	H	W	
3-4100-03	7	do.		140.00	307.00	C	159.00	16	1969	HONOLULU BMS	P	W	
3-4157-01	7	KAHUKU		4.00	418.00	C	156.00	12	1935	CAMPBELL ESTATE	-	Z	SEALED AUG 1948.
3-4157-02	7	do.		5.00	348.00	C	151.00	10	1930	do.	-	Z	SEALED FEB 1964.
3-4157-03	7	do.		9.67	361.00	C	66.00	6	1929	do.	U	U	
3-4157-04	7	do.		10.00	326.00	C	136.00	12	1932	do.	Q	W	
3-4158-01Z													3-4158-01 TO 11.
3-4158-01	7	KAHUKU		41.00	.....	O	.....	.....	1900	CAMPBELL ESTATE	I	W	
3-4158-02	7	do.		41.00	.....	O	.....	.....	1900	do.	I	W	
3-4158-03	7	do.		41.00	.....	O	.....	.....	1900	do.	I	W	
3-4158-04	7	do.		41.00	.....	O	.....	.....	1900	do.	I	W	
3-4158-05	7	do.		41.00	.....	O	.....	.....	1900	do.	I	W	
3-4158-06	7	do.		41.00	.....	O	.....	.....	1900	do.	I	W	
3-4158-07	7	do.		41.00	.....	O	.....	.....	1901	do.	I	W	
3-4158-08	7	do.		41.00	.....	O	.....	.....	1901	do.	I	W	
3-4158-09	7	do.		41.00	447.00	C	179.00	12	1936	do.	I	W	
3-4158-10	7	do.		41.00	439.00	C	326.00	12	1936	do.	I	W	
3-4158-11	7	do.		41.00	440.00	C	151.00	12	1937	do.	I	W	
3-4158-12	7	do.		60.00	250.00	C	111.00	12	1942	do.	P	W	
3-4158-13	7	do.		62.00	252.00	C	114.00	12	1945	do.	U	W	

Table 7. General information on the wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL		CASING		YEAR COMP	OWNER	U	S	REMARKS
				DEPTH (ft)	C	DEPTH (ft)	O					
3-4159-01Z												
3-4159-01	7	KAHUKU	7.24	176.00	C	-----	12	1925	CAMPBELL ESTATE	I	W	3-4159-01 TO 02.
3-4159-02	7	do.	7.24	234.00	C	-----	12	1925	do.	I	W	
3-4258-01	7	KAHUKU	4.00	121.00	C	72.00	12	1935	CAMPBELL ESTATE	-	Z	SEALED NOV 1939.
3-4258-02	7	do.	4.00	123.00	C	90.00	10	1935	do.	-	Z	SEALED NOV 1937.
3-4258-03	7	do.	5.00	130.00	C	75.00	12	1935	do.	-	Z	SEALED NOV 1939.
3-4258-04	7	do.	10.00	234.00	C	176.00	12	1933	RCA	U	O	USGS NETWORK WELL.
3-4258-05	7	do.	5.00	60.00	C	60.00	20	1976	KAHUKU FARMS	Q	W	
3-4258-06	7	do.	5.00	80.00	C	80.00	20	1976	do.	Q	W	
3-4258-07	7	do.	5.00	100.00	C	100.00	12	1977	do.	Q	W	

Table 8. Available data for wells, shafts and tunnels in Windward Oahu

WELL NUMBER	FT LOSS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-1939-01	X			
3-1939-02	X			
3-1940-01	X			
3-1940-02	X	1963 16,200 ppm (U)	1963 0.38 (U)	
3-1940-10	X			
3-2042-01	X	1943 116 (U)	1943 10.50 (U)	
3-2042-02	X	1965 3,720 ppm (U)	1961 3.44 (U) CONTINUOUS (U) 1965	
3-2042-03	X		CONTINUOUS (U) 1965	
3-2042-04	X	1953 185 (U)		
3-2042-05	X			
3-2042-06	X		CONTINUOUS (U) 1967-70 MONTHLY (U) 1972-84	
3-2042-07	X		CONTINUOUS (U) 1967	
3-2042-08	X			
3-2042-09	X			
3-2042-10	X			
3-2042-11	X		CONTINUOUS (U) 1967	
3-2042-12	X			
3-2042-13	X	QUARTERLY (U) 1972-84		
3-2042-17	X	1969 360 (U)		

Table 8. Available data for wells, shafts and tunnels in Windward Oahu - Continued

WELL NUMBER	L O I S G W I T	F I T L I E	CHLORIDE (concentration in mg/L) (except as indicated)		WATER LEVEL (in feet above MSL)		PUMPAGE
			1944 1953 1954 1956	1960 1961 1970 25 (U) 33 (U) 25 (U)	1956 1960 1961 1972	1961 1972		1960-62. 1957-84.
3-2043-01	X	X	53 (U) 58 (U) 26 (U) 25 (U)	25 (U) 33 (U) 25 (U)	1956 28.75 (U) 1960 29.89 (U)	1961 29.79 (U) 1972 32.00 (U)	MONTHLY (B) 1960-62.
3-2043-02	X	X	31 (U)		1952 31.30 (U)		MONTHLY (B) 1957-84.
3-2044-01	X				CONTINUOUS (U) 1960-61		
3-2044-02	X						
3-2044-03Z							ANNUAL (B) 1945-46, 1950-58. MONTHLY (B) 1959-84.
3-2044-03							SEE 3-2044-03Z.
3-2044-04							Do.
3-2045-01	X						
3-2045-02	X						
3-2045-03							ANNUAL (B) 1944-55. MONTHLY (B) 1956-84.
3-2045-04							
3-2045-05							ANNUAL (B) 1944-55. MONTHLY (B) 1956-84.
3-2046-01	X				1954 635.90 (U) 1955 633.80 (U) 1956 630.30 (U)	1957 629.90 (U) 1960 627.00 (U) 1961 626.51 (U)	
3-2046-02	X				1954 667.80 (U) 1955 669.60 (U)	1956 675.40 (U) 1957 675.50 (U)	
3-2046-03	X						

Table 8. Available data for wells, shafts and tunnels in Windward Oahu - Continued

WELL NUMBER	FT L E V E L G M T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2047-01	X		1953 1091.2 (U) 1956 1071.6 (U) 1954 1012.6 (U) 1957 1069.5 (U) 1955 1079.4 (U)	
3-2047-02	X		1954 611.70 (U) 1957 620.60 (U) 1955 622.80 (U) 1960 612.91 (U) 1956 624.00 (U)	
3-2142-01			1960 4.31 (U) 1961 4.91 (U)	
3-2142-02	X	1943 71 (U)	1943 8.80 (U)	
3-2142-03	X		CONTINUOUS (U) 1960	
3-2143-01				
3-2143-02	X			
3-2146-01	X			
3-2146-02	X			
3-2147-01				
3-2242-01			1960 10.25 (U) 1961 10.15 (U)	
3-2243-01	X	1943 71 (U)	1943 7.70 (U)	
3-2245-01	X	1940 30 (U)		
3-2245-02	X	1940 31 (U) 1958 20 (U) 1948 46 (U) 1959 37 (U) 1957 39 (U) 1963 39 (U)	1940 119.39 (U)	
3-2245-03	X	1948 28 (U) 1960 21 (U)	1948 116.20 (U) CONTINUOUS (U) 1960-61	
3-2246-01	X	1953 30 (U)	1953 74.20 (U) 1961 77.80 (U) 1960 76.30 (U)	

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	FLIGHT LOG	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2343-01		1940 500 (U)		
3-2343-02		1958 7,870 ppm (U)	1958 3.52 (U) 1959 1.47 (U)	
3-2347-01	X			
3-2348-01	X	1960 20 (U) 1961 21 (U)	1955 306.84 (B) 1957 305.06 (B) 1958 301.07 (B)	
3-2348-02Z				MONTHLY (B) 1955-84.
3-2348-02	X	1955 22 (U) 1958 22 (U) 1957 22 (U) 1959 19 (U)	1955 310.37 (U) 1961 276.93 (U)	SEE 3-2348-02Z.
3-2348-03	X	1955 22 (U) SEMIANNUAL (B) 1959-71	1955 293.15 (U) 1961 288.21 (U)	Do.
3-2348-04	X		1955 308.94 (U) 1958 306.22 (B) 1956 309.11 (B) 1961 292.03 (U) 1957 309.96 (B) 1962 300.46 (U) CONTINUOUS (U) 1960	
3-2349-01				ANNUAL (B) 1944-47. MONTHLY (B) 1952-84.
3-2349-02	X		CONTINUOUS (U) 1985	
3-2445-01	X			
3-2446-01				
3-2446-02	X	1944 48 (U) 1958 57 (U) 1948 53 (U) 1959 44 (U) 1954 52 (U) 1960 50 (U) 1956 61 (U) 1962 59 (U) 1957 64 (U)	1944 18.48 (U) 1957 17.73 (U) 1954 16.56 (U) 1958 19.08 (U) 1956 18.78 (U) 1959 18.36 (U) CONTINUOUS (U) 1960-62	

Table 8. Available data for wells, shafts and tunnels in Windward Oahu - Continued

WELL NUMBER	L I O I G W I T	F I L E S	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)			PUMPAGE
3-2446-03	X		1944 34 (U)	1944 25.63 (U)	1957 25.76 (U)		
			1948 39 (U)	1954 24.75 (U)	1958 27.49 (U)		
			1952 46 (U)	1956 27.05 (U)			
			1954 45 (U)				
			1946 35 (U)				
3-2447-01	X		1946 35 (U)				
3-2448-01	X		1946 21 (U)	1946 248.81 (U)		ANNUAL (S) 1947-65. MONTHLY	
			QUARTERLY (U) 1972-84				
3-2448-02	X		1961 19 (U)	1961 211.64 (U)			
3-2449-01	X						
3-2450-01						ANNUAL (B) 1944-46. MONTHLY (B) 1947-84.	
3-2548-01	X			1945 124.70 (U)	1961 50.97 (U)		
3-2548-02	X			1960 52.83 (U)	1962 51.27 (U)		
3-2549-01		X					
3-2550-01	X		1962 17 (U) QUARTERLY (U) 1972-84				
3-2550-02	X		1957 18 (U)	1960 18.84 (U)	1961 14.68 (U)		
3-2550-03				1960 20.35 (U)	1961 16.32 (U)		
3-2647-01	X						
3-2649-01	X		1957 23 (U)	1960 14.30 (U)	1961 14.93 (U)		
3-2650-01	X		1945 23 (U)	1945 70.41 (U)	1961 71.36 (U)		
			1954 20 (U)	1960 73.25 (U)			
3-2650-02	X		1957 18 (U)	1960 9.84 (U)	1961 9.40 (U)		

Table 8. Available data for wells, shafts and tunnels in Windward Oahu - Continued

WELL NUMBER	IF T L L E O I S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2651-01				MONTHLY (B) 1947-84.
3-2651-02		1968 12 (U)		MONTHLY (B) 1955-84.
3-2651-03	X	1980 22 (D)	1980 86.00 (D)	
3-2652-01Z				MONTHLY (B) 1977-81.
3-2652-01	X			SEE 3-2652-01Z.
3-2652-02				Do.
3-2652-03				Do.
3-2652-04				Do.
3-2750-01	X	ANNUAL (U) 1925, 1942-45, 1947, 1949, 1951, 1953-54, 1956-63	ANNUAL (U) 1939, 1942-45, 1949, 1954, 1956-63	
3-2750-02	X	1942 30 (U) 1943 28 (U) 1944 25 (U) 1945 24 (U)	1944 1.97 (U)	
3-2750-03	X	1947 25 (U) 1953 23 (U) 1954 23 (U) 1956 22 (U) 1957 22 (U)	1947 33.22 (U)	
3-2750-04	X	1948 22 (U) 1954 22 (U)	1948 46.86 (U)	
3-2750-05	X	1949 23 (U) 1953 20 (U)	1949 9.24 (U) 1953 7.45 (U) 1956 9.21 (U) 1957 8.67 (U) 1958 9.13 (U)	1959 9.60 (U) 1960 9.34 (U) 1961 9.49 (U) 1962 9.98 (U) 1963 8.85 (U)

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	F T L I D O S G I M I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2750-06	X	1949 22 (U)	1949 37.21 (U)	
		1953 24 (U)		
		1954 23 (U)		
		1956 22 (U)		
		1950 28 (U)	1950 38.33 (U)	1958 39.55 (U)
3-2750-07		1953 28 (U)		
		1954 28 (U)		
		1956 27 (U)		
		1957 27 (U)		
		1958 28 (U)		
3-2751-01	X	1948 21 (U)	1948 63.31 (U)	1958 60.91 (U)
		1949 22 (U)	1949 63.11 (U)	1959 60.21 (U)
		1954 22 (U)	1954 58.81 (U)	1960 62.35 (U)
		1956 22 (U)	1957 59.93 (U)	1961 63.21 (U)
		1957 20 (U)		
3-2751-022				MONTHLY (B) 1973-84.
3-2751-02	X	1972 19 (U)		SEE 3-2751-022.
3-2751-03	X			Do.
3-2751-04				
3-2850-01	X			
3-2850-02	X	1949 120 (U)		
3-2850-03	X	1949 24 (U)	1949 18.00 (U)	1959 19.19 (U)
		1953 23 (U)	1954 16.97 (U)	1960 20.10 (U)
		1954 16 (U)	1957 20.17 (U)	1961 19.36 (U)
		1956 17 (U)	1958 18.45 (U)	
		1949 27 (U)	1949 9.00 (U)	1958 8.40 (U)
3-2850-04	X	1953 25 (U)	1954 9.30 (U)	1959 9.15 (U)
		1954 25 (U)	1956 9.21 (U)	1960 10.12 (U)
			1957 8.68 (U)	1961 9.76 (U)

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2850-05	X	1949 40 (U) 1956 38 (U)	1949 16.60 (U) 1958 20.16 (U)	
		1953 41 (U) 1957 38 (U)	1954 17.26 (U) 1959 19.26 (U)	
		1954 41 (U) 1958 36 (U)	1956 19.83 (U) 1960 21.86 (U)	
			1957 19.22 (U) 1961 20.45 (U)	
3-2850-06	X	1949 29 (U) 1958 32 (U)	1949 8.52 (U) 1954 7.42 (U)	
		1953 31 (U) 1959 30 (U)		
		1954 31 (U) 1960 27 (U)		
		1956 32 (U) 1961 36 (U)		
3-2850-07	X	1949 42 (U) 1958 36 (U)	1949 7.33 (U)	
		1953 39 (U) 1960 35 (U)		
		1954 38 (U) 1961 25 (U)		
		1956 38 (U) 1963 33 (U)		
3-2853-01	X			MONTHLY (P) 1932-39, 1959-60.
3-2853-02	X			MONTHLY (P) 1927-39, 1959-60.
3-2853-03				MONTHLY (P) 1925-39, 1959-60.
3-2953-01	X			MONTHLY (P) 1929-39, 1959-60.
3-2953-02	X			
3-3053-01	X			
3-3154-01	X			
3-3250-01				
3-3250-02	X	ANNUAL (U) 1939, 1942-43, 1950-54, 1956-62	ANNUAL (U) 1939, 1942-43, 1947, 1949-54, 1956-62	
3-3251-01		MONTHLY (U) 1929-84	MONTHLY (U) 1929-74	

Table 8. Available data for wells, shafts and tunnels in Winward Oahu--Continued

WELL NUMBER	FLIGHT ODIS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3251-02	X			ANNUAL (B) 1944-55. MONTHLY (B) 1956-67.
3-3350-01	X			
3-3351-01	X			
3-3351-02	X	1937 57 (U) 1944 53 (U) 1939 54 (U) 1945 50 (U) 1942 55 (U) 1947 58 (U) 1943 62 (U) 1960 62 (U)	1959 3.48 (U) 1961 3.28 (U) 1960 3.44 (U) 1962 3.10 (U)	
3-3351-03	X	1945 78 (U)	1945 2.64 (U) 1961 3.48 (U) 1960 4.62 (U)	
3-3352-01	X	MONTHLY (U) 1935-84	MONTHLY (U) 1935-84	
3-3353-01Z	-			MONTHLY (B) 1981-84.
3-3353-01	X	1973 26 (D)	1973 18.00 (B)	SEE 3-3353-01Z.
3-3353-02	X	1975 26 (U)	1975 24.60 (B)	Do.
3-3353-03	X	1975 28 (U)	1974 123.63 (B) 1975 115.70 (B)	Do.
3-3353-04	X	1975 28 (U)	1975 87.50 (S)	Do.
3-3452-01	X	ANNUAL (U) 1939, 1942-45, 1947, 1947-48, 1950-59	1939 8.65 (U) 1956 8.43 (U) 1942 9.58 (U) 1962 7.67 (U) 1948 8.66 (U)	MONTHLY (B) 1957-60.
3-3453-01	X	ANNUAL (U) 1939, 1942-45, 1947, 1952-54, 1956-62	ANNUAL (U) 1939, 1942-45, 1953-54, 1956-63	
3-3453-02	X	1942 662 (U) 1959 735 (U) 1943 715 (U) 1960 750 (U) 1944 725 (U) 1961 739 (U) 1958 700 (U)	1959 5.94 (U) 1961 5.16 (U) 1960 5.02 (U)	

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3453-03	X	1958 54 (U)	1958 21.78 (U)	
		1959 67 (U)	1959 21.18 (U)	
		1960 62 (U)	1960 20.78 (U)	
		1961 60 (U)	1961 20.68 (U)	
		1963 63 (U)		
3-3453-04		1959 4,780 (U)	1959 6.57 (U)	
3-3453-05	X	1959 6,720 ppm (U)	1959 5.08 (U)	
		1960 12,500 ppm (U)	1960 5.86 (U)	
		1961 7,280 ppm (U)	1962 5.84 (U)	
		1962 10,500 ppm (U)	CONTINUOUS (U) 1960-61	
3-3453-06Z				MONTHLY (B) 1978-84.
3-3453-06	X	1974 33 (U)	1974 18.11 (U)	SEE 3-3453-06Z.
3-3453-07	X	1974 40 (U)	1974 17.70 (U)	DO.
3-3453-08				
3-3453-10	X		1982 20.00 (S)	
3-3454-01	X	1982 18 (U)	1982 20.70 (U)	
3-3553-01	X	MONTHLY (K) 1937-50	ANNUAL (U) 1939, 1942-54,	MONTHLY (B) 1957.
		ANNUAL (U) 1939, 1942-54, 1956-59, 1972, 1975	1956-60, 1975	
3-3553-02	X	1958 33 (U)	1958 20.73 (U)	MONTHLY (B) 1960-84.
		1959 31 (U)	1959 20.19 (U)	
		BIMONTHLY (B) 1960-71		
3-3553-03Z				MONTHLY (B) 1969-84.
3-3553-03	X	1972 144 (U)		SEE 3-3553-03Z.
		WEEKLY (B) 1969-72		

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	FT L E I E O I O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3553-04	X	1967 WEEKLY 36 (B) 1969-72 (B)		SEE 3-3553-03Z.
3-3553-05	X	MONTHLY (U) 1973-74	CONTINUOUS (U) 1968-74 QUARTERLY (B) 1968-84	
3-3553-06	X	1967 WEEKLY 34 (B) 1972 (B) 1969-72 (B)	1967 19.53 (U)	SEE 3-3553-03Z.
3-3553-07	X	1967 WEEKLY 28 (B) 1969-72 (B) QUARTERLY (U) 1972-77	1967 22.43 (B)	Do.
3-3553-08		1972 WEEKLY 58 (U) 1969-72 (B)		Do.
3-3554-01Z		MONTHLY (K) 1937-49, 1962-64, 1968-69 (U) 1960, 1962-64 ANNUAL (U) 1942-45, 1952-54, 1956-59		MONTHLY (K) 1932-71.
3-3554-01	X	SEE 3-3554-01Z		SEE 3-3554-01Z.
3-3554-02	X	do.		Do.
3-3554-03	X	1972 WEEKLY 82 (U) (B) 1969-72	1967 19.71 (B)	SEE 3-3553-03Z.
3-3554-04	X		1981 116.00 (D)	
3-3654-01	X	1953 42 (U) 1959 35 (U) 1954 38 (U) 1960 34 (U) 1956 38 (U) 1961 33 (U) 1957 39 (U) 1962 35 (U) 1958 37 (U) 1963 37 (U)		
3-3654-02		MONTHLY (U) 1912-19, 1921, 1924-75, 1977-78	MONTHLY (U) 1911-19, 1921, 1924-75, 1977-78	

Table 8. Available data for wells, shafts and tunnels in Windward Oahu

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3654-03	MONTHLY (K) ANNUAL (U)	1938-50 1939, 1942-48, 1951-53, 1956-60, 1962	ANNUAL (U) 1939, 1942-48, 1951-53, 1956-63	MONTHLY (B) 1978-83.
3-3654-04	ANNUAL	1939, 1942-45, 1947, 1951-54, 1956-58, 1960-62	1959 19.02 (U) 1960 19.08 (U) CONTINUOUS (U) 1961-65	
3-3655-01	BIMONTHLY (B) MONTHLY (U)	1959-71 1972-84	ANNUAL (B) 1959-71	ANNUAL (B) 1944-55. MONTHLY (B) 1956-84.
3-3755-01				
3-3755-02	ANNUAL MONTHLY	1939, 1942-54, 1957, 1959-64 1974-78	ANNUAL (U) 1939, 1942-48, 1950-52, 1954, 1957, 1959-60, 1962-63 MONTHLY (U) 1974-78	
3-3755-03	ANNUAL MONTHLY	1942-54, 1956-59 1960, 1962-64	ANNUAL (U) 1939, 1942-52, 1954, 1956-59 MONTHLY (U) 1960-64	
3-3755-04	ANNUAL MONTHLY QUARTERLY	1931-32, 1942-45, 1947, 1950-54, 1956-60, 1962, 1972 1938-50 1962-64	1954 17.10 (U) 1959 16.99 (U) 1956 16.89 (U) 1960 16.56 (U) 1957 16.27 (U) 1962 16.98 (U) 1958 16.96 (U)	
3-3755-05	ANNUAL MONTHLY	1929-34, 1942-45, 1947, 1951-54, 1956-64 1937-50	1956 18.23 (U) 1958 18.23 (U) 1957 17.66 (U) 1959 18.26 (U) MONTHLY (U) 1960-64 CONTINUOUS (U) 1968-77	MONTHLY (K) 1926-55.

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	DEPTH	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3755-06	X	ANNUAL (U) 1932-34, 1942, 1944-45, 1947, 1951-54, 1957-58, 1960, 1970 MONTHLY (K) 1937-50, 1962-64, 1968-69		MONTHLY (K) 1931-71.
3-3855-01			1940 17.32 (U)	
3-3855-02	X	1942 36 (U) 1945 52 (U) 1943 38 (U) 1947 43 (U) 1944 42 (U)	1939 16.80 (U) 1944 12.52 (U) 1942 13.98 (U) 1945 11.57 (U) 1943 13.44 (U)	
3-3855-03	X	QUARTERLY (U) 1962-64	ANNUAL (U) 1939, 1942-47, 1951-54, 1956-60, 1962-63	
3-3855-04	X	MONTHLY (K) 1937-50 ANNUAL (U) 1942-48, 1951-54, 1956-63, 1975	ANNUAL (U) 1942-48, 1951-54, 1956-63	
3-3855-05		ANNUAL (U) 1939, 1942-47, 1949-54, 1956-64, 1972	ANNUAL (U) 1939, 1942-46, 1952, 1954, 1956-58, 1960-64	
3-3855-06Z		1966 64 (U) 1969 66 (U)		ANNUAL (P) 1965-77, 1981.
3-3855-06	X	MONTHLY (K) 1937-50, 1963-64 ANNUAL (U) 1939, 1942-54, 1957, 1962-64, 1966, 1969, 1972, 1975	ANNUAL (U) 1939, 1942-46, 1948, 1950, 1957, 1962, 1966, 1969	SEE 3-3855-06Z.
3-3855-07		MONTHLY (K) 1937-50, 1962-64, 1968-69 ANNUAL (U) 1939, 1942-47, 1949-54, 1956-58, 1972, 1975	ANNUAL (U) 1939, 1942-47, 1949-54, 1956-58	Do.

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	F L I E L O O S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3855-08		MONTHLY (K) 1937-50, 1962 ANNUAL (U) 1939, 1942-54, 1956-60, 1962-63, 1972, 1975	ANNUAL (U) 1939-40, 1942-54, 1956-58, 1962-63	SEE 3-3855-06Z.
3-3855-09		ANNUAL (U) 1939, 1942-45, 1947, 1950-54, 1956-60, 1963-64, 1966, 1969-70, 1972, 1975	1952 15.61 (U) 1954 14.89 (U) 1953 14.78 (U) 1970 15.80 (U)	
3-3855-10	X	ANNUAL (U) 1939, 1942-45, 1947, 1950-54, 1956-60, 1962-64, 1966, 1969, 1972, 1975		ANNUAL (P) 1958-77, 1981.
3-3855-11				
3-3856-01Z		MONTHLY (K) 1932-33, 1937-50, 1962-64, 1968-69 ANNUAL (U) 1942-45, 1947, 1951, 1953-54, 1956-59, 1962-64, 1970, 1975		MONTHLY (K) 1931-71.
3-3856-01		SEE 3-3856-01Z		SEE 3-3856-01Z.
3-3856-02		do.		Do.
3-3856-03		do.		Do.
3-3856-04	X	do.		Do.
3-3856-05	X	do.		Do.
3-3856-06	X	do.		Do.

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	FLIGHTS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3856-07	X	ANNUAL (U) 1931-34, 1943-44, 1953-54, 1956-58, 1960, 1970 MONTHLY (K) 1937-50, 1962-64, 1968-69		MONTHLY (K) 1931-71.
3-3955-01		MONTHLY (K) 1937-50 ANNUAL (U) 1942-48, 1950-54, 1956-60	ANNUAL (U) 1946-48, 1953-54, 1956-61	
3-3955-02		ANNUAL (U) 1942-47, 1949-54, 1962-64	ANNUAL (U) 1944-47, 1950, 1952-54, 1958, 1962-64	
3-3956-01		ANNUAL (U) 1925, 1929-34, 1942, 1944, 1947, 1950-54, 1956-64, 1971-72 MONTHLY (K) 1937-50, 1962-64, 1968-69	1930 17.47 (U)	MONTHLY (K) 1923, 1926-28, 1930-71. (B) 1978, 1983.
3-3956-02	X X	MONTHLY (K) 1937-50, 1962-64, 1968-69 ANNUAL (U) 1939, 1942-48, 1950-54, 1956-64, 1971-75	ANNUAL (U) 1930, 1939, 1942-48, 1952, 1954, 1956-64	
3-3956-03		ANNUAL (U) 1939, 1942-48, 1950-54, 1956-60, 1962-64, 1966, 1969, 1975	ANNUAL (U) 1939, 1942-46, 1948, 1950-52, 1954, 1956, 1962-63	
3-3956-04		ANNUAL (U) 1929, 1943-47, 1950-54, 1956-60, 1962-63, 1966 MONTHLY (U) 1972-84	ANNUAL (U) 1942-45, 1950, 1957	

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	F I T L L I E O O I S G W I T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-3956-05		MONTHLY (K) 1937-50, 1962-64, 1968-69 ANNUAL (U) 1942-54, 1956-60, 1962-64, 1966, 1975	ANNUAL (U) 1942-52, 1954, 1956-64, 1966	
3-3956-06		ANNUAL (U) 1942-48, 1950-54, 1956	ANNUAL (U) 1942-48, 1950-53	
3-3957-01Z		ANNUAL (U) 1925, 1929-34, 1942-45, 1947, 1950-54, 1957-64, 1971 MONTHLY (K) 1937-50, 1962-64, 1968-69	MONTHLY (K) 1904-23, 1926-71.	
3-3957-01		1925 62 (U)	1930 16.96 (U)	SEE 3-3957-01Z.
3-3957-02		SEE 3-3957-01Z		Do.
3-3957-03		do.		Do.
3-3957-04		do.		Do.
3-3957-05	X	do.		Do.
3-3957-06		do.		Do.
3-3957-07	X	MONTHLY (K) 1938-50, 1962-64, 1968-69 ANNUAL (U) 1942, 1944-45, 1947, 1951, 1953-54, 1956-60, 1963-64, 1971-73		MONTHLY (K) 1937-71.
3-4056-01	X	MONTHLY (K) 1937-50, 1962-64, 1968-69 ANNUAL (U) 1942-45, 1947, 1950-54, 1956-64, 1969-72	ANNUAL (U) 1930, 1945, 1957-60, 1962-64	

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	FILED OBSERVATIONS	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-4057-012		ANNUAL (U) 1925, 1929-34, 1942-45, 1947, 1950-54, 1956-64, 1971-72 MONTHLY (K) 1937-50, 1962-64, 1968-69		MONTHLY (K) 1904-23, 1926-71. (B) 1980-84.
3-4057-01		MONTHLY (U) 1972-79	1930 15.65 (U)	SEE 3-4057-012.
3-4057-02		SEE 3-4057-012		Do.
3-4057-03				
3-4057-042		1957 1,560 (U) 1962 508 (U)		ANNUAL (K) 1940-71.
3-4057-04	X	1980 84 (U) 1957 1,180 (U)	1930 15.60 (U) 1959 11.62 (U) 1957 10.34 (U)	SEE 3-4057-042.
3-4057-05		1980 78 (U) MONTHLY (U) 1912-16, 1924-78	MONTHLY (U) 1911-18, 1921, 1926-58 CONTINUOUS (U) 1958-84	
3-4057-06	X	ANNUAL (U) 1929-34, 1942-45, 1947, 1951, 1953-54, 1956-64 MONTHLY (K) 1937-50, 1962-64, 1968-69 (U) 1971-76		MONTHLY (K) 1923, 1930-71. (B) 1980-84.
3-4057-072		ANNUAL (U) 1925, 1929-34 MONTHLY (K) 1937-50		MONTHLY (K) 1926-28, 1930-71.
3-4057-07		MONTHLY (K) 1962-64, 1968-69	1930 16.95 (U) MONTHLY (U) 1960-64 CONTINUOUS (U) 1962	SEE 3-4057-072.
3-4057-08	X	SEE 3-4057-012		SEE 3-4057-012.
3-4057-09	X	SEE 3-4057-042		SEE 3-4057-042.

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	F T L I E O O S G W T	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-4057-10	X X	(U) 1942, 1944-45, 1947, 1951, 1953-54, 1956-57, 1959-62 (K) 1962-63		
3-4057-11	X	SEE 3-4057-04Z		
3-4057-12	X	do.		Do.
3-4057-13	X	75 (U)	1940 11.93 (U)	SEE 3-4057-01Z.
3-4057-14	X	70 (U)	1940 12.77 (U)	Do.
3-4057-15	X			MONTHLY (B) 1981-84.
3-4057-16	X			
3-4100-01	X	(K) 1929-34, 1938-64, 1968-69 (U) 1971-84	ANNUAL (U) 1930, 1952, 1957-64	MONTHLY (K) 1930-38, 1940-69. (B) 1981, 1983.
3-4100-02	X	(U) 1939, 1943-45, 1947, 1949-50, 1952-62, 1971 (P) 1940, 1950-55 (U) 1962-65		
3-4100-03	X X			
3-4157-01		1939 332 ppm (U) 1942 844 ppm (U) 1943 944 ppm (U) 1944 1,810 ppm (U) 1945 2,400 ppm (U) 1946 1,040 ppm (U) 1947 1,650 ppm (U) 1948 2,820 ppm (U)	1939 10.21 (U) 1945 8.36 (U) 1942 11.26 (U) 1946 11.46 (U) 1943 11.98 (U) 1947 8.84 (U) 1944 10.00 (U) 1948 9.09 (U)	

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	FLUORIDE OIOS GWT	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-4157-02	X	ANNUAL (U) 1939, 1942-48, 1950-54, 1956-63	ANNUAL (U) 1930, 1939, 1942-46, 1948, 1950-54, 1956-63	
3-4157-03		ANNUAL (U) 1929-32, 1939, 1942-47, 1950-54, 1956-60, 1962-64, 1971	ANNUAL (U) 1939, 1942-47, 1950-53, 1956-60, 1962-64	
		MONTHLY (K) 1937-50, 1962-64		
3-4157-04	X X	ANNUAL (U) 1932-34, 1942, 1944-45, 1947, 1949-54, 1956-64, 1970-72		MONTHLY (K) 1930-71, (B) 1980, 1982-84.
		MONTHLY (K) 1937-50, 1962-64, 1968-69		
3-4158-012		ANNUAL (U) 1925, 1929-34, 1942-45, 1952, 1954, 1958, 1971		MONTHLY (K) 1904-23, 1926-71.
		MONTHLY (K) 1937-50, 1962-64, 1968-69		
3-4158-01		SEE 3-4158-012	1930 14.17 (U)	SEE 3-4158-012.
3-4158-02		do.		Do.
3-4158-03		do.		Do.
3-4158-04		do.		Do.
3-4158-05		do.		Do.
3-4158-06		do.		Do.
3-4158-07		do.		Do.
3-4158-08		do.		Do.
3-4158-09	X	do.		Do.

Table 8. Available data for wells, shafts and tunnels in Windward Oahu--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in mg/L) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-4158-10	X	SEE 3-4158-01Z		SEE 3-4158-01Z.
3-4158-11	X	do.		Do.
3-4158-12	X	ANNUAL (U) 1942, 1944-45, 1953-54, 1956-60, 1962-64, 1971-72	1942 12.22 (U)	ANNUAL MONTHLY (A) 1942-47. (B) 1978.
3-4158-13	X	1945 136 (U) 1959 272 (U)	1945 9.47 (U) 1959 9.22 (U) 1958 10.22 (U) 1961 10.01 (U)	ANNUAL (A) 1942-47.
3-4159-01Z		ANNUAL MONTHLY (K) 1925, 1929-34, 1939-42 (K) 1962-64, 1968-69		MONTHLY (K) 1903-23, 1926-71.
3-4159-01	X	MONTHLY (K) 1938-64, 1968-69 ANNUAL QUARTERLY (U) 1942-54, 1956-62 (U) 1971-74	ANNUAL (U) 1939, 1942, 1944-46, 1948-49, 1952, 1954, 1956-60 MONTHLY (U) 1962-65	SEE 3-4159-01Z.
3-4159-02	X	1981 260 (U) MONTHLY (U) 1962-64		Do.
3-4258-01			1939 8.01 (U)	
3-4258-02		1939 117 (U) 1952 425 (U) 1942 126 (U) 1953 464 (U) 1943 147 (U) 1955 480 (U) 1944 168 (U) 1956 533 (U) 1945 170 (U) 1957 539 (U)	1939 8.29 (U) 1944 7.30 (U) 1942 8.17 (U) 1945 7.18 (U) 1943 8.97 (U)	
3-4258-03		1939 116 (U)		
3-4258-04	X	ANNUAL (U) 1942-45, 1947, 1950, 1952-54, 1956-62 MONTHLY (U) 1962-64, 1971-84	1939 9.79 (U) 1943 10.18 (U) 1942 7.84 (U) 1944 8.06 (U)	
3-4258-05	X			MONTHLY (B) 1980.
3-4258-06	X			
3-4258-07	X			

WAIANA'E AREA

List of abbreviations

For table 9:

Ground-water body:

WAIANA'E-DIKE = Waianae dike-impounded ground-water body

For table 10:

LOG = Log data available

FLOW = Flow data available

TEST = Pump test data available

C/O:

C = Cased well

O = Open hole

Sources (in parentheses):

A = U.S. Army

B = City and County of Honolulu Board of Water Supply

D = Driller

K = Kahuku Plantation

N = U.S. Navy

O = Oahu Sugar Company

P = Private

S = State of Hawaii (various agencies)

U = U.S. Geological Survey

W = Waiatua Sugar Company

X = Unknown

Z = Other

U = Use of water

A = Air conditioning

B = Bottling

C = Commercial

E = Power generation

F = Fire

H = Domestic

I = Irrigation

J = Industrial cooling

N = Industrial

P = Public supply

Q = Aquaculture

R = Recreation

S = Stock supply

T = Institutional

U = Unused

Z = Other

S = Status of site

C = Emergency supply

O = Observation

T = Test

U = Unused

W = Withdrawal

Z = Destroyed

Table 9. General information on the wells, shafts and tunnels in the Waianae area

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-2208-01	5	WAIANAЕ-DIKE	10.00	30.00	0	-----	1962	USGS	-	Z	ABANDONED AUG 1962.
3-2307-01	5	WAIANAЕ-DIKE	479.00	489.00	C	489.00	1940	HONOLULU BWS	-	Z	FILLED MAY 1969.
3-2308-01	5	WAIANAЕ-DIKE	60.00	61.00	C	58.00	1949	GRACE BROS	U	U	
3-2308-02	5	do.	115.00	154.00	C	123.00	1952	MIKILUA ASSN.	U	U	
3-2407-01	5	WAIANAЕ-DIKE	625.00	203.00	C	-----	1940	HONOLULU BWS	U	T	
3-2407-02	5	do.	625.00	178.00	C	-----	1940	do.	U	T	
3-2408-01	5	WAIANAЕ-DIKE	33.00	55.00	C	55.00	1949	S KAKAZU	U	U	
3-2408-02	5	do.	59.00	75.00	C	64.00	1950	K OSHIRO	I	W	
3-2408-03	5	do.	46.00	66.50	C	55.00	1951	H SHIGETA	I	W	
3-2408-04	5	do.	42.00	63.00	C	50.00	1951	K OSHIRO	U	U	
3-2408-05	5	do.	62.00	86.00	C	70.00	1957	E NAKATA	S	W	
3-2408-06	5	do.	40.00	93.00	C	73.00	1962	PERM CEMENT	N	W	
3-2408-07	5	do.	40.00	93.00	C	80.00	1962	do.	N	W	
3-2409-01	2	WAIANAЕ-DIKE	56.00	76.00	C	-----	1950	OSHIRO & TAKUSHI	-	Z	ABANDONED OCT 1950.
3-2409-02	2	do.	56.00	73.00	C	73.00	1950	do.	I	W	
3-2409-03	2	do.	56.00	73.00	C	60.00	1950	H AFUSO	I	W	
3-2409-04	2	do.	59.00	73.00	C	70.00	1950	H OKAWA	U	U	
3-2409-05	2	do.	49.00	76.00	C	60.00	1951	Y KAMEYA	I	W	
3-2409-06	2	do.	49.00	64.00	O	-----	1951	do.	U	T	
3-2409-07	2	do.	56.00	73.00	C	73.00	1951	C ADANIYA	I	W	
3-2409-08	2	do.	56.00	73.00	C	73.00	1952	G RAMILO	U	U	
3-2409-09	2	do.	53.00	72.00	C	72.00	1952	E YAMAGUCHI	S	W	
3-2409-10	2	do.	55.00	69.00	C	69.00	1952	FORONDA & HERN	S	W	
3-2409-11	2	do.	52.00	70.00	C	70.00	1952	P SHIMABUKURO	I	W	
3-2409-12	2	do.	58.00	76.00	C	76.00	1953	H KANESHIRO	S	W	
3-2409-13	2	do.	58.00	77.00	C	77.00	1953	S OSHIRO	S	W	
3-2409-14	2	do.	55.00	71.00	C	71.00	1954	A TRINIDAD	I	W	
3-2409-15	2	do.	47.00	47.00	C	-----	1954	T AGUILLIO	-	Z	ABANDONED.
3-2409-16	2	do.	55.00	65.00	C	65.00	1954	C KAM	I	U	
3-2409-17	2	do.	45.00	60.00	C	60.00	1955	I TSUZUKI	U	U	
3-2409-18	2	do.	50.00	59.00	C	59.00	1955	H KAUIHOU	U	U	
3-2409-19	2	do.	55.00	80.00	C	79.00	1957	H OSHIRO	S	W	
3-2409-20	2	do.	51.00	60.00	C	60.00	1955	F TSUCHITORI	S	W	
3-2409-21	2	do.	60.00	70.00	C	70.00	1955	K CHINEN	I	W	

Table 9. General information on the wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-2409-22	2	WAIANA-E-DIKE	59.00	72.00	72.00	6	1956	L LOO	U	
3-2409-23	2	do.	67.00	85.00	77.00	8	1956	T TOMITA	I	
3-2409-24	2	do.	51.00	68.00	68.00	6	1957	S ZAKIMI	I	
3-2410-01	2	WAIANA-E-DIKE	36.00	54.00	54.00	6	1954	H OTAKI	U	
3-2410-02	2	do.	10.00	100.00	0	0	1962	USGS	-	Z ABANDONED SEPT 1962.
3-2508-01	5	WAIANA-E-DIKE	141.80	144.90	0	0	1935	HONOLULU BMS	U	
3-2508-02	5	do.	170.00	175.00	0	0	1935	do.	U	
3-2508-03	5	do.	78.00	80.00	80.00	6	1950	H HONG	I	
3-2508-04	5	do.	78.00	97.00	97.00	6	1951	T CHUN	U	
3-2508-05	5	do.	72.00	91.00	91.00	6	1952	K CHEE	I	
3-2508-06	5	do.	64.00	82.00	82.00	6	1955	J FERNADEZ	U	
3-2508-07	5	do.	77.00	85.00	76.00	6	1955	H HONG	I	
3-2508-08	5	do.	71.00	84.00	84.00	6	1955	T KANESHIRO	U	
3-2509-01	2	WAIANA-E-DIKE	55.00	80.00	72.00	7	1948	B OLIVA	U	
3-2509-02	2	do.	57.00	66.00	60.00	6	1950	Y YOSHISATO	I	
3-2509-03	2	do.	57.00	66.00	60.00	7	1951	T YAMADA	I	
3-2509-04	2	do.	56.00	73.00	73.00	8	1953	G BURNINGHAM	U	
3-2509-05	2	do.	57.00	74.00	66.00	8	1959	H TOKUDA	H	
3-2509-06	2	do.	49.00	48.00	48.00	6	1955	E HONG	I	
3-2510-01	2	WAIANA-E-DIKE	32.50	118.00	36.00	6	1947	T MAEMOTO	U	
3-2510-02	2	do.	34.00	50.00	50.00	4	1950	F INAOKU	U	
3-2510-03	2	do.	16.00	16.00	16.00	6	1952	A SCHUSTEK	U	
3-2510-04	2	do.	10.00	40.00	0	0	1962	USGS	-	Z ABANDONED SEPT 1962.
3-2510-05	2	do.	10.00	100.00	0	0	1962	do.	-	Z ABANDONED SEPT 1962.
3-2607-01	5	WAIANA-E-DIKE	395.00	451.00	451.00	8	1959	US NAVY	U	
3-2608-01	5	WAIANA-E-DIKE	75.00	87.00	87.00	6	1954	M MORIKAWA	I	
3-2609-01	2	WAIANA-E-DIKE	80.00	800.00	0	0	1884	L MCCANDLESS	-	Z LOST.
3-2609-02	2	do.	80.00	800.00	0	0	1886	do.	-	Z LOST.
3-2609-03	2	do.	46.00	88.00	64.00	6	1941	C GOMES	I	
3-2609-04	2	do.	48.00	115.00	97.00	6	1943	S ARAKI	U	
3-2609-05	2	do.	42.00	68.00	68.00	6	1943	M KANESHIRO	I	
3-2609-06	2	do.	42.00	85.00	84.00	6	1943	A BRAZIL	S	

Table 9. General information on the wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U	S	REMARKS
3-2609-07	2	WATANAË-DIKE	36.00	95.00	88.00	6	1944	Y YONASHIRO	I	W	
3-2609-08	2	do.	52.00	75.00	60.00	6	1945	C CHUN	U	U	
3-2609-09	2	do.	65.00	95.00	85.00	6	1945	H KANESHIRO	U	U	
3-2609-10	2	do.	39.00	60.00	59.00	6	1946	W HOY	U	U	
3-2609-11	2	do.	52.00	63.00	63.00	6	1946	Y AGENA	U	U	
3-2609-12	2	do.	79.00	90.00	76.00	6	1946	A LEE	U	U	
3-2609-13	2	do.	69.00	87.00	75.00	6	1946	J MAKIYA	-	Z	SEALED OCT 1967.
3-2609-14	2	do.	70.00	84.00	84.00	6	1950	A CHING	U	U	
3-2609-15	2	do.	31.00	51.00	51.00	6	1951	G FIGUEIRA	I	W	
3-2609-16	2	do.	43.00	80.00	80.00	6	1953	G GREGORY	I	W	
3-2609-17	2	do.	35.00	42.00	39.00	6	1954	L KAILI	I	W	
3-2609-18	2	do.	36.00	41.00	40.00	6	1955	A TANG	U	U	
3-2610-01	2	WATANAË-DIKE	11.00	55.00	33.00	6	1939	G FRANE	U	U	
3-2610-02	2	do.	10.00	65.00	63.00	6	1944	M TAKABAYASHI	U	U	
3-2610-03	2	do.	20.00	35.00	28.00	6	1945	K KOBASHIGAWA	U	U	
3-2610-04	2	do.	18.00	30.00	22.00	6	1945	T NASHIRO	U	U	
3-2610-05	2	do.	21.00	37.00	32.00	6	1950	A AGENA	U	U	
3-2610-06	2	do.	51.00	63.00	-----	6	1952	Y AGENA	U	U	
3-2610-07	2	do.	25.00	38.00	30.00	6	1954	J AGENA	I	W	
3-2611-01	2	WATANAË-DIKE	10.00	50.00	-----	-----	1962	USGS	-	Z	ABANDONED AUG 1962.
3-2611-02	2	do.	5.00	40.00	-----	-----	1962	do.	-	Z	ABANDONED AUG 1962.
3-2611-03	2	do.	20.00	40.00	-----	-----	1962	do.	-	Z	ABANDONED AUG 1962.
3-2611-04	2	do.	20.00	40.00	-----	-----	1962	do.	-	Z	ABANDONED SEPT 1962.
3-2709-01	2	WATANAË-DIKE	52.00	75.00	63.00	6	1938	N BURGESS	U	U	
3-2709-02	2	do.	55.00	75.00	-----	6	1940	GRACE BROS	U	U	
3-2709-03	2	do.	62.00	150.00	150.00	10	1941	do.	U	U	
3-2709-04	2	do.	53.00	100.00	87.00	6	1943	S SAKIHAMA	U	U	
3-2709-05	2	do.	49.00	95.00	85.00	6	1944	G NAKATA	U	U	
3-2709-06	2	do.	106.00	157.00	-----	-----	1945	Y ASATO	-	Z	ABANDONED/NO WATER.
3-2709-07	2	do.	94.00	175.00	169.00	6	1945	H ARAKAKI	S	W	
3-2709-08	2	do.	100.00	190.00	172.00	6	1945	S KAMAKA	I	W	
3-2709-09	2	do.	72.00	111.00	107.00	6	1945	H KONISHI	U	U	
3-2709-10	2	do.	86.00	118.00	106.00	6	1945	W NAKADA	S	W	
3-2709-11	2	do.	77.00	100.00	100.00	6	1945	Y AGENA	U	U	
3-2709-12	2	do.	124.00	290.00	209.00	6	1947	J PETERS	U	U	
3-2709-13	2	do.	83.00	112.00	57.00	6	1949	Y OSHIRO	U	U	

Table 9. General information on the wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	C CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
3-2709-14	2	WAIANA-E-DIKE	90.00	93.00	0	-----	1950	H HOY	U	Z ABANDONED SEPT 1950.
3-2709-15	2	do.	89.00	147.00	C	85.00	1951	do.	U	
3-2709-16	2	do.	44.00	86.00	C	86.00	1952	K TAIRA	U	
3-2709-17	2	do.	75.00	118.00	C	107.00	1953	C SUGIMOTO	U	
3-2709-18	2	do.	85.00	115.00	C	115.00	1953	K UYEUNTEN	U	
3-2710-01	2	WAIANA-E-DIKE	40.00	95.00	C	95.00	1945	K LUM	U	
3-2710-02	2	do.	48.00	80.00	C	66.00	1958	T AU	S	W
3-2711-01	2	WAIANA-E-DIKE	4.00	101.00	0	-----	1939	T GUARD	U	Z ABANDONED/SALTY WATER.
3-2711-02	2	do.	24.00	42.00	C	30.00	1950	C HO	U	
3-2711-03	2	do.	12.00	210.00	C	180.00	1960	USGS	U	
3-2711-04	2	do.	12.00	30.00	C	30.00	1960	do.	U	O
3-2712-01Z	2	WAIANA-E-DIKE	30.00	180.00	C	77.00	1919	WAIANA-E DEV CO.	U	
3-2712-01	2	do.	30.00	128.00	C	79.00	1919	do.	U	
3-2712-02	2	do.	30.00	242.00	C	77.00	1919	do.	U	
3-2712-03	2	do.	30.00	144.00	C	75.00	1920	do.	U	
3-2712-04	2	do.	30.00	135.00	C	77.00	1920	do.	U	
3-2712-05	2	do.	30.00	142.00	C	142.00	1920	do.	U	
3-2712-06	2	do.	30.00	145.00	C	81.00	1919	do.	U	
3-2712-07	2	do.	30.00	155.00	C	65.00	1919	do.	U	
3-2712-08	2	do.	30.00	158.00	C	58.00	1919	do.	U	
3-2712-09	2	do.	30.00	158.00	C	58.00	1919	do.	U	
3-2712-10	2	do.	30.00	158.00	C	58.00	1920	do.	U	
3-2712-11	2	do.	30.00	235.00	C	96.00	1920	do.	U	
3-2712-12	2	do.	30.00	200.00	C	99.00	1920	do.	U	
3-2712-13	2	do.	30.00	210.00	C	97.00	1920	do.	U	
3-2712-14	2	do.	30.00	249.00	C	99.00	1920	do.	U	
3-2712-15	2	do.	30.00	235.00	C	106.00	1920	do.	U	
3-2712-16	2	do.	30.00	200.00	C	100.00	1920	do.	U	
3-2712-17	2	do.	30.00	190.00	C	113.00	1920	do.	U	
3-2712-18	2	do.	30.00	239.00	C	52.00	1919	do.	U	
3-2712-19	2	do.	30.00	245.00	C	78.00	1919	do.	U	
3-2712-20	2	do.	30.00	188.00	C	78.00	1920	do.	U	
3-2712-21	2	do.	30.00	190.00	C	91.00	1920	do.	U	
3-2712-22	2	do.	30.00	165.00	C	75.00	1919	do.	U	
3-2712-23	2	do.	30.00	155.00	C	-----	1920	do.	U	
3-2712-24	2	do.	30.00	150.00	C	-----	1920	do.	U	
3-2712-25	2	do.	30.00	150.00	C	-----	1920	do.	U	
3-2712-26	2	do.	30.00	150.00	C	-----	1920	do.	U	

3-2712-01 TO 27.

Table 9. General information on the wells, shafts and tunnels in the Waianae area - Continued

WELL NUMBER	MAP NO.	GROUND-		WELL DEPTH (ft)	C CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
		WATER BODY	ALT. (ft)							
3-2712-27	2	WAIANAЕ-DIKE	30.00	160.00	C	12	1920	WAIANAЕ DEV CO.	U U	
3-2712-28	2	do.	8.00	20.00	C	4	1972	MAKAHA SURF DEV	Z T	3-2712-30 TO 31.
3-2712-30Z	2	WAIANAЕ-DIKE	34.00	164.00	C	12	1975	HONOLULU BMS	P W	
3-2712-31	2	do.	51.00	182.00	C	12	1976	do.	P W	
3-2808-01	5	WAIANAЕ-DIKE	437.00	535.00	C	182.00	1956	US NAVY	P W	USGS NETWORK WELL.
3-2808-02	5	do.	1500.00	-----	-	-----	1934	do.	P W	LUALUALEI TUNNEL.
3-2809-01	2	WAIANAЕ-DIKE	353.00	400.00	C	51.00	1941	HONOLULU BMS	U O	
3-2809-02	2	do.	681.00	365.00	C	10.00	1942	do.	U O	
3-2809-03	2	do.	664.00	400.00	C	53.00	1942	do.	Z O	
3-2809-04	2	do.	664.00	258.00	O	-----	1942	do.	- Z	ABANDONED MAR 1942.
3-2809-05	2	do.	303.00	335.00	C	301.00	1940	MOANALOА DAIRY	S W	
3-2809-06	2	do.	418.00	-----	-	-----	1950	HONOLULU BMS	P W	USGS NETWORK WELL/WAIANAЕ TUNNEL.
3-2810-01	2	WAIANAЕ-DIKE	293.00	355.00	C	300.00	1945	L CULLEN	H W	
3-2810-02	2	do.	413.66	670.00	C	440.00	1980	STATE DOMALD	U U	
3-2811-01	2	WAIANAЕ-DIKE	300.00	350.00	C	16.00	1961	CAPITAL INV CO.	U T	
3-2811-02	2	do.	378.00	528.00	C	428.00	1968	MAKAHA VLLY INC.	P W	
3-2812-01	2	WAIANAЕ-DIKE	140.00	150.00	-	-----	1938	HONOLULU BMS	P W	FORMER USGS NETWORK WELL/SHAFT 1.
3-2812-02	2	do.	20.00	71.00	C	63.00	1952	R ONZUKA	U U	
3-2813-01	2	WAIANAЕ-DIKE	10.00	20.00	O	-----	1962	USGS	- Z	ABANDONED AUG 1962.
3-2813-02	2	do.	15.00	40.00	O	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-2908-01	5	WAIANAЕ-DIKE	1425.00	-----	-	-----	1935	WAIANAЕ DEV CO.	I W	WAIANAЕ TUNNEL 1.
3-2908-02	5	do.	1426.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 2.
3-2908-03	5	do.	1525.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 6.
3-2908-04	5	do.	1485.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 6A.
3-2908-05	5	do.	1409.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 7.
3-2908-06	5	do.	1385.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 8.
3-2908-07	5	do.	1440.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 9.
3-2908-08	5	do.	1764.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 11.
3-2908-09	5	do.	1709.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 14.
3-2908-10	5	do.	1460.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 15.
3-2908-11	5	do.	1515.00	-----	-	-----	1935	do.	I W	WAIANAЕ TUNNEL 19.

Table 9. General information on the wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	GROUND-WATER BODY		ALT. (ft)	WELL DEPTH (ft)		CASING DEPTH (ft)		DIA. (in.)	YEAR COMP	OWNER	U S	REMARKS
	MAP NO.	WATER BODY		DEPTH C	DEPTH O	DEPTH (ft)						
3-2909-01	2	WAIANAE-DIKE	1075.00	-----	-	-----	-----	-----	1935	WAIANAE DEV CO.	I W	WAIANAE TUNNEL 16.
3-2909-02	2	do.	1152.00	980.00	C	429.00	13	1981	1981	HONOLULU BMS	P W	
3-2911-01	2	WAIANAE-DIKE	796.00	-----	-	-----	-----	-----	1940	WAIANAE DEV CO.	P W	MAKAHA TUNNEL 11.
3-2911-02	2	do.	796.00	-----	-	-----	-----	-----	1935	do.	I W	USGS NETWORK WELL/GLOVER TUNNEL.
3-2911-03	2	do.	780.00	-----	-	-----	-----	-----	1935	do.	I W	MAKAHA TUNNEL 2.
3-2911-04	2	do.	810.00	-----	-	-----	-----	-----	1935	do.	I W	MAKAHA TUNNEL 3.
3-2912-01	2	WAIANAE-DIKE	491.00	640.00	C	441.00	12	1976	1976	HONOLULU BMS	P W	
3-2913-01	2	WAIANAE-DIKE	10.00	10.00	0	-----	-----	-----	1962	USGS	- Z	ABANDONED AUG 1962.
3-2913-02	2	do.	20.00	69.00	0	-----	-----	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-3009-01	1	WAIANAE-DIKE	2100.00	-----	-	-----	-----	-----	1935	WAIANAE DEV CO.	I W	MAKAHA TUNNEL 10.
3-3010-01	1	WAIANAE-DIKE	979.60	491.80	C	20.00	3	1940	1940	WAIANAE DEV CO.	U U	
3-3010-02	1	do.	970.00	464.00	C	24.00	4	1940	1940	do.	U U	
3-3010-03	1	do.	967.00	231.00	C	30.00	6	1940	1940	do.	U U	
3-3010-04	1	do.	981.00	241.00	C	20.00	8	1940	1940	do.	U U	
3-3010-05	1	do.	968.00	395.00	C	30.50	8	1940	1940	do.	U U	
3-3010-06	1	do.	1000.00	-----	-	-----	-----	-----	1935	do.	I W	MAKAHA TUNNEL 4.
3-3010-07	1	do.	1125.00	-----	-	-----	-----	-----	1935	do.	I W	MAKAHA TUNNEL 6.
3-3010-08	1	do.	1175.00	-----	-	-----	-----	-----	1935	do.	I W	MAKAHA TUNNEL 7.
3-3010-09	1	do.	1250.00	-----	-	-----	-----	-----	1935	do.	I W	MAKAHA TUNNEL 8.
3-3010-10	1	do.	1100.00	-----	0	-----	-----	-----	1935	do.	I W	MAKAHA TUNNEL 9.
3-3011-01	1	WAIANAE-DIKE	865.30	311.00	C	35.00	2	1940	1940	WAIANAE DEV CO.	U T	
3-3011-02	1	do.	835.00	-----	-	-----	-----	-----	1935	do.	I W	MAKAHA TUNNEL 3A.
3-3013-01	1	WAIANAE-DIKE	10.00	40.00	0	-----	-----	-----	1962	USGS	- Z	ABANDONED AUG 1962.
3-3013-02	1	do.	8.00	90.00	0	-----	-----	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-3013-03	1	do.	30.00	40.00	0	-----	-----	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-3013-04	1	do.	25.00	40.00	0	-----	-----	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-3013-05	1	do.	20.00	60.00	0	-----	-----	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-3013-06	1	do.	35.00	36.00	0	-----	-----	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-3013-07	1	do.	5.00	40.00	0	-----	-----	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-3013-08	1	do.	5.00	15.00	0	-----	-----	-----	1962	do.	- Z	ABANDONED AUG 1962.
3-3013-09	1	do.	186.00	235.00	C	210.00	8	1973	1973	FIRST HWM BANK	H W	

Table 9. General information on the wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	MAP NO.	GROUND-WATER BODY	ALT. (ft)	WELL DEPTH (ft)	C CASING DEPTH (ft)	DIA. (in.)	YEAR COMP	OWNER	REMARKS		
									U	S	
3-3113-01	1	WAIANA-E-DIKE	20.00	30.00	0	-----	1962	USGS	-	Z	ABANDONED AUG 1962.
3-3213-01	1	WAIANA-E-DIKE	5.00	20.00	0	-----	1962	USGS	-	Z	ABANDONED AUG 1962.
3-3213-02	1	do.	10.00	10.00	0	-----	1962	do.	-	Z	ABANDONED AUG 1962.
3-3213-03	1	do.	10.00	20.00	0	-----	1962	do.	-	Z	ABANDONED AUG 1962.
3-3213-04	1	do.	5.00	20.00	0	-----	1962	do.	-	Z	ABANDONED AUG 1962.
3-3213-05	1	do.	15.00	90.00	0	-----	1962	do.	-	Z	ABANDONED AUG 1962.
3-3213-06	1	do.	25.00	36.00	C	21.00	1965	US AIR FORCE	H	W	USGS NETWORK WELL.
3-3314-01	1	WAIANA-E-DIKE	183.00	264.00	C	206.00	1961	CAN TELE COMM	J	W	
3-3314-02	1	do.	174.00	278.00	C	200.00	1962	do.	J	W	

Table 10. Available data for wells, shafts and tunnels in the Waianae area

WELL NUMBER	F L I E O O S G W I T	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2208-01	X			
3-2307-01	X	MONTHLY (U) 1940-54 QUARTERLY (U) 1955-60 ANNUAL (U) 1961-64, 1966-68	MONTHLY (U) 1940-54 QUARTERLY (U) 1955-60 ANNUAL (U) 1961-64, 1966-68	
3-2308-01	X	1949 176 (U) 1953 300 (U) 1954 289 (U)		
3-2308-02	X	1952 241 (U)	1952 3.70 (U)	
3-2407-01	X			
3-2407-02	X			
3-2408-01	X	1949 1,410 (U)	1950 2.03 (U)	
3-2408-02	X	1950 991 (U) 1951 750 (U) 1952 1,170 (U) 1953 1,340 (U)	1950 2.19 (U)	
3-2408-03	X	1951 1,200 (U) 1953 1,420 (U) 1954 1,410 (U)	1951 2.06 (U)	
3-2408-04	X	1951 1,700 (U)	1951 2.10 (U)	
3-2408-05	X	1957 2,030 (U)	1957 2.06 (U)	
3-2408-06	X			
3-2408-07	X	1962 1,980 (U)		

Table 10. Available data for wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	L I L E O I O S G I W T	F T	CHLORIDE (concentration in ppm) (except as indicated)		WATER LEVEL (in feet above MSL)	PUMPAGE
			1950	1951		
3-2409-01	X	-	117 (U)		1950 2.36 (U)	
3-2409-02	X	-	87 (U)	1957 1,030 (U)	1950 2.30 (U)	
			351 (U)	1959 1,040 (U)		
			958 (U)			
3-2409-03	X	-	291 (U)	1956 892 (U)	1950 2.32 (U)	
			645 (U)	1957 931 (U)		
			616 (U)	1959 966 (U)		
3-2409-04	X	-	230 (U)		1950 2.29 (U)	
3-2409-05	X	-	1,300 (U)	1957 1,520 (U)	1951 1.40 (U)	
			1,450 (U)	1959 1,500 (U)		
			1,460 (U)			
3-2409-06	X	-	1,150 (U)		1951 1.38 (U)	
3-2409-07	X	-	626 (U)	1957 1,190 (U)	1951 2.75 (U)	
			1,150 (U)			
3-2409-08	X	-	159 (U)		1952 2.36 (U)	
3-2409-09	X	-	1,040 (U)	1956 1,450 (U)	1952 2.26 (U)	
			1,410 (U)	1957 1,470 (U)		
			1,460 (U)			
3-2409-10	X	-	340 (U)	1954 641 (U)		
3-2409-11	X	-	505 (U)	1957 996 (U)	1952 1.73 (U)	
			726 (U)	1959 1,260 (U)		
			795 (U)			
3-2409-12	X	-	898 (U)	1957 1,110 (U)		
			550 (U)	1959 1,090 (U)		
3-2409-13	X	-	396 (U)	1957 1,200 (U)	1953 1.50 (U)	
			1,160 (U)	1959 1,180 (U)		
			1,260 (U)			

Table 10. Available data for wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	F L L O S G W T	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2409-14	X	1954 528 (U)	1954 1.80 (U)	
3-2409-15		1954 1,590 (U)	1954 1.75 (U)	
3-2409-16	X	1958 950 (U)		
3-2409-17	X	1955 1,570 (U) 1957 1,690 (U)	1955 1.21 (U) 1957 1.82 (U)	
3-2409-18	X	1955 407 (U)	1955 1.01 (U)	
3-2409-19	X	1955 1,270 (U) 1957 1,000 (U)	1955 1.44 (U) 1957 1.97 (U)	
3-2409-20		1955 1,950 (U)	1955 1.61 (U)	
3-2409-21		1955 410 (U) 1957 870 (U)	1955 1.06 (U)	
3-2409-22	X	1956 717 (U) 1959 1,070 (U)	1956 1.46 (U)	
3-2409-23	X	1956 680 (U)	1956 2.33 (U)	
3-2409-24	X	1957 768 (U)		
3-2410-01	X	1954 2,120 (U)	1954 1.27 (U)	
3-2410-02	X			
3-2508-01	X	1935 239 (U)	1935 11.67 (U)	
3-2508-02		ANNUAL (B) 1936-39 MONTHLY (U) 1973-83	ANNUAL (B) 1936-39 MONTHLY (U) 1972-84	MONTHLY (B) 1936, 1939, 1943, 1956-62, ANNUAL (B) 1940-42, 1944-55.
3-2508-03		1950 434 (U) 1957 514 (U) 1955 800 (U) 1959 539 (U)	1950 2.79 (U)	
3-2508-04	X	1951 723 (U) 1953 762 (U)	1951 2.71 (U)	

Table 10. Available data for wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	L I T T L E O I S G I T	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2508-05	X	1952 1,200 (U) 1954 1,390 (U) 1956 1,380 (U)	1952 2.51 (U)	
3-2508-06	X	1955 1,900 (U) 1956 1,720 (U)	1955 2.31 (U)	
3-2508-07	X	1955 500 (U) 1957 735 (U)	1955 2.67 (U) 1957 3.17 (U)	
3-2508-08	X	1955 581 (U)	1955 2.53 (U)	
3-2509-01	X	1948 1,880 (U)		
3-2509-02	X	1950 85 (U) 1954 267 (U)	1950 2.29 (U)	
3-2509-03	X	1951 50 (U) 1953 640 (U) 1954 534 (U)	1951 2.27 (U)	
3-2509-04	X	1953 239 (U) 1955 379 (U)	1953 2.22 (U)	
3-2509-05	X	1955 66 (U) 1957 539 (U)	1955 1.74 (U)	
3-2509-06	X	1955 363 (U)	1955 1.60 (U)	
3-2510-01	X	1947 1,390 (U) 1954 1,320 (U)	1947 2.19 (U) 1950 2.19 (U) 1954 2.20 (U)	1956 2.28 (U) 1957 2.17 (U)
3-2510-02	X	1950 1,420 (U)	1950 1.75 (U)	
3-2510-03	X	1952 1,800 (U)		
3-2510-04	X			

Table 10. Available data for wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	L O S G W T	F L E S T	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2510-05	X				
3-2607-01	X	X	MONTHLY (N) 1960-61 (U) 1963-65, 1972-83	1976 12.75 (U) WEEKLY (N) 1960-64	MONTHLY (N) 1960-74. ANNUAL (N) 1975-81.
3-2608-01	X		1954 638 (U) 1956 605 (U)		
3-2609-01					
3-2609-02					
3-2609-03	X		1938 527 (U) 1941 520 (U) 1942 925 (U)	1938 3.82 (U) 1953 4.05 (U)	
3-2609-04	X		1943 1,080 (U)	1944 1,530 (U)	
3-2609-05	X		1943 580 (U) 1944 553 (U) 1945 737 (U) 1947 698 (U)	1948 790 (U) 1956 834 (U) 1957 833 (U)	
3-2609-06	X		1943 448 (U) 1944 525 (U) 1945 635 (U) 1947 564 (U) 1959 568 (U)	1954 679 (U) 1956 692 (U) 1957 719 (U) 1959 773 (U)	
3-2609-07	X		1944 1,170 (U) 1945 824 (U)	1957 698 (U)	
3-2609-08	X		1945 690 (U)	1947 859 (U)	
3-2609-09	X		1946 418 (U)		
3-2609-10	X		1946 468 (U) 1948 337 (U)	1953 894 (U) 1956 988 (U)	

Table 10. Available data for wells, shafts and tunnels in the Maianae area--Continued

WELL NUMBER	L I L E O I O S G W T	F T	CHLORIDE (concentration in ppm) (except as indicated)		WATER LEVEL (in feet above MSL)	PUMPAGE
			1946 1948	1953 1954		
3-2609-11	X		756 (U) 506 (U)	605 (U)	1946 4.25 (U)	
3-2609-12	X		305 (U) 497 (U)	485 (U) 498 (U)	1946 2.51 (U)	
3-2609-13	X		418 (U) 409 (U) 443 (U)	460 (U) 528 (U)	1946 2.80 (U) 1954 2.98 (U)	
3-2609-14			962 (U)	925 (U)	1950 3.40 (U)	
3-2609-15	X		421 (U) 440 (U)	490 (U)	1951 4.03 (U)	
3-2609-16	X		1,210 (U)	1,180 (U)	1953 2.88 (U) 1957 2.66 (U) 1956 3.37 (U)	
3-2609-17	X		396 (U)			
3-2609-18	X		2,550 (U)		1955 2.49 (U) 1957 4.31 (U)	
3-2610-01	X		377 (U)	784 (U)	1939 3.29 (U)	
3-2610-02	X		1,030 (U) 883 (U)	216 (U)	1944 2.39 (U) 1957 3.29 (U) 1954 3.45 (U)	
3-2610-03	X		170 (U) 1,140 (U) 543 (U)	420 (U) 367 (U)	1945 3.31 (U)	
3-2610-04			255 (U)	294 (U)		
3-2610-05	X		2,080 (U)		1950 4.30 (U)	
3-2610-06	X		1,080 (U)		1952 2.16 (U) 1954 2.12 (U)	
3-2610-07			754 (U) 1,570 (U)	1,150 (U)		

Table 10. Available data for wells, shafts and tunnels in the Waiānae area--Continued

WELL NUMBER	FILE NO	DATE	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)		PUMPAGE
3-2611-01	X					
3-2611-02	X					
3-2611-03	X					
3-2611-04	X					
3-2709-01	X		1938 106 (U) 1941 474 (U) 1942 171 (U)	1944 873 (U) 1947 528 (U) 1948 758 (U)	1938 4.00 (U)	
3-2709-02			1940 789 (U) 1942 925 (U)	1944 720 (U)	1940 3.95 (U)	
3-2709-03	X		1941 2,230 (U) 1942 1,520 (U)	1944 1,740 (U)	1941 3.95 (U)	
3-2709-04	X		1943 1,010 (U) 1944 1,320 (U) 1948 566 (U)	1950 991 (U) 1953 722 (U) 1956 258 (U)	1943 3.47 (U) 1948 3.73 (U) 1950 3.87 (U)	1953 4.17 (U) 1954 4.25 (U) 1956 4.22 (U)
3-2709-05	X		1944 1,610 (U)	1948 790 (U)	1944 2.88 (U)	
3-2709-06	X		1945 64 (U)		1945 13.56 (U)	
3-2709-07	X		1945 82 (U) 1946 89 (U) 1947 100 (U)	1954 126 (U) 1956 133 (U)	1945 3.23 (U)	
3-2709-08	X		1945 77 (U) 1947 98 (U) 1948 93 (U) 1950 91 (U)	1953 107 (U) 1954 94 (U) 1957 100 (U) 1958 85 (U)	1945 6.19 (U)	1948 4.70 (U)
3-2709-09	X		1945 422 (U) 1947 1,140 (U) 1948 807 (U)	1953 756 (U) 1954 768 (U) 1959 910 (U)	1945 2.94 (U) 1948 3.24 (U) 1953 2.84 (U)	1956 3.69 (U) 1959 3.93 (U)

Table 10. Available data for wells, shafts and tunnels in the Maianae area--Continued

WELL NUMBER	FLUORIDE	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL) ^x	PUMPAGE
3-2709-10	X	1945 200 (U) 1946 364 (U) 1947 512 (U) 1948 464 (U)	1945 3.41 (U) 1948 3.46 (U)	
3-2709-11	X	1945 468 (U)	1945 3.17 (U) 1954 4.01 (U)	1957 3.67 (U)
3-2709-12	X	1945 345 (U) 1947 313 (U)	1945 7.60 (U)	
3-2709-13	X	1949 300 (U) 1956 258 (U)	1949 3.43 (U)	
3-2709-14		1950 317 (U)	1950 9.20 (U)	
3-2709-15	X	1951 204 (U)	1951 11.65 (U)	
3-2709-16	X	1952 3,670 (U)	1952 4.07 (U)	
3-2709-17	X	1953 334 (U) 1954 386 (U)	1953 3.91 (U)	
3-2709-18	X	1953 403 (U)	1953 3.36 (U)	
3-2710-01	X	1945 630 (U)	1945 2.55 (U) 1953 3.77 (U)	1957 3.48 (U)
3-2710-02	X	1958 116 (U)	1958 13.64 (U)	
3-2711-01	X			
3-2711-02	X	1950 889 (U)	1950 1.51 (U)	1960 2.45 (U)
3-2711-03	X			
3-2711-04	X			

Table 10. Available data for wells, shafts and tunnels in the Waiānāe area--Continued

WELL NUMBER	FLUORIDES	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2712-01Z	MONTHLY	1920 1,520 (U) 1921 1,040 (U)	MONTHLY (U) 1927-34 SEE 3-2712-01Z	MONTHLY (P) 1928-39. SEE 3-2712-01Z.
3-2712-02		1920 1,240 (U) 1921 1,080 (U)	do.	Do.
3-2712-03		1921 3,680 (U)	do.	Do.
3-2712-04		1920 290 (U) 1923 933 (U) 1921 197 (U) 1931 1,260 (U)	do.	Do.
3-2712-05		1920 334 (U) 1923 844 (U) 1921 240 (U) 1931 1,150 (U)	do.	Do.
3-2712-06		1920 520 (U) 1923 1,340 (U) 1921 350 (U) 1931 1,970 (U)	do.	Do.
3-2712-07		1920 320 (U) 1923 892 (U) 1921 254 (U) 1931 1,130 (U)	do.	Do.
3-2712-08		1920 1,590 (U) 1923 2,720 (U) 1921 1,190 (U) 1931 3,310 (U)	do.	Do.
3-2712-09		1921 657 (U) 1931 3,620 (U) 1923 2,950 (U)	do.	Do.
3-2712-10		1920 6,400 (U) 1921 5,720 (U)	do.	Do.
3-2712-11		1920 8,320 (U) 1921 8,250 (U)	do.	Do.
3-2712-12		1920 10,200 (U) 1921 8,620 (U)	do.	Do.
3-2712-13		1920 14,100 (U) 1921 14,100 (U)	do.	Do.
3-2712-14		1920 2,240 (U) 1923 2,150 (U) 1921 1,840 (U) 1931 2,820 (U)	do.	Do.
3-2712-15		1920 4,190 (U) 1923 6,080 (U) 1921 2,280 (U)	do.	Do.

Table 10. Available data for wells, shafts and tunnels in the Maianae area--Continued

WELL NUMBER	F L L O I S G W T	CHLORIDE (concentration in ppm) (except as indicated)		WATER LEVEL (in feet above MSL)	PUMPAGE
		1920	1921		
3-2712-16		13,000 (U)	9,900 (U)	SEE 3-2712-01Z	SEE 3-2712-01Z.
3-2712-17		14,000 (U)	9,150 (U)	do.	Do.
3-2712-18		444 (U) 437 (U)	1,160 (U) 1,260 (U)	do.	Do.
3-2712-19		1,190 (U) 1,030 (U)	1,400 (U) 1,860 (U)	do.	Do.
3-2712-20		3,450 (U) 973 (U)	2,090 (U) 1,790 (U)	do.	Do.
3-2712-21		10,300 (U)	4,330 (U)	do.	Do.
3-2712-22		96 (U) 110 (U)	162 (U)	do.	Do.
3-2712-23		198 (U) 240 (U)	275 (U)	do.	Do.
3-2712-24		103 (U) 206 (U)	275 (U)	do.	Do.
3-2712-25		122 (U) 227 (U)	266 (U)	do.	Do.
3-2712-26		119 (U) 267 (U)	403 (U)	do.	Do.
3-2712-27		129 (U) 213 (U)	303 (U)	do.	Do.
3-2712-28	X				
3-2712-30Z					MONTHLY (B) 1978-84.
3-2712-30	X	1976	82 (U)	1976 11.95 (U)	SEE 3-2712-30Z.
3-2712-31	X				Do.

Table 10. Available data for wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	FILED LOGS	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2808-01	X	MONTHLY (U) 1972-84	1957 441.30 (U) MONTHLY (U) 1973-84	ANNUAL (N) 1959-62.
3-2808-02		1964 29 (U) 1973 47 (U) 1972 28 (U) MONTHLY (N) 1952-61		ANNUAL (N) 1943-51. MONTHLY (N) 1952-84.
3-2809-01	X	1941 30 (U) 1942 29 (U)	1941 218.10 (U) 1945 216.05 (U) 1942 216.09 (U)	
3-2809-02	X	1942 61 (U)	1942 621.74 (U) 1945 632.74 (U) CONTINUOUS (U) 1942	
3-2809-03	X			
3-2809-04	X		1942 556.67 (U)	
3-2809-05	X	1945 114 (U) 1948 129 (U) 1947 140 (U)	1945 81.83 (U) 1947 77.64 (U) 1946 83.64 (U)	
3-2809-06		MONTHLY (U) 1972-83		MONTHLY (P) 1948-60. (B) 1952-84.
3-2810-01	X	1945 35 (U) 1956 33 (U) 1948 23 (U) 1957 33 (U) 1953 33 (U) 1958 30 (U) 1954 34 (U)	1945 35.58 (U) 1953 24.93 (U) 1946 34.08 (U)	
3-2810-02	X	1980 36 (U)		
3-2811-01	X			
3-2811-02	X			MONTHLY (B) 1968-84.
3-2812-01		MONTHLY (U) 1936-39, 1972-83		MONTHLY (B) 1936-39, 1956-84. ANNUAL (B) 1940-47, 1953-55.
3-2812-02	X	1952 292 (U)		

Table 10. Available data for wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	F I T		CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
	L I E	O I S			
3-2813-01	X				
3-2813-02	X				
3-2908-01					MONTHLY (P) 1932-51. (B) 1974-84.
3-2908-02					MONTHLY (P) 1932-50. (B) 1974-84.
3-2908-03					MONTHLY (P) 1932-68. (B) 1974-84.
3-2908-04					MONTHLY (P) 1932-68. (B) 1974-84.
3-2908-05					MONTHLY (P) 1932-68. (B) 1974-84.
3-2908-06					MONTHLY (P) 1932-51. (B) 1974-84.
3-2908-07					MONTHLY (P) 1932-68. (B) 1974-84.
3-2908-08					MONTHLY (P) 1932-65. (B) 1974-84.
3-2908-09					MONTHLY (P) 1933-68. (B) 1974-84.
3-2908-10					MONTHLY (P) 1932-64. (B) 1974-84.
3-2908-11					MONTHLY (P) 1933-68. (B) 1974-84.
3-2909-01					MONTHLY (P) 1947-56. (B) 1974-84.

Table 10. Available data for wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	FILED OBSERVATIONS	CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
3-2909-02	X			
3-2911-01	X			
3-2911-02		MONTHLY (U) 1972-84		MONTHLY (P) 1948-66. (B) 1961-84.
3-2911-03				
3-2911-04				
3-2912-01	X	1976 92 (U)		MONTHLY (B) 1978-84.
3-2913-01	X			
3-2913-02	X			
3-3009-01				
3-3010-01	X	1940 30 (U)	1940 997.00 (U)	
3-3010-02	X	1940 29 (U)	1940 992.69 (U)	
3-3010-03	X	1940 30 (U) 1959 23 (U)	1940 986.73 (U)	
3-3010-04	X	1940 28 (U) 1942 29 (U)	1940 972.36 (U) 1942 968.88 (U)	
3-3010-05	X	1940 29 (U) 1942 31 (U)		
3-3010-06				
3-3010-07				
3-3010-08				
3-3010-09				
3-3010-10				

Table 10. Available data for wells, shafts and tunnels in the Waianae area--Continued

WELL NUMBER	F T		CHLORIDE (concentration in ppm) (except as indicated)	WATER LEVEL (in feet above MSL)	PUMPAGE
	L I L E	O I O S			
3-3011-01	X				
3-3011-02					
3-3013-01	X				
3-3013-02	X				
3-3013-03	X				
3-3013-04	X				
3-3013-05	X				
3-3013-06	X				
3-3013-07	X				
3-3013-08	X				
3-3013-09	X	X	1973 1,060 (D)	1973 184.00 (D)	
3-3113-01	X				
3-3213-01	X				
3-3213-02	X				
3-3213-03	X				
3-3213-04	X				
3-3213-05	X				
3-3213-06	X		1965 228 (P) MONTHLY (U) 1972-84	176 (U) MONTHLY (U) 1972-84	
3-3314-01	X	X	1961 280 (D)	1961 5.03 (D)	
3-3314-02	X	X	1962 335 (D)	1962 4.60 (D)	

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- Stearns, H. T., 1940, Supplement to geology and ground-water resources of the island of Oahu, Hawaii: Hawaii Division of Hydrography Bulletin 5, 164 p.
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