Central Coastal Regional Water
Quality Control Board (No. 3)
1108 Garden Street
San Luis Obispo, California 93401

Attention: Mr. Kenneth R. Jones
Executive Officer

Los Angeles, California 90055

October 6, 1969

282.31

Water Quality Conditions
Coastal Region, San Luis
Obispo County

This memorandum report describes water quality conditions in the Coastal Region of San Luis Obispo County. Also, the report recommends preliminary water quality objectives and a ground water monitoring program.

The report culminates a preliminary-level study that was initiated at your request and was carried on under the statutory authority of Section 13052 (c) of the State Water Code, which directs that technical assistance be provided to regional water quality boards by other state agencies.

The cooperation of numerous individuals and agencies, public and private, is gratefully acknowledged. In particular, however, we wish to express our thanks to the San Luis Obispo County Flood Control and Water Conservation District, California State Polytechnic College, San Luis Obispo County Development Association, and Pacific Gas and Electric Company.

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Attachment

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES
Southern District

--oOo--

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1. INTRODUCTION

As the result of rapid population growth, urbanization, and the development of agriculture, industry, and commerce, the coastal region of San Luis Obispo County has experienced -- and is still experiencing -- an ever-increasing need for water. This is especially true of the southern coastal region.

Along with this expansion, the volume of waste discharges have increased, and the quality of the region's water has been affected correspondingly. To protect and preserve the quality of surface and ground water for optimum beneficial uses, it is essential to assess the region's water supply conditions, the effects of waste discharges on those water resources, and to fix workable water quality objectives.

OBJECTIVE AND CONDUCT OF THE INVESTIGATION

The objective of this investigation was to develop information to aid the Board in establishing water quality policies that would enable it to protect the water resources of the study area.

The specific activities undertaken to meet the objective were determination of the: (1) occurrence, movement, and use of surface and ground water, with particular reference to impairment by waste discharges; (2) the quality of the water supply; (3) the quality of sewage treatment plant waste discharges and industrial waste discharges and their effects on the water supply; (4) mineral water quality objectives to protect the beneficial use of surface and ground water; and (5) suitable surface and ground water sampling points for monitoring water quality and the effects of waste discharges.

In conducting the investigation, described in this report, the Department evaluated data in its files, as well as data from other organizations and outside authorities (Appendix A). Hydrologic data were gathered, compiled, and evaluated through 1968.*

In 1964, field work was initiated and coordinated with the general statewide surveillance program; it consisted of locating wells, sampling them, and measuring the depth to water in them.

Land and water use, waste water quantity and quality, and hydrologic and water quality data were also among the aspects of the problem that were studied.

*This is a cooperative program between the San Luis Obispo County Flood Control and Water Conservation District and the Department.

This report includes water quality information developed for a cooperative water resources management study which was commenced in 1963 by the San Luis Obispo County Flood Control and Water Conservation District (SLOCFCWCD) and the Department of Water Resources (DWR).

AREA OF THE INVESTIGATION

The study area encompasses the coastal region of San Luis Obispo County southwest of the Santa Lucia Mountains (Figure 1 and Plate 1).**

Because of the size and complexity of the study area and the need for localized information, the area has been subdivided. The subdivision was based on the office report published by the Department, "Names and Areal Code Numbers of Hydrologic Areas in the Southern District", April 1964. The information in the publication is the basis for compiling, filing, and retrieving geologic and hydrologic data with electronic data-processing machines in the Department.

For this investigation, it was found convenient to apply the names and areal code numbers in that publication to three hydrologic subunits in the study area -- Cambria, San Luis Obispo, and Arroyo Grande -- which, in turn, were subdivided into subareas (Figure 1). Each subdivision in Figure 1 can be divided still further into a nonwater-bearing hill and mountain area and a ground-water-bearing valley area. In this report, the ground-water-bearing valley area is termed "ground water basin", or simply "basin", in order to distinguish it from the entire subdivision, which includes parts of the surrounding nonwater-bearing hill and mountain area.

The region's climate is mild. Rainfall is virtually nonexistent during the warm summers, although the prevailing northwest winds frequently bring in ocean moisture, mainly in the form of fogs. Winters are short, wet, and cool. The Santa Lucia Mountains cause major storms from the Aleutian Islands to deposit heavy rainfall along the coast (Table 1).

In 1960, over 71 percent of the County's population resided in a narrow strip along the ocean (Table 2). That area, especially from Arroyo Grande to Morro Bay, has experienced

**The section of the County within the Santa Maria River is not in this study area; however, information about it can be found in two other DWR reports: "Water Quality Objectives, Santa Maria River Valley", December 1964, and "Sea-Water Intrusion-Pismo-Guadalupe Area" (under preparation).

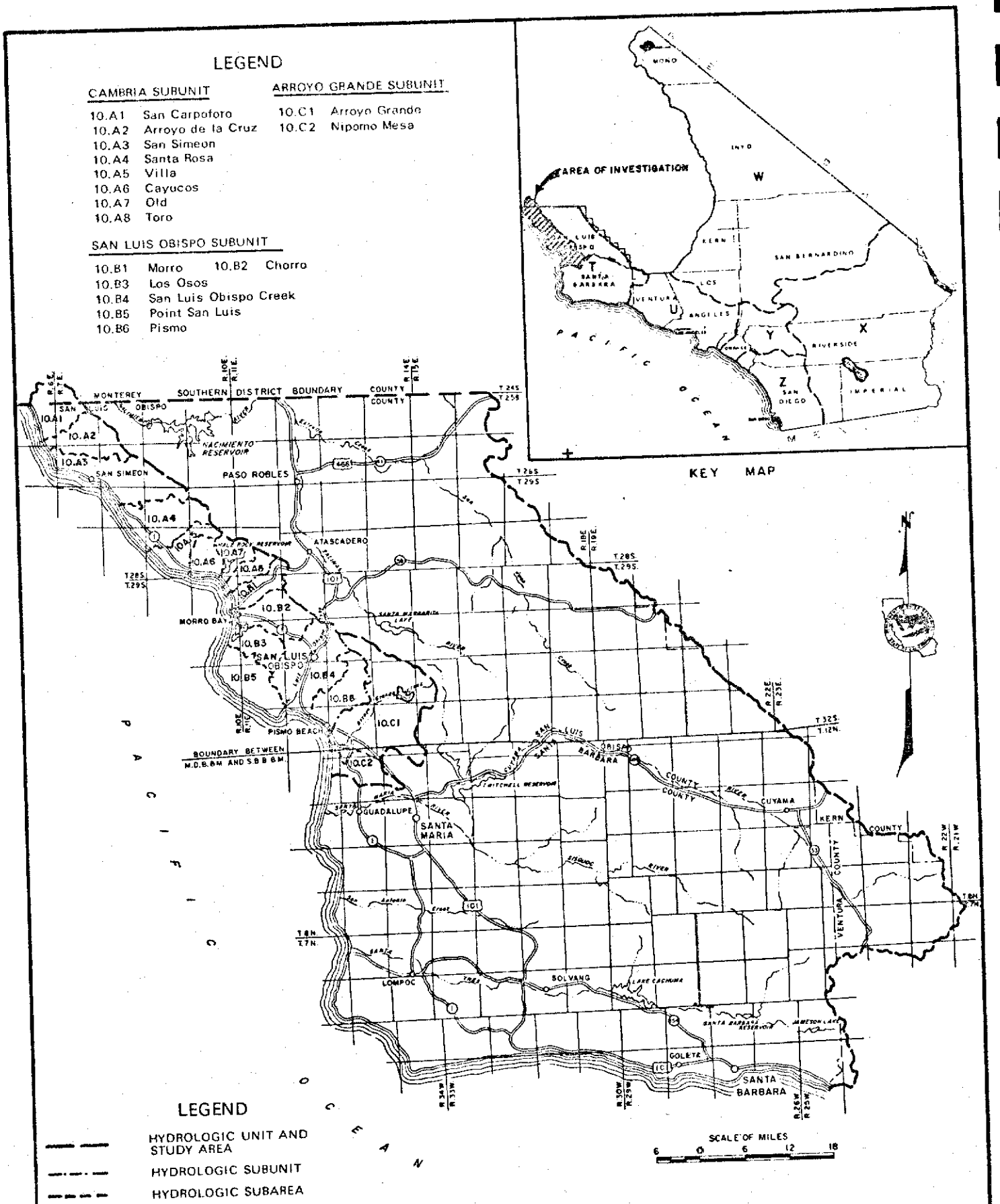

Figure 1 - LOCATION MAP

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1969

TABLE 1

SUMMARY OF CLIMATOLOGICAL DATA FOR SELECTED STATIONS IN COASTAL SAN LUIS OBISPO COUNTY

Station*	Elevation in feet	Recorded temperature in degrees F**			Precipitation in inches***			Period of record
		Maximum	Minimum	Mean	Maximum	Minimum	1935–36 to 1966–67 average	
Point Piedras Blancas	57	85	29	54.0	40.21	12.03	19.57	1940–41 to 1966–67
Cambria	150	(---not available---)			38.38	9.53	18.90	1937–38 to 1966–67
California State Polytechnic College	300	110	20	58.8	42.92	7.20	21.58	1869–70 to 1966–67
Pismo Beach.	80	104	24	57.5	31.29	9.77	16.49	1949–50 to 1966–67

*See Location on Plate 2
**Record to 1961
***Records are from October 1 to September 30;
Data was obtained from San Luis Obispo County Flood Control and Water Conservation District.

TABLE 2

POPULATION OF COASTAL SAN LUIS OBISPO COUNTY

City or area	April 1, 1960 Census*	Jan. 1, 1965 Estimate**	1960–65 Estimated percentage increase**
Morro Bay	3,692	6,960	88.5
Baywood–Los Osos	1,480	2,670	80.4
Cambria	1,260	2,010	59.5
Cayucos	1,400	1,700	21.4
San Luis Obispo (City)	20,437	26,200	28.2
San Luis Obispo (Rural)	4,276	7,378	72.5
Pismo Beach–Shell Beach	3,582	4,160	16.1
Avila	550	620	12.7
Arroyo Grande	3,291	6,870	108.8
Grover City	5,210	6,300	20.9
Oceano	1,317	1,664	26.3
Nipomo	2,430	3,530	45.3
Other Coastal Rural Areas	8,902	6,361	—
Coastal Area Sub Total	57,827	76,423	32.2
TOTAL FOR COUNTY	81,044	102,486	26.5

*U.S. Department of Commerce, Bureau of the Census and the San Luis Obispo County Planning Department.

**Economic Research Division Security First National Bank. "Ventura, Santa Barbara and San Luis Obispo Counties." July 1966.

a much greater growth than the interior of the County. In fact, it represents one of the largest percentage increases in the entire State during 1960-65.

The largest community in this part of the County is the City of San Luis Obispo, with a population of 27,100 as of March 1969. The County's population was about 105,000, according to the July 1968 census.

Urbanization in the Cambria, San Luis Obispo, and Arroyo Grande hydrologic subunits is reflected by the increase in land use and applied water between 1959 and 1968 -- the years of land use surveys by the Department (Tables 3 and 4). Between 1959 and 1968, Cambria's urban-suburban land use has increased by 18 percent, San Luis Obispo's by 32 percent, and Arroyo Grande's by 50 percent; and applied urban-suburban water use has increased by 23, 36, and 39 percent, respectively. During the same period, land use and applied water for irrigated agriculture has also risen, though not as sharply as urban-suburban use (Tables 3 and 4). Within the three subunits, land use for irrigated agriculture has increased 7 percent and applied water from 1 to 5 percent.

In the northern coastal area, unit rates of irrigation for most crops are small due to the heavy rainfall in winter and frequent damp fogs in summer. In 1959, for example, about half the crops in the Cambria hydrologic subunit were not irrigated at all.

Only about 1 percent of the Cambria subunit was serviced with water for irrigation or urban-suburban uses. In the San Luis Obispo and Arroyo Grande hydrologic subunits, on the other hand, about 7 percent of the area was serviced. The percentage is lower in the Cambria hydrologic subunit because more of it lies in mountainous areas unsuited for extensive cultivation.

2. GEOHYDROLOGY

Water-bearing sediments are plentiful in the Arroyo Grande hydrologic subunit and yield large quantities of ground water. However, in the northern parts of the study area -- the Cambria and San Luis Obispo hydrologic subunits -- water-bearing sediments are sparse. They provide little subsurface storage for the large volume of surface runoff during heavy rainfalls, much of which consequently discharges to the ocean.

TABLE 3

LAND USE, SAN LUIS OBISPO HYDROLOGIC UNIT

In acres

Category	Cambria Subunit (T–10.AO)		San Luis Obispo Subunit (T–10.BO)		Arroyo Grande Subunit (T–10.CI)	
	1959	1968	1959	1968	1959	1968
Net Urban-Suburban	730	860	3,970	5,240	1,770	2,660
Net irrigated agriculture	1,450	1,550	4,970	5,320	3,690	3,970

TABLE 4

APPLIED WATER, SAN LUIS OBISPO HYDROLOGIC UNIT

In acre-feet

Category	Cambria Subunit (T–10.AO)		San Luis Obispo Subunit (T–10.BO)		Arroyo Grande Subunit (T–10.CI)	
	1959	1968	1959	1968	1959	1968
Urban – Suburban	1,140	1,400	7,020	9,550	3,560	4,950
Irrigated agriculture	3,150	3,310	11,840	12,460	9,930	10,770

(The 1959 statistics were obtained, in part, from Appendix B of DWR Bulletin No. 103, "San Luis Obispo and Santa Barbara Counties Land and Water Use Survey, 1959". The 1968 figures were obtained, in part, from data compiled for the "San Luis Obispo and Santa Barbara Counties Land and Water Use Report", April 11, 1969.)

GEOLOGY

Records indicate that the yields of wells in the study area range from a few gallons per minute (gpm) to about 2,500 gpm. South of Morro Bay, many wells yield water from more than one geologic unit; but north of it, wells usually yield water only from alluvium (Plate 1 and Table 5). The Point San Luis hydrologic subarea is not included in Table 5 because it consists mostly of nonwater-bearing sediments; Department records show only one well there.

Water-bearing Formations

Water-bearing sediments in the study area, from the youngest to the oldest, comprise Recent sand dunes, alluvium, older sand dunes, terrace deposits, Paso Robles and Pismo formations, and Careaga sand. These encompass all the permeable deposits capable of storing water (Plate 1). In some cases, they lie above the regional water table and do not produce water.

Recent Sand Dunes generally lie above the fresh water table, or they may contain sea water, and therefore yield no usable fresh water. Recent sand dune deposits consist of beach sands, which usually are in contact with the ocean.

A large baymouth bar, composed of Recent sand dune deposits, separates Morro Bay from the Pacific Ocean. Such deposits are also found along the coast between Arroyo Grande Creek and the Santa Maria River, extending inland for about 3 miles.

Recent and Upper Pleistocene Alluvium is the principal water-bearing unit in the study area north of Morro Bay. Wells yield up to about 700 gpm from alluvium along many north coastal creek channels and up to 1,700 gpm in the alluvium of Arroyo Grande Creek, where estimated permeability ranges from 2,300 to 3,000 gallons per day per square foot (gpd/sq. ft.). Alluvium consists of sands, gravels, and clays deposited along the major and minor streams. It is usually less than 50 feet thick, although it is about 130 feet thick along Arroyo Grande Creek, near the coast.[2,3/*]

Older Sand Dunes of upper Pleistocene age have a sufficiently high percolation rate to absorb much of the rain falling on them. Ground water extracted from older sand dunes -- or more often from sediments immediately below them -- supplies most of the water for the communities of Morro Bay and Arroyo

*These numbers correspond to the similarly numbered references in Appendix A.

TABLE 5

SUMMARY OF GROUND WATER BASIN CHARACTERISTICS*

Hydrologic subunit	Cambria								San Luis Obispo					Arroyo Grande	
Hydrologic subarea's ground water basin	San Carpoforo	Arroyo de la Cruz	San Simeon	Santa Rosa	Villa	Cayucos	Old	Toro	Morro	Chorro	Los Osos	San Luis Obispo	Pismo	Arroyo Grande	Nipomo Mesa
Total surface area, in acres	200	750	620	2,360	980	980	750	490	1,270	1,750	7,920	9,680	5,140	12,460	16,020
Thickness, in feet															
Alluvium	0–60+	0–130+	0–100?	0–130	0–130+	0–120?	0–135	0–80?	0–130	0–80	0–100?	0–100?	0–100?	0–130†	—
Old sand dunes	—	—	—	—	—	—	—	—	—	—	0–150	—	—	0–40†	0–150†
Paso Robles fm.	—	—	—	—	—	—	—	—	—	—	0–?	0–160	0–160	0–480†	0–900
Depth of wells, in feet															
Maximum	—	127	80	130	135	—	162	—	90	150	212	210	110	252	810
Est. average	—	100	50	80	80	—	70	—	80	70	60	90	60	100	400
1966 depth of water, in feet†															
Maximum	—	—	13	35	20	—	30	9	59	47	118	39	79	110	271
Minimum*	—	—	10	18	19	—	13	8	8	13	16	2	16	4	265
Yield of irrigation wells, in gpm															
Maximum	—	—	170	708	—	166	335	500	442	700	396	600	500†	2,500†	1,500
Est. average	—	—	100	400	—	100	200	—	300	200	200	300	—	360	100
Specific capacity, in gpm/foot of drawdown															
Maximum	—	—	—	50	—	14	24	—	73	23	35	20	—	500	29
Est. average	—	—	—	15	—	10	15	—	30	15	15	15	—	40	5
Est. average specific yield, in %	18	18	18	17	15	15	15	15	12	12	20	13	12	15	18
Est. total storage capacity, in acre-feet	1,800	6,600	4,000	24,700	6,500	4,000	4,600	2,900	7,600	9,600	95,000+	67,000	30,000	700,000†	1,000,000†
Est. usable ground water storage above sea level, in acre-feet	600	2,200	1,300	6,000	2,200	1,300	1,500	1,000	2,000	2,500	9,000	22,000	10,000	40,000	—
Occurrence of ground water	Unconfined	Unconfined	Unconfined	Unconfined	Unconfined	Unconfined	Unconfined	Unconfined	Unconfined	Unconfined	Confined and uncon.	Confined and uncon.	Confined and uncon.†	Confined and uncon.	Confined and uncon.†
Max. est. safe yearly yield, in acre-feet	0	430	320	630	1,030	630	330	530	1,700	1,700	1,000	2,250	2,000	9,500	2,500
Est. max sea-water intrusion, in miles from ocean	2	3	2	3	2.5	2	1.2	1	1.3	1.5	—	1	> .3 ⊕	> .3 ⊕	0†

*California Department of Water Resources, Bulletin No. 18, "San Luis Obispo County Investigation", Volumes I and II. May 1958.

†Figure revised, 1968, by California DWR.

⊕Figure revised, 1968, by California DWR, natural intrusion phenomena unrelated to pumping.

Grande. Wells in these dunes do not yield much water, because of the inflow of sand into the wells during high pumping. Older dunes occur a few miles inland on valley lowlands, along Chorro, Los Osos, and Arroyo Grande Creeks and the Santa Maria River Plain.

Terrace Deposits of upper Pleistocene age usually lie above the regional water table. As a rule, they transmit water to underlying sediments or directly to the ocean. When saturated, however, they readily yield water to wells.

There are two types of terrace deposits: those adjacent and parallel to the coast, which are marine alluvial terraces, representing ancient uplifted beaches; and those near Laguna Lake, which are continental in origin. Both types, however, are composed of sands, gravels, and clays; their thicknesses range up to 50 feet. Those adjacent to the coast are often the only local source of water.

Paso Robles Formation of lower Pleistocene and upper Pliocene age ranks second only to alluvium as a ground water producer. Pump tests indicate that its permeability is between 500 and 1,700 gpd/sq. ft.[2,13] It consists chiefly of sand, gravel, silt, and clay.

Although this formation surfaces in two comparatively small areas -- just southeast of the City of San Luis Obispo and at Arroyo Grande -- it underlies large parts of alluvium and older sand dunes in the Nipomo Mesa, Arroyo Grande, San Luis Obispo, Pismo, and Los Osos hydrologic subareas, thus forming a major aquifer.

Careaga Sand of Pliocene age is predominantly marine in origin. Its maximum thickness is about 700 feet, but its permeability is usually low -- about 70 gpd/sq. ft. It does not surface within the study area, but underlies the Paso Robles formation in the Arroyo Grande hydrologic subunit, where it forms a minor aquifer.[13]

Pismo Formation of lower Pliocene or upper Miocene age is represented by an upper member of this formation. It outcrops northeast of U. S. Highway 101, between Pismo and Arroyo Grande Creeks, extending inland as far as the headwaters of Pismo Creek. A recent study reveals that it is locally water-bearing.[13] Its water-bearing portion is composed of sand and is probably similar to the Careaga sand. Its thickness ranges from about 70 to 600 feet and it has permeabilities ranging possibly over 100 gpd/sq. ft.[13]

Nonwater-bearing Formations

These rocks sometimes yield small quantities of fresh water to wells and springs. For the purpose of this study, the rocks are classified as nonwater-bearing when they yield less than 25 gpm to wells. They consist of Cretaceous and Jurassic sedimentary and igneous rocks, Miocene Monterey and Vaqueros (marine) formations, and associated volcanics.

HYDROLOGY

In the study area, ground water is replenished principally by percolation of streamflow and precipitation, although excess irrigation water and subsurface inflow from nonwater-bearing areas provide some replenishment. Ground water is diminished by subsurface outflow to the ocean, pumping, and evapotranspiration. Impoundment of surface water in some areas may reduce the amount of surface flow available for ground water recharge.

Besides ground water, the City of San Luis Obispo's current water requirements are being met by surface water from Whale Rock Reservoir near Cayucos, and Salinas Reservoir on the Salinas River. The ground water of Pismo, Arroyo Grande, and Nipomo Mesa hydrologic subareas is augmented by water conserved in and released from the recently completed Lopez Reservoir, at the confluence of Arroyo Grande and Lopez Canyon Creeks (Plate 2).

Precipitation

Plate 2 shows an isohyetal map based on the 1935-36 through 1966-67 average seasonal precipitation data compiled by SLOCFCWCD. Rainfall is highest on the western slopes of the Santa Lucia Mountains. It increases from the coast eastward as ground elevations increase, ranging from about 14 inches along the south coast to about 50 inches, near Pine Mountain Peak.

At California State Polytechnic College, precipitation data records cover 92 years. They disclose that about 76 percent of the yearly rainfall occurs from December through March and less than 2 percent from June through September. There have been as many as 39 climatological stations in the study area and data from a few selected stations are in Table 1.

Surface Water

All creeks within the study area flow heavily during the wet winters and some are dry during the summer. Seasonal and

monthly runoff varies with precipitation; about 90 percent of the north coastal streamflow occurs between November and May (Plate 2 and Table 6).

On the other hand, the records of the gaging station of Arroyo Grande Creek at Arroyo Grande indicate flow almost all year, although the records of a gaging station farther upstream indicate only seasonal flow. Chorro Creek above Chorro Reservoir flows all year. Toro Creek's flow has not been recorded continuously, but for the 1953 calendar year it was 2,750 acre-feet. In terms of runoff per square mile of drainage area, Arroyo de la Cruz is one of the most productive streams in all San Luis Obispo County. Runoff at the station near San Simeon averaged about 39,300 acre-feet during 1950-66, amounting to over 900 acre-feet per square mile.

Runoff per square mile of drainage in the extreme north of the county is relatively high due to heavy precipitation. Much of this runoff is now discharging to the ocean.

Runoff from Old Creek and its tributary, Cottontail Creek, now enters Whale Rock Reservoir (Plate 3A). Surface water stored in Whale Rock Reservoir supplies additional water for the City of San Luis Obispo -- 1,100 acre-feet in 1966-67 -- as well as the California State Polytechnic College. Its capacity is about 40,000 acre-feet: on September 1, 1968, it stored 17,568 acre-feet; on March 1, 1969, 32,232 acre-feet. Since completion its average annual yield has been about 4,000 acre-feet.

Chorro Reservoir, with a capacity of about 80 acre-feet, is fed by Chorro Creek, plus the water pumped from Whale Rock Reservoir, and serves the California Men's Colony and Cuesta College (Plate 3B).

Runoff from Lopez and upper Arroyo Grande Creeks is controlled by Lopez Reservoir, which was completed in January 1969 by SLOCFCWCD (Plate 2). It has a capacity of about 52,000 acre-feet and an estimated safe yield of about 6,230 acre-feet per year. The Reservoir was filled to capacity from runoff resulting from the especially high precipitation that occurred in January and February 1969.

There are lakes and ponds in the Arroyo Grande hydrologic subunit (Plate 3B). These were formed primarily by sand dunes deposited along the coast, preventing the seaward movement of surface water. The surface areas of these lakes and ponds fluctuate seasonally; they range from about 40 acres to a fraction of an acre and are replenished by precipitation, surface runoff, and/or irrigation return water or ground water seepage.

TABLE 6

AVAILABLE GAGED RUNOFF -- COASTAL SAN LUIS OBISPO COUNTY

In acre-feet

Water year	Arroyo de la Cruz Creek near San Simeon [a]	Santa Rosa Creek near Cambria [a]	Santa Rosa Creek at Cambria [b]	Chorro Creek above Reservoir [c]	San Bernardo Creek [d]	Lopez Creek at Nielsen's Ranch [d]	Arroyo Grande Creek above Phoenix Creek [d]	Arroyo Grande Creek near Arroyo Grande [a]	Arroyo Grande Creek below Santa Manuela School [b]	Arroyo Grande Creek at Arroyo Grande [a]
1939–40										9,580 ±
1940–41										65,560
1941–42										21,460
1942–43										45,700
1943–44	No Record									15,520
1944–45										12,040
1945–46			No Record						No Record	5,500
1946–47										3,490
1947–48		No Record		No Record						1,790
1948–49										2,690
1949–50					No Record					4,960
1950–51	20,280					No Record		No Record		3,890
1951–52	78,350						No Record			36,760
1952–53	41,250		18,590±						1,750	9,900
1953–54	28,730		11,270						1,370	7,120
1954–55	12,780									4,320
1955–56	60,630			2,376						17,330
1956–57	14,310			1,103						3,320
1957–58	75,860	16,100		5,159						46,750
1958–59	12,480	1,520		1,202				170		5,760
1959–60	20,860	3,570		804	1,780			387		4,310
1060–61	7,550	1,020		432	577			0.		2,000
1961–62	62,970	11,000	No Record	3,079	3,401			9,180	No Record	19,260
1962–63	66,000	11,180		1,757	1,607	3,153*		607		5,710
1963–64	17,390	1,780		777	1,657	3,037	302	0		2,320
1964–65	43,140	6,960		1,544	1,769	3,610	733	1,670		5,640
1965–66	33,400	4,560		1,336		2,487	889	1,190		5,040
1966–67	73,820	14,360		3,614	NR	9,166*	2,288*	NR		36,960
Drainage area, square miles	41	13	46	—	6	21	13	68	68	102
Average for record period	39,300	7,200	15,000	1,900	1,800	4,300	1,100	1,700	1,600	14,400

* Incomplete record

[a] United States Geological Survey's gaging station

[b] California Department of Water Resources' gaging station

[c] Runoff computed from Chorro Reservoir storage records by California Men's Colony.

[d] San Luis Obispo County Flood Control and Water Conservation District's gaging station

In the San Luis Obispo Creek subarea, Laguna Lake was probably created by alluvium deposited by San Luis Obispo Creek and other creeks tributary to the southeastward-flowing Prefumo Creek. A buildup of alluvium across the San Luis Valley effectively dammed surface water behind it.

Proposed Surface Water Conservation Reservoirs

Five surface water conservation reservoirs have been proposed by SLOCFCWCD for construction by 2010 (Plate 2). Storage capacities and safe yields are listed in Table 7.

Ground Water

Ground water is used throughout the study area for irrigation, industrial, and domestic purposes. It occurs chiefly in the alluvium deposited along the major creeks, where it is generally unconfined (Table 5). In the Morro Bay, City of San Luis Obispo, and Arroyo Grande areas, ground water -- confined and unconfined -- is also extracted from the following sediments, in their relative order of importance: Paso Robles formation, older sand dunes, terrace deposits, Careaga sand, and Pismo formation.

Ground water levels indicate that ground water movement generally follows the land gradient; it flows along stream channels, down the slopes of the Santa Lucia Mountains, toward the ocean. With few exceptions, the ground water basins with small storage capacities usually are completely recharged each winter, mostly by stream percolation. Even if they are substantially dewatered during the summer, natural streamflow is usually enough to recharge them, mostly during the winter[2/].

The total ground water storage capacity for all the basins in the study area is in the order of 2 million acre-feet (Table 5)[2/].

Ground water storage above sea level of all the basins is in the order of 100,000 acre-feet, not including the Nipomo Mesa Basin, which has a storage capacity of about 1 million acre-feet. This usable ground water in storage represents the amount of water that can be extracted from the aquifers lying between sea level and ground surface; it is limited by the minimum storage required above sea level to prevent sea-water intrusion.[2/]

The estimated annual safe yield of the ground water basins totals about 25,000 acre-feet, equal to the average amount of water percolating to the water table annually (Table 5)[2/].

TABLE 7

PROPOSED CONSERVATION RESERVOIRS IN COASTAL SAN LUIS OBISPO COUNTY [12/]

Reservoir	Creek	Storage capacity	Safe yield	Estimated year of completion
Bald Top	San Carpoforo	20,000		2010
			22,500	
Upper Ragged Point	San Carpoforo	30,000		2009
Yellow Hill	Arroyo De La Cruz	80,000	27,300	2005
San Simeon	San Simeon	60,000	18,200	2000
Santa Rosa	Santa Rosa	35,000	8,900	1993

Data for most of the area indicate seasonal cyclic falling and rising water levels, though there has been only a slight net decline between 1953 and 1958. However, most wells evidence a slight sustained water level decline, with the largest occurring in the Nipomo Mesa Basin (Table 8).

A recently completed Department investigation* of sea-water intrusion indicated that onshore ground-water intrusion is not now a problem in Pismo, Arroyo Grande, and Nipomo Mesa[13/], although it is undoubtedly occurring offshore and may, in time, reach coastal onshore wells. An upper Pleistocene terrace deposit, just north of Pismo Creek, is subject to sea-water intrusion because of limited fresh-water recharge and storage. Such intrusion occurs during high tides, when the water table has been lowered in the summer and fall.

Imported Water

Water imported into the study area now comes from the Salinas Reservoir and is used mostly by the City of San Luis Obispo. In 1966-67, about 3,400 acre-feet -- 70 percent of the City's total water used during that fiscal year -- was imported by the City.

The County's entitlement from the Nacimiento Reservoir amounts to 17,500 acre-feet, an unstipulated portion of which may go to the coastal area in the future. Built in 1956, the Reservoir is in San Luis Obispo County, but is owned by the Monterey County Flood Control and Water Conservation District.

Water from the Twitchell Reservoir, constructed by the United States Bureau of Reclamation, is used for recharging the Santa Maria ground water basin, immediately south of the study area.

Interbasin exchanges of water occur within the area in the form of pumped withdrawals: (1) from the Arroyo Grande basin to Pismo Beach, thereby providing Pismo Beach's major supply; (2) from the Old Basin to the Toro and Cayucos hydrologic subareas; and (3) from Whale Rock Reservoir to the Chorro and San Luis Obispo hydrologic subareas.

A proposed distribution system from Lopez Reservoir will supply water to coastal areas as far north as Port San Luis, providing water to Pismo, San Luis Obispo Creek, and Point San Luis hydrologic subareas. Also, it is proposed to build in 1972 a facility to divert water from Santa Rita Creek, in the Paso Robles hydrologic subunit to Whale Rock Reservoir or the Toro Terminal

*Although the investigation is completed, preparation of the report is in progress.

TABLE 8

WATER LEVEL CHANGES IN THE FALL, 1953–54 THROUGH 1965–67

In feet

Ground water basin	Well	Date (1954)	Water level elevation	Date (1967)	Water level elevation	Change
San Simeon	27S/ 8E– 9L1	11/20/54	18	10/21/67	17	– 1
Santa Rosa	27S/ 8E–24J1	11/20/54	58	10/21/67	58	0
Villa	28S/ 9E–23E2	8/12/53	63	10/21/67	51	–12
Old	28S/10E–34N3	11/20/54	29	10/21/67	28	– 1
Toro	29S/10E– 1P1	8/21/53	122	10/21/67	121	– 1
Morro	29S/10E–25B2	11/20/54	29	9/27/66	25	– 4
	29S/11E–17A1	11/22/54	191	10/21/67	193	+ 2
	29S/11E–30D1	11/20/54	26	10/20/67	25	– 1
Chorro	29S/11E–32J1	11/18/54	24	10/16/67	22	– 2
Los Osos	30S/10E–13G1	11/19/54	9	10/19/67	2	– 7
	30S/11E– 7K1	11/19/54	7	10/19/67	9	+ 2
	30S/11E–17H1	11/19/54	– 4	10/19/67	–23	–19
	30S/11E–18Q1	11/19/54	47	10/19/67	58	+11
	30S/11E–21E1	11/20/54	53	10/19/67	51	– 2
San Luis Obispo	30S/12E–32J1	11/23/54	116	10/ 4/65	114	– 2
	31S/12E–10G2	11/18/53	110	10/ 4/66	109	– 1
	31S/12E–14C1	11/20/54	119	10/17/67	121	+ 2
Pismo	31S/13E–16N1	11/19/54	279	10/17/67	300	+21
	31S/13E–19H1	11/ 1/54	245	10/17/67	249	+ 4
Arroyo Grande	31S/14E–31K1	11/19/54	324	10/14/66	328	+ 4
	31S/14E–32G1	11/19/54	346	10/ 6/65	332	–14
	31S/14E–33D1	11/19/54	349	10/14/66	334	–15
	32S/13E– 1G1	11/19/54	282	10/ 5/67	282	0
	32S/13E–12C3	11/19/54	249	10/ 5/67	245	– 4
	32S/13E–12N1	11/19/54	203	10/ 5/67	208	+ 5
	32S/13E–12Q3	11/18/54	210	10/17/66	212	+ 2
	32S/13E–13C2	11/23/53	215	10/ 7/65	195	–20
	32S/13E–14R2	11/18/54	189	10/ 5/67	119	–70
	32S/13E–22J1	11/18/54	108	10/17/66	105	– 3
	32S/13E–23F1	11/18/54	137	10/ 5/67	148	+11
	32S/13E–27D3	11/17/54	65	10/ 7/67	59	– 6
	32S/13E–28G1	11/17/54	57	10/ 5/67	48	– 9
	32S/13E–28Q2	11/17/54	31	10/ 5/67	30	– 1
	32S/13E–29N1	11/18/54	– 3	10/ 4/67	3	+ 6
	32S/13E–30P2	11/18/54	4	10/ 4/67	3	– 1
	32S/13E–32D3	11/18/54	– 5	10/ 4/67	0	+ 5
	32S/13E–32K1	11/18/54	18	10/10/67	10	– 8
	32S/13E–33E3	11/17/54	25	10/19/66	7	–18
	32S/13E–33K1	9/30/54	16	10/ 5/67	17	+ 1
	32S/13E–33L2	11/18/54	21	10/11/65	6	–15
	32S/14E–19A1	11/18/54	277	10/ 5/67	283	+ 6
	32S/14E–19D1	11/18/54	266	10/ 4/67	254	–12
	12N/35W–29N1	11/18/54	27	10/11/65	11	–16
	12N/35W–30K2	11/18/54	15	10/10/67	2	–13
	12N/35W–30P1	11/18/54	22	10/11/65	7	–15
	12N/35W–34G3	11/17/54	134	10/ 5/67	162	+28
Nipomo Mesa	11N/34W–19F1	11/17/54	135	10/18/66	11	–124
	11N/35W– 7R1	11/17/54	36	10/10/66	18	–18
	12N/35W–29R1	11/17/54	124	10/10/67	119	– 5

Reservoir, which may be built on Toro Creek, in the Cambria hydrologic subunit.

San Luis Obispo County has contracted for 25,000 acre-feet a year from the State Water Project. Initial delivery is scheduled for 1980. Because of the expanding urban development in the County's south coastal area, the demand for imported water is likely to be in the order of 10,000 acre-feet by 1990.[18]

3. WATER QUALITY

To achieve the overall purpose of this report -- an evaluation of the area's water resources and a determination of quality objectives -- it is necessary to decide how those resources are to be used beneficially. In the study area, water is employed for recreation, fish-and-wildlife propagation, domestic, municipal, industrial, and agricultural purposes, but chiefly for agricultural irrigation. These uses affect -- and are affected by -- the quality of water.

The specific standards and criteria employed in evaluating the quality of the study area's water resources as they relate to their specific uses are enumerated in Appendix B.

SURFACE WATER

While the surface water of creeks, lakes, and reservoirs ranges from Class 1 to 3 for irrigation, in general, it is Class 1 to 2. Of 234 samples from 46 surface water sources, 75 analyses from 25 of these sources, indicated Class 2 water, because of electrical conductance, chloride, and boron concentrations (Table 9). On the other hand, 13 mineral analyses of water samples from 9 surface water sources indicated Class 3 water because of electrical conductance, chloride, and boron concentrations. Most of the Class 3 water represents water samples collected from small lakes.

About 50 percent of the mineral analyses showed that the water contains mineral constituents exceeding USPHS Standards for drinking water, particularly TDS and, to a lesser degree, chloride, sulfate, and magnesium concentrations (Table 9). Furthermore, about 75 percent of the surface water sampled was hard. A water sample collected from Los Berros Creek on October 6, 1967, showed a nitrate concentration of 87.5 mg/l, exceeding the 45 mg/l recommended USPHS drinking water standards for nitrate.

Many water samples from Pismo Creek show TDS concentrations in excess of 800 mg/l. However, much of the ground water in

TABLE 9

SUMMARY OF SELECTED MINERAL CONSTITUENTS IN SURFACE WATER

Hydrologic subarea	Creek, lake, lagoon, or reservoir	Number of analyses	Constituents in mg/l																		EC x 10^6 at 25° C		
			Mg			SO_4			Cl			NO_3			B			TDS					
			Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.
CREEKS																							
San Carpoforo	San Carpoforo	5	11	23	33	8	22	46	5	12	15	0.0	0.5	2.3	0.00	0.06	0.10	142	211	267	197	364	490
Arroyo de la Cruz	Arroyo de la Cruz	7	10	18	28	10	17	29	2	10	18	0.0	1.2	5.4	0.05	0.20	0.72	90	197	272	139	311	495
	Burnett	1		40			11			14			0.0			0.30			287			506	
San Simeon	Pico	2	33	43	53	30	34	38	16	18	19	0.0	2.1	4.2	0.13	0.15	0.16	304	313	322	490	533	575
	San Simeon	9	10	22	39	12	33	115	3	9	32	0.0	2.2	6.5	0.08	0.15	0.20	125	259	370	162	388	943
Santa Rosa	Santa Rosa	14	13	45	67	14	83	233	7	25	52	0.0	2.0	4.5	0.02	0.21	0.65	180	458	636	224	670	922
Villa	Villa	3	49	52	58	50	55	60	22	65	139	0.0	1.3	2.7	0.30	0.40	0.59	420	501	662	605	795	1,100
Cayucos	Cayucos*	5	12	40	78	0	15	29	12	54	162	1.2	5.0	9.0	0.10	0.21	0.37	150	401	948	200	613	1,340
Old	Old	14	10	33	57	23	70	97	7	24	46	0.0	2.7	5.8	0.00	0.13	0.40	190	436	876	237	640	1,287
	Cottontail	2	10	29	47	15	56	96	7	19	31	2.0	2.5	3.0	0.01	0.05	0.08	205	291	377		734	
Toro	Toro	6	18	48	69	36	53	60	2	56	92	0.2	2.2	4.0	0.05	0.22	0.53	315	450	561	460	732	1,008
Morro	Morro	11	12	36	116	18	41	151	7	33	152	0.0	4.6	15.5	0.00	0.12	0.30	165	348	1,164	223	533	1,520
Chorro	San Bernardo	6	19	43	75	11	30	53	8	24	42	0.0	5.1	10.0	0.02	0.16	0.34	205	338	531	272	508	803
	San Luisito	6	9	38	60	7	27	37	6	23	38	0.0	5.4	11.8	0.00	0.04	0.07	200	361	489	225	533	778
	Pennington	1		84			25			21			1.8			0.08			445			668	
	Chorro	12	27	63	103	0	31	59	19	43	77	0.0	4.1	9.9	0.00	0.09	0.20	234	433	704	347	685	1,080
	Dairy	1		69			37			26			2.3			0.08			465			667	
Los Osos	Los Osos	3	14	28	49	13	22	30	8	21	35	2.0	2.2	2.5	0.04	0.18	0.35	130	236	395	201	374	576
San Luis Obispo Creek	See	4	15	33	52	19	50	83	8	22	27	0.0	0.9	1.5	0.04	0.20	0.43	160	352	514	290	526	744
	San Luis Obispo	13	13	65	104	17	67	90	24	94	160	0.0	14.2	40.2	0.00	0.19	0.65	180	622	986	252	935	1,420
	Steiner	1		62			29			21			0.0			0.00			416			—	
Point San Luis	Islay	2	58	59	59	110	129	148	45	56	67	0.0	0.3	0.5	0.08	0.10	0.12	626	672	719	960	1,030	1,100
	Coon	1		47			86			35			0.0			0.03			494			775	
Pismo	Pismo	36	13	75	110	17	138	204	13	65	136	0.0	5.7	17.7	0.05	0.28	1.10	162	740	915	321	1,120	1,403
	Pismo tributary 32S-12E-1R	2	13	28	44	31	93	155	50	80	110	4.7	4.9	5.0	0.15	0.34	0.52	300	515	729	404	697	990
	Pismo tributary 32S-13E-9H	1		6			9			22			0.4			0.47			—			219	
	Pismo tributary 32S-13E-5C	1		12			29			422			5.1			1.70			—			1,760	
	West Corral De Piedra	1		52			191			33			1.5			0.12			680			944	
	East Corral De Piedra	2	36	50	63	102	109	115	21	28	34	3.0	6.5	10.0	0.05	0.11	0.16	410	493	575	659	776	892
Arroyo Grande	Meadow	1		97			305			556			8.7			0.06			1,809			2,919	
	Canyon No. 1	1		58			66			255			0.0			0.50			968			1,555	
	Arroyo Grande	17	12	43	85	62	159	263	13	32	53	0.0	3.0	14.0	0.00	0.06	0.12	265	605	825	355	850	1,165
	Lopez	4	12	33	47	28	83	123	10	13	18	0.0	0.3	1.0	0.00	0.06	0.19	190	390	518	257	545	747
	Los Berros	3	23	90	128	63	480	689	26	108	176	4.0	33.4	87.5	0.10	0.15	0.23	320	1,343	1,917	449	1,671	2,404
	Tar Springs	2	27	42	57	55	136	220	30	36	42	0.0	3.0	6.0	0.10	0.25	0.40	297	488	678	412	736	1,060
LAKES																							
San Luis Obispo	Laguna	1		53			6			82			4.3			0.20			422			730	
Arroyo Grande	Big Twin	1		151			213			347			1.9			0.49			1,858			3,000	
	Black	3	5	12	18	5	6	7	121	206	303	2.5	3.9	5.0	0.09	0.14	0.24	338	540	744	480	885	1,310
	Celery	1		148			996			218			6.2			0.44			2,327			2,821	
	Le Sage Riviera Golf Course	1		101			371			628			16.0			0.02			1,941			3,124	
	Pismo	1		113			12			1,012			3.7			0.80			2,806			4,671	
	White	3	89	108	138	148	378	657	279	481	676	2.5	25.8	37.2	0.60	1.00	1.40	1,913	2,178	2,400	2,612	3,145	3,623
Nipomo Mesa	Mud	1		111			80			643			2.5			0.38			1,966			2,800	
LAGOON																							
Arroyo Grande	Pismo	3	72	145	274	230	419	744	210	1,375	3,464	0.0	4.3	6.8	0.00	0.50	1.30	1,035	3,417	7,626	1,649	5,033	11,000
RESERVOIRS																							
Old	Whale Rock	4	21	30	51	48	64	97	14	22	41	0.0	1.7	5.0	0.10	0.12	0.17	236	342	528	411	522	735
Chorro	Chorro	1		63			24			22			0.0			0.20			520			545	

*Analysis dated 2-19-59 (Appendix C) was not included in Table 9.

the southeast portion of the Pismo hydrologic subarea is of considerably poorer quality. Surface water would therefore tend to improve rather than impair the quality of the ground water.

GROUND WATER

In general, much of the ground water is either suitable or of marginal quality, for the prevailing beneficial uses. However, there is a discernible difference both in its character and quality, not only between different hydrologic subunits, but between different hydrologic subareas within those subunits (Table 10 and Plates 3A and 3B).

The Cambria Hydrologic Subunit

Ground water quality here is generally Class 1 and 2 for irrigation (Table 10). However, it is occasionally Class 3 because of high chloride concentrations and high electrical conductance. Moreover, analyses of water from a few wells in the Cayucos hydrologic subarea, which yield water from Jurassic rocks, indicate boron concentrations in excess of 2 mg/l.

A water quality anomaly occurs in a water sample collected from 27S/8E-21R3 (Santa Rosa subarea). There 11 samples collected over 13 years showed TDS concentrations ranging from 587 to 842 mg/l, while a sample collected on November 2, 1961, contained 4,118 mg/l TDS.

For domestic use, USPHS Standards for drinking water are exceeded chiefly by TDS, chlorides, and, to a lesser degree, magnesium, nitrate, and sulfate. Hardness presents yet another water quality problem. As can be seen from Table 10, Villa and Cayucos are the only subareas in the Cambria subunit where nitrate in the ground water exceeds the recommended limits. High chloride concentrations occur in water from wells located inland and along the coastal margins of the subareas.

The San Luis Obispo Hydrologic Subunit

Ground water quality is generally Class 1 and 2 for irrigation (Table 10). However, it is occasionally Class 3 because of high electrical conductance, chloride, boron, and sodium concentrations. Boron concentrations in water samples from 32S/13E-6M1 in the Pismo hydrologic subarea range from 2.65 to 5.40 mg/l.

TABLE 10

SUMMARY OF SELECTED MINERAL CONSTITUENTS IN GROUND WATER

Hydrologic Unit	Number of wells	Number of analyses	Constituents in mg/l: Mg			SO_4			Cl			NO_3			B			TDS			EC x 10^6 at 25° C			Character
			Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	Min.	Ave.	Max.	
CAMBRIA*																								
Subareas																								
San Carpoforo	1	9	25	29	37	20	25	30	11	16	30	0.0	1.2	6.2	0.0	0.08	0.12	217	256	356	390	403	633	Mg Ca HCO_3
Arroyo de la Cruz	3	15	25	33	41	19	27	33	17	20	30	0.0	0.2	6.8	0.0	0.10	0.22	194	278	388	396	495	608	Mg Ca HCO_3
San Simeon	20	50	15	42	130	8	67	104	16	172	1,048	0.0	8.7	33.0	0.0	0.12	0.30	260	564	2,210	459	993	3,773	Na Mg HCO_3 Cl
Santa Rosa	15	33	32	68	462	3	72	916	4	102	3,927	0.0	6.2	35.0	0.0	0.23	1.40	298	699	7,932	520	1,133	10,900	Mg Ca HCO_3
Villa	8	23	18	70	148	15	79	222	31	212	560	3.0	31.5	256.0	0.08	0.46	1.14	260	833	1,605	480	1,461	2,501	Na Mg HCO_3 Cl
Cayucos	28	42	2	81	665	22	48	198	39	263	2,630	0.0	21.8	80.0	0.0	0.26	0.60	511	971	5,500	840	1,608	8,741	Mg Na HCO_3
Old	18	77	42	65	359	11	71	213	37	92	1,624	0.0	3.2	14.0	0.0	0.18	1.22	330	651	3,804	584	985	5,350	Mg Ca HCO_3
Toro	2	12	63	71	90	49	66	79	30	71	129	0.0	1.9	6.2	0.04	0.13	0.21	460	581	778	790	945	1,200	Mg HCO_3
SAN LUIS OBISPO*																								
Subareas																								
Morro	21	93	20	85	257	37	106	358	0	177	920	0.0	11.6	61.0	0.0	0.14	0.59	492	872	2,772	865	1,414	4,223	Mg HCO_3
Chorro	23	90	9	114	438	14	104	788	45	254	2,559	0.0	14.5	105.0	0.0	0.13	0.71	547	1,022	5,402	990	1,643	8,264	Mg HCO_3
Los Osos	32	101	1	29	211	0	15	109	24	107	1,090	0.0	18.9	167.0	0.0	0.06	0.55	78	381	2,444	171	597	3,860	Na Cl
San Luis Obispo Creek	41	97	6	74	181	0	92	1,119	28	175	837	0.0	17.1	207.0	0.0	0.23	1.20	278	843	2,284	455	1,295	3,090	Mg HCO_3
Pismo	32	90	12	72	205	0	149	740	25	225	1,844	0.0	18.9	100.0	0.0	0.43	5.40	423	1,076	4,570	795	1,495	7,080	Mg HCO_3
ARROYO GRANDE*																								
Subareas																								
Arroyo Grande	154	371	3	57	164	2	212	822	5	93	1,101	0.0	46.0	195.0	0.0	0.11	0.70	198	807	2,410	220	1,143	4,260	Ca Mg HCO_3 SO_4
Nipomo Mesa	38	82	2	17	62	0	85	471	34	61	137	0.0	11.8	48.0	0.0	0.05	0.81	152	364	1,025	220	536	1,350	Na Cl

* Subunits

For domestic use, notably TDS and, to a lesser degree in descending order in frequency of occurrence, chloride, magnesium, nitrate, and sulfate exceed USPHS Standards for drinking water. Hardness also gives rise to quality problems.

In the Baywood-Los Osos area (Los Osos hydrologic subarea) ground water is of exceptionally good mineral quality in Sections 13 and 23 of T30S, R10E and Sections 7, 17, and 18 of T30S, R11E. Although TDS of this ground water usually is less than 250 mg/l, nitrate concentrations exceeding 45 mg/l have been recorded. The ground water is replenished by percolation of rain falling on the very permeable old sand dune deposits.

The Arroyo Grande Hydrologic Subunit

Ground water quality is generally Class 1 and 2 for irrigation (Table 10). However, in the Arroyo Grande subarea, it is occasionally Class 3 because of high electrical conductance and chloride concentrations.

In the Arroyo Grande subarea, water commonly contains mineral concentrations in excess of USPHS recommended standards for drinking water, particularly TDS and, to a lesser degree in descending order in frequency of occurrence, nitrate, sulfate, magnesium, and chloride. Water for domestic use in the Nipomo Mesa subarea is of much better quality, but sometimes concentrations of TDS, sulfate, and nitrate exceed USPHS drinking water standards.

Water in the deeper water-bearing zones is generally of better quality than the shallow water-bearing zones. Adherence to water well construction and destruction standards should minimize impairment of the deeper zones from poor quality water in overlying zones. Accordingly, DWR has initiated a study to develop specific standards in the Arroyo Grande hydrologic subarea. Resolution No. 69-4, June 12, 1969, expressed the Central Coastal Regional Water Quality Control Board's support of this study. Ground water underlying the old dune deposits often receives direct recharge from rain infiltrating these permeable sediments, thus improving its mineral quality

IMPORTED WATER

Water imported from the Salinas Reservoir is of excellent quality, with TDS concentrations of consistently less than 300 mg/l. Water from the Nacimiento River which may be imported to the study area in the future, is also of excellent quality, with consistently less than 300 mg/l TDS.

Table 11, which presents water quality objectives for the State Water Project, indicates that the water it will deliver will be of good quality; its TDS concentration will average monthly 440 mg/l and over any 10-year period, 220 mg/l. Sodium percentage, not shown in Table 11, will average 50 percent on a monthly basis and 40 percent over any 10-year period.

DOMESTIC WASTE WATER

Numerous domestic waste water treatment facilities serve the study area's expanding population (Plate 2). Their types of treatment and design capacities are varied to handle the increasing volume of discharge (Tables 12 and 13).

A summary of domestic waste water discharges from 1959-60 through 1967-68 shows that the volume of discharges has increased almost 200 percent -- from 2,500 to 7,300 acre-feet per year (Table 13). In 1967-68, 5,350 acre-feet were discharged on the land surface and 1,950 acre-feet into the ocean. Since the population of the coastal areas of San Luis Obispo County is expected to nearly double during the next 20 years, domestic waste water discharges will probably increase in about the same ratio.[5/]

Appendix E tabulates all available chemical analyses of waste water from treatment facilities in the study area between 1958 and 1968.

Table 14 summarizes selected mineral constituents of domestic waste water from treatment plants. TDS concentrations average from 789 to 1,470 mg/l.

Table 15 compares the mineral constituents of supply and waste water for Avila Beach and the City of San Luis Obispo. The change resulting from use reveals about a 400 mg/l increase in TDS and a 150 mg/l increase in chloride concentrations.

Waste water for irrigation use ranges from Class 1 to 3, but is generally Class 2. Waste water from the Morro Bay-Cayucos Sanitary District is commonly Class 3 on the basis of chloride concentration.

The City of San Luis Obispo's treatment plant (capacity 5 mgd) discharges about 60 percent of the total volume of recorded waste water effluents in the study area. The three next largest dischargers in descending order are: (1) the Morro Bay-Cayucos Sanitary District (ocean outfall), (2) California Men's Colony, and (3) South San Luis Obispo County Sanitation District (ocean outfall).

TABLE 1.1
WATER QUALITY OBJECTIVES
STATE WATER PROJECT

Constituent	Milligrams per liter		
	Monthly average	Average per any 10--year period	Maximum
TDS	440	220	—
Total hardness	180	110	—
Chlorides	110	55	—
Sulfates	110	20	—
Boron	0.6	—	—
Fluoride	—	—	1.5
Lead	—	—	0.1
Selenium	—	—	0.05
Hexavalent chromium	—	—	0.05
Arsenic	—	—	0.05
Iron plus manganese	—	—	0.3
Magnesium	—	—	125
Copper	—	—	3
Zinc	—	—	15
Phenol	—	—	0.001

TABLE 12
DOMESTIC WASTE WATER TREATMENT FACILITIES

Discharger*	Description of treatment	Plant design capacity in mgd	Disposal
1. San Simeon Acres Community Service District 27S/8E–6	Rated-aeration; chlorination	.050	Ocean
2. San Simeon Monument Visitors Center 27S/8E–9	Septic tanks	.020	Land surface for irrigation
3. Cambria County Water District (a proposed discharge) 27S/8E–22	Extended aeration	.160	Land surface for irrigation
4. U.S. Air Force Dependent Housing, Cambria 27S/8E–27	Accelo-Blox type; sand filtration and chlorination	.008	Santa Rosa Creek
5. Cambria Air Force Station 28S/8E–12	Septic tank and ocean outfall	.015	Ocean
6. Morro Bay–Cayucos Sanitary District 29S/10E–25	Screening, primary settling, trickling filter, final settling, chlorination, sludge digestion and drying 9/	2.000	Ocean
7. California Men's Colony 30S/11E- 12	Barscreen, primary settling, biofilters, secondary settling, chlorination, sludge digestion 9/	2.000	Chorro Creek; some used for irrigation
8. San Luis Obispo Bay Properties, Inc. 31S/11E–36	Contact stabilization type secondary treatment, chlorination	.050	Land surface for irrigation
9. City of San Luis Obispo 31S/12E–3	Screening, primary settling, two-stage trickling filter, final settling, chlorination, oxidation ponds, sludge digestion and drying 9	5.000	San Luis Obispo Creek; much is used for irrigation
10. Hidden Hills Mobilodge 31S/12E–12	Aeration, chlorination	.009	Tributary creek to San Luis Obispo Creek
11. Avila Sanitary District 31S/12E–31	Screening, primary settling, chlorination, odor control, sludge digestion, and drying	.200	Ocean
12. A-Vee-La-Mar Trailer Park (a proposed discharge) 31S/12E–32	––	.030	Land surface for irrigation
13. Fairway Manor Subdivision 31S/13E–19	Ponding, aeration	.015	Land
14. Lopez Reservoir Recreation Area (a proposed discharge) 31S/14E–22	Evaporation-percolation ponds; estimated initial flow = .025 mgd	.100	Land
15. Shell Beach Sanitary District 32S/12E–9	Screening, primary settling, trickling filter, final settling, chlorination, sludge digestion and drying 9/	.175	Ocean
16. Pismo Beach 32S/12E–13	Screening, primary settling, filtration, secondary settling, chlorination, sludge digestion and drying 9/	.450	Ocean
17. LeSage Riviera 32S/12E–24	Septic tank with leach lines	.105	Land
18. South San Luis Obispo County Sanitation District 32S/13E–31	Chlorination, activated sludge	2.500	Ocean

*Location on Plate 2

TABLE 13

HISTORIC QUANTITIES OF WASTE WATER DISCHARGED IN COASTAL AREA, SAN LUIS OBISPO COUNTY

Agency	Flow in Million gallons per day / acre-feet per year (July 1 – June 30)								
	1959–60	1960–61	1961–62	1962–63	1963–64	1964–65	1965–66	1966–67	1967–68
San Simeon Acres Community Service District (27S/8E–6)	—	—	—	—	—	—	0.006 / 6	0.016 / 18	0.020 / 22
U.S. Air Force Dependent Housing, Cambria (27S/8E–22)	—	—	—	—	—	—	—	0.005 / 6	0.006 / 7
Morro Bay–Cayucos Sanitary District (29S/10E–25)	—	—	0.600 / 672	0.700 / 784	0.747 / 837	0.854 / 956	0.874 / 979	0.893 / 1,001	0.983 / 1,101
California Men's Colony * (30S/11E–12)	0.318 / 356	0.313 / 351	0.603 / 675	0.636 / 713	0.680 / 760	0.649 / 726	0.700 / 784	0.743 / 832	0.788 / 883
City of San Luis Obispo (31S/12E–3)	1.558 / 1,745	1.597 / 1,790	2.575 / 2,883	2.725 / 3,052	3.190 / 3,574	3.342 / 3,743	3.276 / 3,670	3.577 / 4,006	3.917 / 4,388
Hidden Hills Mobilodge (31S/12E–12)	—	—	—	—	—	—	—	0.003 / 3	0.003 / 3
Avila Sanitary District (31S/12E–31)	0.030 / 35	0.030 / 32	0.035 / 40	0.036 / 40	0.042 / 47	0.032 / 37	0.036 / 40	0.036 / 40	0.036 / 40
Shell Beach Sanitary District (32S/12E–9)	—	0.170 / 190	0.105 / 118	—	0.106 / 119	0.106 / 118	0.106 / 118	0.103 / 115	0.105 / 117
Pismo Beach (32S/12E–13)	0.180 / 202	0.198 / 222	0.246 / 275	—	0.240 / 269	0.228 / 256	0.215 / 241	0.199 / 223	0.197 / 221
South San Luis Obispo County ** Sanitation District (32S/13E–31)	0.18 / 200	0.18 / 200	0.24 / 270	0.32 / 359	0.33 / 366	0.35 / 393	0.37 / 428	0.489 / 548	0.433 / 485
TOTALS	2.266 / 2,538	2.488 / 2,785	4.404 / 4,933	4.417 / 4,948	5.335 / 5,972	5.561 / 6,229	5.583 / 6,266	6.064 / 6,819	6.488 / 7,298

* Includes Camp San Luis Obispo

** Arroyo Grande Sewage Treatment Plant (32S/13E–29) discharges to the land prior to June 1966

TABLE 14

SUMMARY OF SELECTED MINERAL CONSTITUENTS IN TREATED DOMESTIC WASTE WATER

Treatment plant	Number of analyses	Constituents in mg/l														
		SO_4			Cl			NO_3			NH_4			TDS		
		Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.	Min.	Av.	Max.
San Simeon Acres Community Service District 27S/8E–6	4	51	61	70	138	189	242	3	44	83	0.4	9	30	646	788	912
U.S. Air Force Dependent Housing, Cambria 27S/8E–22	4	150	156	161	90	101	115	9.4	101	107	0.0	0.2	0.4	910	924	937
Morro Bay–Cayucos Sanitary District 29S/10E–25	15	86	115	191	266	359	534	0	6	28	7	30	66	1,160	1,409	1,692
California Men's Colony 30S/11E–12	16	29	91	589	114	272	865	0	23	98	0	4	38	766	1,045	1,997
San Luis Obispo Bay Properties, Inc. 31S/11E–12	1		134			90			35			3			778	
City of San Luis Obispo 31S/12E–3	9	95	141	270	140	162	219	1	47	99	1	10	50	668	820	1,128
Hidden Hills Mobilodge 31S/12E–12	1		81			244			155			0			1,223	
Avila Sanitary District 31S/12E–31	8	28	92	163	185	505	1,376	0	2	8	1	38	58	785	1,470	3,485
Shell Beach Sanitary District 32S/12E–9	8	164	191	221	153	251	305	0	13	73	14	31	59	766	1,072	1,370
Pismo Beach 32S/12E–13	13	127	178	225	128	244	390	7	25	53	5	19	30	670	1,035	1,405
South San Luis Obispo County Sanitation District 32S/13E–31	2	166	150	183	186	207	227	1	3	5	43	.44	44	980	992	1,004

TABLE 15

MINERAL CONSTITUENTS IN SUPPLY WATER COMPARED WITH WASTE WATER

Source of sample	Date sampled	pH	EC	Mineral constituents in mg/l									
				Ca	Mg	Na + K	NH_4	CO_3 + HCO_3	SO_4	Cl	NO_3	TDS	Total hardness
City of San Luis Obispo's water supply	10/19/66	8.1	469	36	21	28	—	135	80	24	.4	258	176
City of San Luis Obispo's waste water	10/19/66	7.1	1,121	36	36	164	3	157	108	153	89.3	705	238
Increment of change		-1.0	+ 652	0	+ 17	+136	--	+ 22	+ 28	+129	+88.9	+447	+62
Avila Beach's water supply	10/26/66	7.7	704	35	28	72	—	242	56	66	4.7	411	202
Avila Sanitary District's waste water	10/20/66	6.5	1,493	37	25	187	45	329	80	232	5.0	840	196
Increment of change		-1.2	+ 789	+2	- 3	+ 115	--	+ 87	+ 24	+166	+ .3	+429	- 6

In June 1969, the Avila Sanitation District completed construction of a new treatment plant with an ocean outfall conduit 2,200 feet long. The first stage of the plant will be able to treat 200,000 gallons per day and will ultimately expand to 1 million gallons per day.

San Luis Obispo Bay Properties began operation of its treatment plant in November 1968, which has been planned for an ultimate design capacity of 0.200 mgd.

The San Simeon Community Service District enlarged its treatment facilities to design capacity.

The South San Luis Obispo County Sanitation District (capacity 2.5 mgd) provides service for the Cities of Arroyo Grande and Grover City and the communities of Oceano and Halcyon. This plant now receives effluent that formerly went to the Arroyo Grande sewage treatment plant with a capacity of .25 mgd (Plate 3B).

Cuesta Mobil Home Park (30S/11E-18D) has proposed construction of a .023 mgd capacity treatment plant about 700 feet south of Morro Bay in the Los Osos area (Plate 3A). Disposal of effluent will be by subsurface leaching.

INDUSTRIAL WASTE WATER

Four major industrial waste water dischargers are in the study area (Plate 2). Three are covered by waste discharge requirements, one is not.

Pacific Gas and Electric Company discharges about 0.108 mgd of waste water and about 53,000 gallons of spent hydrochloric acid and ammonia to a condenser cooling water tunnel emptying near the shoreline of the north side of Morro Rock. It does this four times a year.

In 1960, the Hyla Oil Company discharged about 30 barrels per day of oil field waste water into evaporation-percolation ponds. Its waste water production since 1960 has probably increased. This discharge can percolate to the ground water of the Pismo hydrologic subarea. Table 16 provides mineral analyses of oil field waste water discharges to the land surface (Plate 3B). Reference No. 14 shows mineral analyses of oil field waste water for 1951 through 1953 in the Arroyo Grande Oil Field.

The Signal Oil and Gas Company discharges about 13,000 gpd of effluent into Pismo Creek and about 2,000 gpd into an unlined sump adjacent to the Hyla Oil Company's discharge. Requirements for this discharge, which is considered relatively small, are being formulated by the Board.

TABLE 16

MINERAL ANALYSES OF OIL FIELD WASTE WATER IN ARROYO GRANDE OIL FIELD

Location of sample	Date sampled	pH	EC	Mineral constituents in mg/l									
				Ca	Mg	Na + K	CO_3 + HCO_3	SO_4	Cl	NO_3	F	B	TDS
Hyla Oil Company													
31S/13E–31	2/ 2/60	7.1	1,845	137	47	244	1,052	5	112	1	0	.90	1,253
	9/28/67	7.1	1,645	56	36	303	801	27	148	0	.5	1.10	1,569
Signal Oil Company													
31S/13E–31	9/ 8/64	7.6	1,625	114	91	189	1,140	12	72	0	.2	.86	1,160
(Main lease)	9/28/67	7.5	1,628	96	51	221	859	23	133	1	.2	.84	1,153
(Rock lease)	9/28/67	7.4	1,237	90	42	144	693	34	60	1	.4	1.10	984
32S/13E–6	4/ 3/53	7.0	7,352	93	43	1,753	2,691	3	1,471	0	—	11.7	4,677

The Union Oil Company discharges about 0.5 mgd of waste water to the ocean at a point 3/4 of a mile north of Oso Flaco Lake through a 1,000-feet ocean outfall.

PROBABLE FACTORS AFFECTING WATER QUALITY

Among other factors, impairment to water quality in the area is caused by irrigation return water, domestic waste water, and industrial waste water. These sources of impairment to water quality are the result of man's activities and therefore their effects can be minimized.

Irrigation Return Water

Irrigation return water is an important factor affecting the area's ground water quality. In agricultural areas being encroached upon by suburban expansion, the impairment effects of irrigation return water may be long-lasting. The application of fertilizers to crops, the concentration of salts in the irrigation water by evapotranspitation, the reduction of the volume of ground water by extraction, and the leaching of the soil from deep percolation have all increased the concentration of mineral constituents, mainly sulfates and nitrates. However, in addition to irrigation return water, the ground water is affected by domestic and animal wastes from dairying, stock raising, and stock feedlot operations. In areas where there is combined use of land and water, it is difficult to ascertain if certain constituents in the ground water are chiefly the result of irrigation waters or domestic waste disposals and/or animal wastes. The present study did not determine the contributions from each source.

The Cambria Hydrologic Subunit is principally oriented toward agriculture and cattle ranching. Where farming is done on narrow strips of alluvium overlying bedrock in the northern coastal basins there are few signs of impairment. Well 28S/9E-26E1, in the Villa subarea, which is for domestic and livestock use, shows nitrate concentrations ranging from 107 to 266 mg/l. Downstream from 26E1, well 28S/9E-35C1, used for livestock, has shown nitrate concentrations greater than 45 mg/l.

The San Luis Obispo Hydrologic Subunit has ground water containing nitrate in excess of 45 mg/l. This can be attributed, at least in part, to return water after use by irrigation (I) and livestock (L). The following wells fall into this category: 29S/11E-19B1 (IL) (Morro subarea); 29S/11E-31D1 (I), -32J2 (I) (Chorro subarea); 30S/11E-8J1 (L) (Los Osos subarea); 31S/12E-1N3 (L), -28N1 (I), (San Luis Obispo Creek subarea); 31S/13E-19H2 (I), -27R1 (L), 32S/12E-13A1 (L), and 32S/13E-6M1 (IL) (Pismo subarea). A sample from 31S/12E-28N1 showed a

sulfate concentration of 1,119 mg/l (June 16, 1955). Two samples from well 31S/13E-29E1 (Pismo subarea) averaged 267 mg/l in sulfate concentration, indicating probable impairment from return irrigation water.

The Arroyo Grande Hydrologic Subunit is expanding in urban-suburban land use, but at present the major use of its land is for agriculture. Nitrate impairment is principally centered around the Grover City-Oceano area. The two chief contributors to that impairment are (a) return irrigation water containing minerals from fertilizer and (b) sewage discharge to septic tanks and leach fields.[18,20] About 70 wells in the Arroyo Grande-Oceano-Grover City area (Arroyo Grande subarea) show nitrate concentrations ranging from 45 to 195 mg/l; and in the Nipomo Mesa subarea, wells 11N/35W-5N1 and 12N/35W-29R1 produced samples having nitrate concentrations over 45 mg/l. Samples from 25 wells in Sections 12, 22-24, 27, and 30-34 of T32S, R13E and Sections 7, 8, 18, and 19 of T32S, R14E show sulfate impairment from 250 to 822 mg/l, which is chiefly caused by return irrigation water.

Disposals from Domestic Waste Water Treatment Plants

In most cases, the ground water impairment by treated domestic waste water from treatment facilities cannot be determined based on meager available data.

Wells downstream from the San Luis Obispo waste water treatment facilities show only minor nitrate impairment; concentrations have remained under 45 mg/l.

Wells near the abandoned Arroyo Grande sewage treatment plant's waste water disposal area (32S/12E-29F) show nitrate impairment on the order of 45-195 mg/l (Plate 3B). However, irrigation return water also contributes to this impairment. Operations of the Arroyo Grande STP were terminated in June 1966.

Individual Septic Tank Waste Discharges

In the following hydrologic subunits nitrate impairment has been detected in localized areas:

The Cambria Hydrologic Subunit's ground water generally does not exceed nitrate concentrations of 45 mg/l. However, impairment from individual waste disposal units probably occurs in well 28S/9E-26E1 (Villa subarea) and in wells 28S/10E-33E1, -33E3, -33E6, -33E10, and -33L1 (Cayucos subarea).

The San Luis Obispo Hydrologic Subunit's ground water has had some nitrate impairment from sewage disposal to septic tank

leach field systems, especially in the Morro Bay area. This is evidenced by nitrate concentrations exceeding 45 mg/l in wells 29S/11E-31D1 and -32J2 (Chorro subarea); 30S/10E-13A1, -13A6, and -13B2 (Los Osos subarea); wells 30S/12E-29Q1, 31S/12E-1N3, -12E3, and -28N1 (San Luis Obispo Creek subarea); and 32S/12E-13A1, -13J3, -13L1, -13L2, and -13P1 (Pismo subarea). Well 30S/12E-29Q1 (San Luis Obispo Creek subarea) shows both nitrate and chloride impairment. Such chloride impairment may be the result of water-softening wastes.

The Arroyo Grande Hydrologic Subunit continues to suffer considerable ground water impairment from individual domestic waste disposal units. Also, in the past, impairment was caused by the Arroyo Grande sewage treatment plant waste discharges. The total impairment is a result of both return irrigation and domestic waste water*. Samples from 70 wells show nitrate concentrations greater than 45 mg/l and ranging up to 195 mg/l. About 50 percent of the subunit is now served by sewage facilities, with ocean disposal after treatment. Well 32S/14E-19D3 shows nitrate and chloride impairment. Chloride impairment may result from water-softening wastes.

Industrial Waste Water

Only two major industrial waste water dischargers are now disposing of effluent on land. These are the Hyla and the Signal Oil and Gas Companies in Price Canyon in the Pismo hydrologic subarea (Plate 2).

The disposal of oil field waste water in the Pismo basin may be the source of boron impairment to ground water, according to analyses of water from well 32S/13E-6M1, which has exhibited boron concentrations of 2.65 to 5.4 mg/l. Water from wells in Sections 12 and 13, R32S, T12E, show boron concentrations greater than 0.5 mg/l, which is relatively high for this area. The boron concentration in the Signal Oil Company's waste water effluent in Section 6, 32S/R13E, was 11.7 mg/l in April 1953 (Table 16, Plate 3B).

OTHER IMPAIRMENT TO FRESH WATER QUALITY

Sources of impairment to surface and ground water unrelated to waste discharge are: (1) the chemical composition of the geologic environment and (2) sea-water intrusion.

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*See previous section, "Irrigation Return Water", Page 36.

Chemical Composition of the Geologic Environment

A high percentage of calcium and magnesium is derived from the Jurassic rocks forming the coastal hills and mountains. Alluvial stream channels are composed from varying degrees of debris derived from the Jurassic rocks. Therefore, surface and ground water in the alluvial channels gain in dissolved mineral content from contact with the calcium-magnesium-rich rocks. The hardness -- calcium-magnesium-bicarbonate hardness -- of much of the water throughout the study area is also due to the solution of minerals from the Jurassic rocks. Hardness in ground water produced from the Santa Rose, Villa, Morro, Chorro, and Pismo hydrologic subareas averages about 500 mg/l.

Residual Saline Deposits

Ground water quality is impaired in areas where saline deposits yield minerals to it readily. Marine terraces in some areas contain salts deposited in the past by ocean water. Salts also were deposited from ancient lagoons, bays, and lakes in the low areas from Pismo Lake south to Oso Flaco Lake; in Morro Bay, where Los Osos and Chorro Creeks enter it; and in Warden Lake. Wells showing average chloride values greater than 250 mg/l and indicating probable impairment from saline deposits are shown in Table 17.

Connate Water and Mineralized Zones

Ground water samples showing relatively high mineral content are thought to be chiefly impaired by connate water and mineralized zones in a few wells (Table 18). These differ from residual saline deposits in their mode of origin. In this area, connate water is commonly ocean water trapped in the sediments at the time of deposition. Mineralized zones occurring in areas of faulting affect the quality of the ground water. In these faulted areas, increased mineralization of the water can occur by coming in contact with faulted and fractured rock and minerals and/or with gases and mineralized juvenile waters moving up along fault fractures.

Hot sulfur springs and well water emanating from Miocene rocks occur probably along a mineralized zone in the Pismo and Arroyo Grande hydrologic subareas. This water has recorded temperatures ranging from 53° F to 133° F, and gives off a hydrogen sulfide, or sulfur odor. Concentrations of TDS and sulfate range from about 500 to 900 and 50 to 300 mg/l, respectively. Some of these springs and wells have been developed for public use, e.g., Sycamore Hot Springs, Ontario Hot Springs, and Newson's Hot Springs.

TABLE 17

WELLS SHOWING WATER MINERAL QUALITY IMPAIRMENT FROM RESIDUAL SALINE DEPOSITS

Hydrologic subarea	Wells producing samples having an average chloride content of over 250 mg/l	Wells producing samples having average chloride and sulfate contents of over 250 mg/l	Wells producing samples having an average sulfate content of over 250 mg/l
San Simeon	26S/ 6E–11B1,2 –11G1 26S/ 7E–20D1		
Santa Rosa		27S/ 8E–16N1	
Villa	28S/ 9E–35C1		
Cayucos	28S/10E–32G1,2,3 –32J1 –32K1 –33D1		
Morro		29S/10E–24N1	
Chorro	29S/11E–32E1,4		
Los Osos	30S/11E– 8J1 –21E1		
San Luis Obispo Creek		32S/12E– 4L1	32S/12E– 4K2
Point San Luis	30S/10E–27R1		
Pismo	32S/12E–13J1 –13R1 –24B1	32S/12E–12R1 –13A1 –13J2,3	
Arroyo Grande		32S/13E–31H4	32S/13E–30N2 –31F2,3 –31H1,2,3,7 –31J2,3 –31K1 11N/35W– 6C1 12N/35W–29M1 –29N1,2 –30M1 –31H1

TABLE 18

WELLS SHOWING WATER MINERAL QUALITY IMPAIRMENT FROM NATURAL OR SEA-WATER SOURCES*

Hydrologic subarea	Probable sources of ground water impairment		
	Connate water and mineralized zones	Sea-water intrusion	
		Tidal effects	Subsurface effects
Villa	28S/ 9E–22N1		
Cayucos			28S/10E–33E3,5,10,11,12 –33M1
Old †			29S/10E– 3C1,3 – 3G1
Morro			29S/10E–23R1 –25D1,2,3 † –25E1†,2
Chorro			29S/11E–32M1,2†,3,4† 30S/11E– 6F1
Los Osos †			30S/10E–13B2
San Luis Obispo Creek	31S/12E– 1N6 – 2P1 –12E3 –12L1 –12N1 –12O2 –29P2†⊕		31S/12E–32D1, 2
Arroyo Grande	32S/14E–7J1 ⊕ –7K1 ⊕ –8N1 ⊕	32S/12E–24K1 –24R1 32S/13E–30F1⊕ –31C1⊕	
Nipomo Mesa† ⊕	11N/34W–19F1 11N/35W– 7A1 – 7R1 –14Q1 –17D1		

*Analyses of well samples showing averages of greater than 250 mg/l chloride concentrations, except where noted (†).
†Wells producing samples having an average chloride content of less than 250 mg/l.
⊕Wells producing samples having an average sulfate content of over 250 mg/l.

Sea-Water Intrusion

Impairment of the fresh water resources occurs by sea-water intruding surface water during high tides and fresh ground water aquifers during a landward hydraulic gradient.

Tidal Effects

In the immediate coastal area, surface water becomes impaired by ocean water invading lagoons and streams during high tides. Ground water in those areas and along the beaches also becomes impaired when recharged by ocean water during high tides.

Subsurface Effects

There appears to be a ground water quality problem in a few areas where levels have been sufficiently lowered to allow a landward encroachment of sea water. Water levels fluctuate seasonally, but are considerably lower in the summer and fall, especially when ground water recharge is at a minimum and when pumping is heavier than in the winter and spring. Therefore, if sea-water intrusion occurs at all, it occurs in the summer and fall.

The wells thought to be intruded by sea water because of rapid increases in chloride content and water levels lower than sea level (only few of the wells had water level data available) are listed in Table 18. However, in some instances, these wells may have been affected by high tidal effects; in other instances, when water levels are sufficiently lowered, saline connate water may seep toward the affected well from nearby sediments and cause high chloride concentrations similar to sea-water intrusion.

4. WATER QUALITY OBJECTIVES

To establish water quality objectives, it is important to obtain an in-depth picture of both the quantity and quality of the area's total water resources, as well as their use and disposal.

Once these physical conditions have been established, the Board can then fix firm objectives after due consideration of the beneficial uses of water, waste discharges, economics, and alternative water resources management plans. Moreover, these objectives should be examined and evaluated, not only as they may affect present day conditions, but no less importantly as they may affect future conditions.

Within the limited scope of this preliminary-level study, it has not been possible to present such an in-depth picture of the area's water resources. Hence, the water quality objectives set forth in the following pages are designed to serve only until such time as the results of an in-depth study can be made; they should be regarded only as preliminary for final objectives. The current cooperative investigation by DWR and SLOCFCWCD should provide valuable information to the Board for its use in establishing water quality objectives for the Arroyo Grande Basin. Additional information from local agencies, obtained as a result of the Board's public hearing on objectives, should also be considered in the light of local water use and local waste disposal.

In-depth information would be essential for the remaining study area. Until the results of water resources management studies are made available, however, water quality objectives for the study area should only be considered interim objectives.

Appendix B, containing water quality standards and criteria; Appendixes C and D, containing water quality analyses; and Plates 3A and 3B, depicting water quality conditions, should be employed as guidelines for setting specific waste discharge requirements, as well as for setting water quality objectives for surface and ground waters.

To allow for the wide variations in mineral composition of surface and ground water in the different locations, four zones were established for surface water quality objectives and three zones for ground water, with each zone having successively higher mineral constituents. The suggested objectives for each zone are shown in Table 19.

Various factors -- historic and prevailing water quality conditions (Table 10), USPHS recommended and mandatory standards, and the State Department of Public Health Standards -- were used in devising these quality guidelines. However, in this preliminary-level study, future planned ground water extractions, artificial recharge, water importation, waste water discharge, waste water reclamation and reuse, and other essential elements in a water quality control plan were not examined in depth. Local water agencies are knowledgeable about such matters and information on their plans for water resources management should be of considerable value to the Board.

SURFACE WATER

Objectives presented in Table 19 are suggested below for surface waters flowing into Whale Rock and Lopez Reservoirs

TABLE 19
SUGGESTED WATER QUALITY OBJECTIVES*

Constituent	Concentrations in mg/l, except where noted			
	Zone I	Zone II	Zone III	Zone IV
Total dissolved solids (TDS)	500	1,000	1,500	2,500
Calcium (Ca)	70	150	200	200
Magnesium (Mg)	50	125	130	150
Sodium (Na)	50	150	200	600
Potassium (K)	5	10	15	35
Carbonate (CO_3)	5	10	15	40
Bicarbonate (HCO_3)	350	650	700	1,200
Sulfate (SO_4)	100	250	700	700
Chloride (Cl)	80	250	300	1,000
Nitrate (NO_3)	20	40	45	45
Fluoride (F)	0.8	1.0	1.5	2.0
Boron (B)	0.5	1.0	1.5	2.0
Detergents (MBAS)	0.5	0.5	0.5	1.0
Percent sodium (%Na)	60	75	75	75
Electrical conductance in micromhos	800	1,500	2,000	4,000
pH value	6.5–8.5	6.5–8.5	6.5–8.5	6.5–8.5

*Applies only to those waters for which there are water quality data.

and proposed impoundments* and downstream from those impoundments. Most water conserved in these reservoirs will be mainly runoff from local storms, which is expected to be generally less than 500 mg/l. Listed below are the four zones:

Zone I: Whale Rock and Lopez Reservoirs and proposed impoundments.

Zone II: Surface water downstream from surface water impoundments and for surface waters except for those listed under Zones III and IV in which there are no surface water impoundments.

Quality of Zone II will vary depending on: (a) volume of flow, (b) antecedent storm conditions, (c) frequency of rainfall, (d) season of the year, (e) vegetation, (f) cultural development.

Governed by these factors, the main consideration might be protection of the ground water supply because of wide variations in the quality of surface water within short periods of time. Objectives for surface water should therefore not be lower than for ground water.

Zone III: Los Berros Creek in Arroyo Grande subarea (Figure 1).

Zone IV: Meadow Creek, Big Twin, Celery, Le Sage Riviera, Mud, Pismo, and White Lakes in Arroyo Grande hydrologic subunit (Figure 1).

GROUND WATER

In establishing preliminary objectives, consideration should be given to those areas having wells with water that was at one time impaired, but has since improved. For example, the areas where saline water impairment occurred briefly in the past and might occur again, exceed established objectives. Consideration should also be given to those areas having wells that are known to be impaired as a result of man's activities.

The three zones shown below apply to the suggested water quality objectives for ground water (Table 19). Note that the exceptions below apply to wells whose mineral analyses since 1965 show impairment. However, heavy precipitation occurring in January and February of 1969 may have flushed out or reduced the impairment in these wells since the latest analyses.

*Bald Top, Upper Ragged Point, Yellow Hill, San Simeon, and Santa Rosa. For their locations see Table 7 and Plate 2.

Zone I: San Carpoforo, Arroyo de la Cruz, and Nipomo Mesa[a] subareas; Sections 13 and 23 of T30S, R10E and Sections 7, 17, and 18 of T30S, R11E of Los Osos Subarea (Figure 1 and Plates 3A and 3B). Exceptions: (a) 11N/35W-5D6, -7R1.

Zone II: San Simeon, Santa Rosa, Villa[a], Cayucos[b], Old[c], Toro, Morro[d], Chorro[e], Los Osos[f], Point San Luis[g], San Luis Obispo Creek[h], and Arroyo Grande[i] subareas (Figure 1).
Exceptions:
a. 28S/9E-26E1, -26N3
b. 28S/10E-31F1, -32A3, -33E3,5,10
c. 29S/10E-3C1, -3G1
d. 29S/10E-25D2
e. 29S/11E-32M1
f. 30S/11E-8J1, -21E1, and excluding Sections in Zone 1.
g. 30S/10E-27R1
h. 30S/12E-29Q1, 31S/12E-1N6, -12E3, -12N1
i. 32S/12E-24R1, 32S/13E-19J2, -20N5, -29E6, -29F1, -30F1, -30H2, -30K5,6,10, -30N2, -30P2, -30R1,2, -31B4,5,6,7,9,10,12,13, -31C1, -31F2,3, -31H1,2,3,7, -31J2,3, -32A1, -32C3, -32D1, -33M2, -34Q1

Zone III: Pismo Subarea (Figure 1)
Exceptions: 32S/12E-13A1, -13J1,2, -13L1,2, -13P1, -13R1, -24B1, -32S/13E-6M1

MONITORING

Water quality and quantity are equally important in assessing water resource conditions. A surface and ground water monitoring program can aid in effectively controlling water quality by keeping surveillance on the (a) effects of specific waste discharges (b) changes in areal water quality, and (c) changes in supply and direction of flow.

Complete mineral analyses furnish a reliable index to water quality, while partial analyses for synthetic detergents and phosphates can help to identify the sources of domestic waste discharges.

Ground water level measurements are necessary to indicate depths to ground water and direction of water movement. Surface water measurements are necessary to determine the regimen and quantity of surface flow.

Waste Discharge Surveillance

It is possible to monitor the effects of waste discharges by (1) measuring flow rate and quality upstream and

downstream from the points of discharge and (2) sampling for quality and measuring depth to water in shallow wells near the major domestic waste water treatment facilities.

Wells selected for monitoring ground water quality downstream from the major domestic waste water treatment discharge sites are shown on Plates 3A and 3B and in Table 20.

Well 32S/13E-6M1 is suggested for monitoring the effects of industrial waste water discharged by the Hyla and Signal Oil and Gas Companies (Plates 2 and 3A).

Data should be collected in the spring and fall, until evaluation suggests a change in frequency. Also, as data are collected and evaluated, it may be desirable to add or eliminate monitoring wells.

Areal Water Quality Monitoring

The data resulting from the San Luis Obispo County Flood Control and Water Conservation District's measuring-and-sampling program for surface and ground water will provide the means of determining water quality and quantity. The District's surface water sampling sites are shown on Plate 2. Wells measured and sampled by the District are listed on Plates 3A and 3B. Wells for monitoring water levels are established for continued measurements, whereas those for sampling mineral analyses are subject to considerable change because a particular well may not be operational at the time of sampling.

The Department is continuing to cooperate with the District to establish its monitoring program to meet the need for timely data. This is essential to appraise, develop, and use the area's water resources to an optimum extent.

5. FINDINGS

1. Urban-suburban land use is increasing faster than agricultural.

2. Water from the Salinas Reservoir is imported by the City of San Luis Obispo.

3. Proposed water conservation facilities would produce an estimated additional 77,000 acre-feet annually.

4. Ground water storage capacity for all the basins is in the order of 2 million acre-feet, whereas usable storage

TABLE 20

DOMESTIC WASTE WATER DISCHARGE SURVEILLANCE

Domestic waste water treatment facilities	Wells recommended for monitoring effects of the discharge on ground water
Cambria County Water District (proposed) 27S/8E–22	To be selected after construction of facility
U. S. Air Force Dependent Housing, Cambria 27S/8E–27	27S/8E–27G1
California Men's Colony 30S/11E–12	30S/11E–12N1
Cuesta Mobile Home Park (proposed) 30S/11E–18	To be selected after construction of facility
City of San Luis Obispo 31S/12E–3	31S/12E–10M1
Hidden Hills Mobilodge 31S/12E–12	31S/12E–12D3
A–Vee–La–Mar (proposed) 31S/12E–32G	To be selected after construction of facility
Fairway Manor Subdivision 31S/13E–19	31S/13E–19L1
LeSage Riviera 32S/12E–24	32S/12E–24R1 – Sample upper zone, 30–60 feet

above sea level is in the order of 100,000 acre-feet (Nipomo Mesa not included in the latter figure).

5. The estimated amount that can be extracted annually without causing a long-term change in ground water storage is 25,000 acre-feet.

6. Most of the surface and ground water is suitable for domestic, municipal, and industrial purposes; for irrigation, it ranges from Class 1 to 3. For domestic use, TDS, hardness, nitrate and chloride cause the principal problems.

7. Ground water from the Arroyo Grande subunit's deeper aquifers is of better quality than that from the shallow aquifers which contains high nitrate concentrations.

8. Ground water in the Arroyo Grande-Grover City-Oceano area shows nitrate concentrations up to 195 mg/l from domestic sewage and irrigation return water.

9. During 1967-68, about 5,400 acre-feet of domestic waste water was discharged to the land and about 2,000 acre-feet to the ocean.

10. Waste water from sewage treatment plants is of poorer quality than ground water.

11. The sources of ground water quality impairment are irrigation return water, domestic waste water, sea-water intrusion, connate water and mineralized zones, and saline deposits.

6. CONCLUSIONS

1. Under present use and replenishment, ground water quality in most basins will continue to deteriorate.

2. Surface water from Lopez Reservoir will help supply additional water in ground-water-deficient and poor-water-quality areas.

3. Though waste water discharges have a deleterious effect on ground water quality, their present volumes are small compared to total runoff.

4. Domestic waste water discharged to the ocean can be reclaimed and used as a new source of water.

5. Shallow wells extracting ground water from alluvium close to waste discharges are best for monitoring changes in ground water quality from waste water discharges.

6. Standards for water well construction and destruction will help prevent quality impairment from inadequately sealed wells.

7. Adoption of the preliminary water quality objectives in Table 19 will, in large measure, effect quality control of water resources for beneficial uses.

8. Surface- and ground-water-monitoring will detect changes in ground water quality, as well as show effectiveness of adopted objectives.

7. RECOMMENDATIONS

1. To protect the area's water resources, the water quality objectives in this report should be given careful consideration, together with other data submitted to the Board. Upon completion of the cooperative water management study by SLOCFCWCD and DWR, its results should be reviewed by the Board and the water quality objectives reappraised for the Arroyo Grande hydrologic subarea.

2. A monitoring program should be adopted to determine the effects of waste water discharges on the basins' ground water quality.

3. The County's monitoring for surface water quality and flow and ground water quality and level should be maintained and expanded should conditions require it.

4. As coastal communities grow, they should be encouraged to develop a public-sewer system to protect local ground water. They should also be encouraged to reclaim and reuse waste water, if feasible.

5. In areas where appropriate, water well standards should be established.

Appendix A

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APPENDIX B

IDENTIFICATION SYSTEMS, STANDARDS, AND CRITERIA USED IN REPORT

This appendix contains explanations of the sampling point identification system, areal designation system, and water quality criteria used in the preparation of this study and report.

SAMPLING POINT IDENTIFICATION SYSTEM

For convenience in recording the wells, springs, and surface waters from which samples have been taken in this investigation, the following system has been used:

Water Wells

Wells from which samples of water or measurements of depth to ground water have been obtained are assigned state well numbers. For these, wells are referenced by use of the United States Public Land Survey System. The well number consists of the township, range, and section numbers, a letter to indicate the 40-acre lot in which the well is located, and a number to identify the particular well in the 40-acre lot.

Sections are subdivided into 40-acre lots, as shown in Figure 2. For example, well 7N/34W-13N3 denotes the third well to be assigned a number in Lot N of Section 13 of Township 7 North, Range 34 West.

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Figure 2

Section lines have not generally been surveyed into areas included in the Spanish and Mexican land grants. So that the state well number system may be used in these areas, section lines have been projected across the ranchos on the standard United States Geological Survey quadrangle sheets. The projections of section lines used for well numbering in the Southern District are delineated on quadrangle sheets in the Los Angeles office of the Department of Water Resources. It is suggested that interested agencies and individuals desiring to project section lines for well numbering trace the projections from the Department's maps, so as to avoid conflicts and confusion in assigning well numbers.

The reader will occasionally notice a well which does not plot in the location indicated by its number. This occurs in instances where an erroneous number has been assigned and used for a relatively long time; generally, the erroneous number has been referred to in numerous reports. To avoid further confusion, the number has been continued in use.

Springs

Springs are assigned state well numbers on the same basis as are water wells, but the letter S is inserted immediately after the lot identification. For example, 7N/34W-5NS1 is the first spring assigned a number in Lot N of Section 5 of Township 7 North, Range 34 West.

Surface Waters

The system used for identifying surface water sampling points is entirely different from that used for wells or springs. For instance, a stream sampling point may be identified as 3-18-10.1. The first digit designates the water quality control region. The second digit denotes the stream system number within the region, beginning at the northern regional boundary. The remaining digits indicate the distance along the stream in miles from the mouth. The stream sampling point number given designates a point 10.1 miles above the mouth of the Santa Ynez River (the eighteenth major stream system from the northern boundary of the Central Coastal Regional Water Quality Control Board Region, which is Region 3).

For a branch, or tributary, of a major stream, the stream sampling point number is extended in the same manner. For example, the code number 3-18-1.1-7.9 designates a point on a primary tributary of the Santa Ynez River that is 7.9 miles above the confluence with the main stream. Points on secondary tributaries are identified in a similar manner.

AREAL DESIGNATION SYSTEM

A brief discussion and explanation of the areal designation system is presented in this appendix together with a short discussion of the relationship of a ground water basin to the system. For a comprehensive discussion of the areal designation system and a complete listing of the code numbers, the reader is referred to "Names and Areal Code Numbers of Hydrologic Areas in the Southern District", California Department of Water Resources, April 1964.

Drainage Province

The drainage province is a geographic area, generally equivalent in area and configuration to the water quality control board regions, as defined in Chapter 4, Division 7, of the California Water Code, except that all province boundaries are drainage divides.

Hydrologic Unit

A hydrologic unit is, in general, the total watershed area, including both water-bearing and nonwater-bearing formations, of a major stream system, such as the Santa Ynez River Valley.

Hydrologic Subunit

A hydrologic subunit is a major subdivision of a hydrologic unit and also includes water-bearing and nonwater-bearing formations. The subunit is best typified as a major tributary of a stream, a major valley, or a plain along a stream containing one or more ground water basins and having closely related geologic, hydrologic, and topographic characteristics.

Ground Water Basin

The ground water basin is defined as the area underlain by one or more permeable formations capable of furnishing a substantial water supply. It usually constitutes only a small portion of a hydrologic subarea because the nonwater-bearing hills and mountains of the surface drainage basin are excluded from the ground water basin. The boundaries of the ground water basin are generally determined by the extent of water-bearing materials, whereas the boundaries used in the areal designation system are based on drainage or watershed considerations.

WATER QUALITY CRITERIA

Many sets of guidelines by which the suitability of water may be judged have been suggested by authorities to codify the requirements for water quality for beneficial use. Included in these attempts at classification are several terms, some of which may appear strange or confusing to the reader; among them are standards, criteria, and objectives. This section attempts to define the jargon of the discipline as used in this report and to explain at least one of the many systems employed.

Definition of Terms

Before any discussion of water quality classification can be presented, it is necessary to explain several terms. These are:

Standards. Standards are those values established by some regulatory agency as obligatory limits on water quality. Perhaps the best-known of these are the United States Public Health Service Drinking Water Standards. Equally important to any discussion of water quality criteria in California are those standards established by the California Department of Public Health. The two sets of standards differ only slightly.

Criteria. As opposed to standards, criteria are guidelines for judging water for a particular use. They are more general than standards and are by no means obligatory. Criteria must be cited with reference to the use for which a particular water source is intended, as they can vary from place to place and with a given situation. The discussion here is only intended as a brief summary; for a more definitive work, the reader is referred to the excellent treatise by Dr. J. E. McKee and H. W. Wolfe, entitled "Water Quality Criteria", to mention only one of many books on the subject.

Objectives. Objectives refer to the level of water quality desired. They are used most often with respect to ground water in one basin or to surface water in a given stream, lake, bay, or area of the ocean. Generally, objectives are goals for water quality that are thought to be reasonable to maintain in a natural body of water, particularly one which receives some discharge of manmade waste. It might be noted that use of the term objectives usually implies that the objectives have been established by some regulatory agency. It should also be stressed that, for effective water quality control, objectives should only be established after due

deliberation and study, and they should be reexamined periodically. Objectives are dynamic and should be modified according to changes in environment.

Specific Uses

With the general terminology defined, the specific requirements for various uses can now be examined.

Domestic Use. Water used for drinking and culinary purposes should be clear, colorless, odorless, pleasant-tasting, and free from toxic salts. It should not contain excessive amounts of dissolved minerals and must be free from pathogenic organisms. In addition to these physical and bacteriological requirements, certain qualifications are generally placed on chemical quality, either as requirements by a regulatory agency or for comparative grading of different waters.

The 1962 Drinking Water Standards of the United States Public Health Service are legally applicable only to drinking water and water supply systems used by interstate carriers and others subject to Federal quarantine regulations. However, they have been adopted by the entire water works profession as minimum standards for control and are widely quoted.

The standards themselves, as promulgated, include discussions of bacteriological, physical, radiological, and chemical aspects. Only the chemical aspects will be discussed here. Table 21 presents the standards; the recommended values are those which should not be exceeded in a water supply if other more suitable supplies are or can be made available. The mandatory values are those which, if exceeded, constitute grounds for rejection of the supply.

The standards for fluoride are related to the annual average of maximum daily air temperatures (based on a minimum five-year record) and are presented in Table 22. The average concentration should not exceed the appropriate upper limit in the table. The presence of fluoride in average concentrations greater than twice the optimum values in Table 22 constitutes grounds for rejection of the supply. The standards further state that where fluoridation is practiced, the average fluoride concentration shall be kept within the upper and lower control limits in Table 22.

In California, the State Board of Public Health issues water supply permits in accordance with its "Interim Policy on Mineral Quality of Drinking Water", as adopted September 4, 1959, and in accordance with "Policy Statement and Resolutions by the State Board of Public Health with Respect to Fluoride

TABLE 21

UNITED STATES PUBLIC HEALTH SERVICE
DRINKING WATER STANDARDS, 1962

Substance	Recommended limits of concentrations, in mg/l	Mandatory limits of concentrations, in mg/l
Metheylene blue active substance (MBAS) as ABS (Revised by DWR)	0.5	--
Arsenic (As)	0.01	0.05
Barium (Ba)	--	1.0
Cadmium (Cd)	--	0.01
Carbon chloroform extract (CCE)	0.2	--
Chloride (Cl)	250	--
Chromium (hexavalent) (Cr^{+6})	--	0.05
Copper (Cu)	1.0	--
Cyanide (CN)	0.01	0.2
Fluoride (F)	**	**
Iron (Fe)	0.3	--
Lead (Pb)	--	0.05
Manganese (Mn)	0.05	--
Nitrate (NO_3)*	45	--
Phenols	0.001	--
Selenium (Se)	--	0.01
Silver (Ag)	--	0.05
Sulfate (SO_4)	250	--
Total dissolved solids (TDS)	500	--
Zinc (Zn)	5	--

*In areas in which the nitrate content of water is known to be in excess of the listed concentration, the public should be warned of the potential dangers of using the water for infant feeding.
**See Table 22.

TABLE 22

UNITED STATES PUBLIC HEALTH SERVICE
DRINKING WATER STANDARDS, 1962 -- FLUORIDE

Annual average of maximum daily air temperatures, in degrees Fahrenheit	Recommended control limits -- fluoride concentrations, in mg/l		
	Lower	Optimum	Upper
50.0 - 53.7	0.9	1.2	1.7
53.8 - 58.3	0.8	1.1	1.5
58.4 - 63.8	0.8	1.0	1.3
63.9 - 70.6	0.7	0.9	1.2
70.7 - 79.2	0.7	0.8	1.0
79.3 - 90.5	0.6	0.7	0.8

Ion Concentrations in Public Water Supplies", as approved August 22, 1958. The interim policy on mineral quality is presented as follows:

1. Water supply permits may be issued for drinking and culinary purposes only when the Public Health Service Drinking Water Standards of 1946[23] and the State Board of Public Health policy on fluorides are fully met.

2. In view of the wide variation in opinion in this field, the uncertainty as to the long-time health effects, the uncertainty of public attitude concerning various mineral levels, and the obvious need for further study, temporary permits may be issued for drinking water supplies failing to meet the Drinking Water Standards if the mineral constituents do not exceed those listed under the heading "Temporary Permit" in Table 23.

TABLE *23

UPPER LIMITS OF TOTAL SOLIDS AND SELECTED MINERALS IN DRINKING WATER AS DELIVERED TO THE CONSUMER

	Permit	Temporary Permit
Total Solids	500 (1,000)**	1,500 milligrams per liter
Sulphates	250 (500)**	600 " " "
Chlorides	250 (500)**	600 " " "
Magnesium	125 (125)	150 " " "

*This interim policy relates to potable water and is not intended to apply to a secondary mineralized water supply intended for domestic uses other than drinking and culinary purposes.

**Numbers in parentheses are maximum permissible, to be used only where no other more suitable waters are available in sufficient quantity for use in the system.

3. Exception: No temporary permit for drinking water supplies in which the mineral constituents exceed those listed under the heading "Temporary Permit" as set forth in #2 above may be issued unless the Board determines after public hearing:

   (a) The water to be supplied will not endanger the lives or health of human beings; and

23/ Author's Note: It is assumed in the absence of any later standards, that the 1962 edition of the Drinking Water Standards now applies.

(b) No other solution to meet the local situation is practicable and feasible; and

(c) The applicant is making diligent effort to develop, and has reasonable prospect of developing a supply of water which will warrant a regular permit within an acceptable period of time.

The burden of presenting evidence to fulfill the requirements as set forth in (a), (b), and (c) above is upon the applicant.

With respect to fluoride concentration, the State Board of Public Health has defined the maximum safe amounts of fluoride ion in relation to mean annual temperature as shown in Table 24.

TABLE 24

CALIFORNIA STATE BOARD OF PUBLIC HEALTH, MAXIMUM FLUORIDE ION CONCENTRATIONS

Mean annual temperature, in degrees Fahrenheit*	Mean monthly fluoride concentration, in milligrams per liter
50	1.5
60	1.0
70 - above	0.7

*For temperature values between those shown in the table, the fluoride ion concentrations may be obtained by interpolation.

The State Board of Public Health's policy on fluoride ion further states that:

1. The concentration of the fluoride ion in public water systems, whether added or naturally occurring, should not exceed the fluoride ion concentrations stated in the above table.

2. In the development of new public water systems used for drinking and culinary purposes the above fluoride ion concentrations shall not be exceeded.

3. In existing public water systems used for drinking and culinary purposes in which the above fluoride ion concentrations are exceeded, the fluoride ion concentration shall be reduced to a safe level by the use of methods acceptable to the State Department of Public Health. Exception: In cases where the Department determines

after investigation that it is not practicable and feasible to reduce the fluoride ion concentration in the entire supply to a safe level, special methods, acceptable to the State Department of Public Health, shall be provided by the applicant to furnish water of suitable fluoride ion concentration to all children 10 years of age or under.

Agricultural Use. The major criteria for judging the suitability of water for irrigation are chloride concentration, specific electrical conductance (presented as EC x 10^6 at 25° C), boron concentration, and percent sodium.

Chlorides are present in nearly all waters. They are not necessary to plant growth, and in high concentrations cause subnormal growing rates and burning of leaves.

Electrical conductance indicates the total dissolved solids, and furnishes an approximate indication of the overall mineral quality of the water. For most waters, the total dissolved solids, measured in milligrams per liter (mg/l) may be approximated by multiplying the electrical conductance by 0.7. As the amount of dissolved salts in irrigation water increases, the crop yields are reduced until at high concentrations (the value depending on the plant, type of soil, climatological condition, and amount of water applied) plants cannot survive.

Boron is never found in the free state but occurs as borates or boric acid. This element is essential in minor amounts for the growth of many but not all plants. It is, however, extremely toxic to most plants in higher concentrations. Limits of tolerance for most irrigated crops vary from 0.5 to 2.0 mg/l. Citrus crops, particularly lemons, are sensitive to boron in concentrations exceeding 0.5 mg/l.

The percent sodium, as reported in analyses, is 100 times the proportion of the sodium cation to the sum of all cations, all expressed in milliequivalents per liter (meq/l). Water containing a high percent sodium has an adverse effect upon the physical structure of soils that contain clay by dispersing the soil colloids. This, in turn, retards the movement of water and the leaching of salts, and makes the soils difficult to work. The effect of potassium in water is similar to that of sodium.

Because of the diverse climatological conditions, crops, soils, and irrigation practices in California, criteria which may be set up to establish the suitability of water for irrigation must necessarily be of a general nature, and judgment must be used in applying these criteria to individual cases.

Based on studies by Dr. L. D. Doneen, Professor of Water Science and Engineering at the University of California at Davis, three classes of irrigation water have been established:

Class 1 Excellent to Good. Regarded as safe and suitable for most plants under any condition of soil or climate.

Class 2 Good to Injurious. Regarded as possibly harmful for certain crops under certain conditions of soil or climate, particularly in the higher range of this class.

Class 3 Injurious to Unsatisfactory. Regarded as probably harmful to most crops and unsatisfactory for all but the most tolerant.

Limiting values for concentrations of chloride, boron, specific electrical conductance, and percent sodium for these three classes of irrigation water have been established and are shown in Table 25.

TABLE 25

CRITERIA FOR IRRIGATION WATERS

Factors	Class 1 - Excellent to good	Class 2 - Good to injurious	Class 3 - Injurious to unsatisfactory
Specific electrical conductance, ECx10^{0} at 25° C	Less than 1,000	1,000 - 3,000	More than 3,000
Boron, mg/l	Less than 0.5	0.5 - 2.0	More than 2.0
Chloride, mg/l	Less than 175	175 - 350	More than 350
Percent sodium	Less than 60	60 - 75	More than 75

Tables 26 and 27 were extracted from U. S. Department of Agriculture Technical Bulletin 962, "The Quality of Water for Irrigation Use, 1948", by L. V. Wilcox, and are presented to show the relative tolerance of crop plants to irrigation waters containing boron. Table 28 shows the relative tolerance of crop plants to salt.

TABLE 26

PERMISSIBLE LIMITS OF BORON FOR SEVERAL CLASSES OF IRRIGATION WATER

In milligrams per liter

Classes of water	Crop groups		
	Sensitive	Semitolerant	Tolerant
Excellent	< 0.33	< 0.67	< 1.00
Good	0.33 to 0.67	0.67 to 1.33	1.00 to 2.00
Permissible	0.67 to 1.00	1.33 to 2.00	2.00 to 3.00
Doubtful	1.00 to 1.25	2.00 to 2.50	3.00 to 3.75
Unsuitable	> 1.25	> 2.50	> 3.75

TABLE 27

RELATIVE TOLERANCE OF CROP PLANTS TO BORON

(In each group the plants first named are considered as being more sensitive and the last named more tolerant)

Sensitive to boron	Semitolerant to boron	Tolerant to boron
Lemon	Lima bean	Carrot
Grapefruit	Sweet potato	Lettuce
Avocado	Bell pepper	Cabbage
Orange	Tomato	Turnip
Thornless blackberry	Pumpkin	Onion
Apricot	Zinnia	Broadbean
Peach	Oat	Gladiolus
Cherry	Milo	Alfalfa
Persimmon	Corn	Garden beet
Kadota fig	Wheat	Mangel
Grape (Sultanina and Malaga)	Barley	Sugar beet
Apple	Olive	Palm (Phoenix cararienses)
Pear	Ragged robin rose	Date palm (P. dactylifera)
Plum	Field pea	Asparagus
American elm	Radish	Tamarix, or athel (Tamarix aphylla and T. gallica)
Navy bean	Sweet pea	
Jerusalem-artichoke	Pima cotton	
Persian (English walnut)	Acala cotton	
Black walnut	Potato	
Pecan	Sunflower (native)	

TABLE 28

RELATIVE TOLERANCE OF CROP PLANTS TO SALT*

Low salt tolerance	Medium salt tolerance	High salt tolerance
Pear	Pomegranate	Date palm
Apple	Fig	Salt grass
Orange	Olive	Bermuda grass
Grapefruit	Sweet corn	Rescue grass
Prune	Potato (White Rose)	Western wheatgrass
Plum	Carrot	Barley
Almond	Onion	Sugar beet
Apricot	Sudan grass	Rape
Peach	Alfalfa (California common)	Cotton
Strawberry	Rye	
Lemon	Wheat	
Avocado	Oats	
Field bean	Orchardgrass	
Radish	Rice	
Celery	Meadow fescue	
Meadow foxtail	Sorghum (grain)	
Red clover	Corn (field)	
	Flax	
	Sunflower	
	Castorbean	

*Based on Agriculture Handbook No. 60, U. S. Department of Agriculture. February 1954.

Industrial Water Use. Criteria of quality of water for industrial purposes are exceedingly difficult to ascertain. Industrial usage of water is so varied that a single set of criteria for chemical, physical, and bacterial requirements would be meaningless.

Total Hardness

For purposes of classification, in the Southern District of the Department of Water Resources, the following definitions of relative hardness are used: Waters containing 100 mg/l or less of total hardness (as $CaCO_3$) are considered "soft", those containing 101 to 200 mg/l are considered "moderately hard", and those with more than 200 mg/l are considered "very hard".

APPENDIX C

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY PH	FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
SAN CARPOFORO CREEK AT HIGHWAY 1 BRIDGE (25S/06E-16A)																				
02/07/58	5050	--	--	57	8.1	286	22	18	7	1	0	151	8	10	0.0	0.0	0.00	18	204	129
1115	5050	60 E	--		--	--	1.10	1.48	0.30	0.02	0.00	2.47	0.17	0.28	0.00				159	5
							38	51	10	1	0	85	6	10	0					
04/06/62	5050	0.50	--	59	8.2	372	30	24	9	1	0	201	10	14	0.0	0.1	0.10	16	226	174
1030	5050	40.0	--		--	--	1.50	1.97	0.39	0.02	0.00	3.29	0.21	0.39	0.00				203	9
							38	51	10	1	0	84	5	10	0					
01/22/64	5050	1.00	--	117	7.7	197	15	11	7	1	0	96	14	5	0.0	0.4	0.03	11	142	83
0945	5050	200	--		--	--	0.75	0.90	0.30	0.02	0.00	1.57	0.29	0.14	0.00				112	4
							38	46	15	1	0	78	14	7	0					
SAN CARPOFORO CR. AT OLD RANCH 1.5 MI ABOVE OCEAN (25S/06E-15J)																				
07/28/54	5050	--	--	69	8.0	473	63	30	15	1	0	248	46	15	0.0	0.0	0.10	--	218	281
1200	5050	5 E	--		--	--	3.14	2.47	0.65	0.02	0.00	4.06	0.96	0.42	0.00				292#	77
							50	39	10	0	0	75	18	8	0					
08/31/55	5050	--	--	80	8.1	490	43	33	10	1	0	269	30	14	2.3	0.7	0.08	--	267	241
1455	5050	--	--		--	--	2.14	2.71	0.43	0.02	0.00	4.41	0.62	0.39	0.04				267	22
							40	51	8	0	0	81	11	7	1					
ARROYO DE LA CRUZ CR.150 FT.BELOW HWY 1 BRIDGE (25S/06E-34W)																				
03/16/54	5050	--	--	--	7.4	153	15	10	5	2	0	84	11	8	0.6	0.1	0.05	--	90	79
1630	5050	--	--		--	--	0.75	0.82	0.22	0.05	0.00	1.38	0.23	0.22	0.01				93	18
							41	45	12	3	0	75	12	12	0					
02/07/58	5050	--	--	57	8.1	375	28	21	8	1	0	180	10	10	0.0	0.0	0.72	19	251	156
1100	5050	40 E	--		--	--	1.40	1.73	0.35	0.02	0.00	2.95	0.21	0.28	0.00				187	9
							40	49	10	1	0	86	6	8	0					
04/06/62	5050	1.00	--	61	8.2	435	38	28	11	1	0	233	29	15	0.0	0.1	0.13	16	264	210
1115	5050	37.0	--		--	--	1.90	2.30	0.48	0.02	0.00	3.82	0.60	0.42	0.00				253	19
							40	49	10	0	0	79	12	9	0					
01/22/64	5050	1.00	--	48	7.9	220	21	10	8	1	0	108	15	7	0.0	0.4	0.08	11	156	94
1030	5050	160	--		--	--	1.05	0.82	0.35	0.02	0.00	1.77	0.31	0.20	0.00				127	5
							47	37	15	1	0	78	14	9	0					
04/03/65	5050	--	--	58	8.3	360	35	19	11	1	6	183	13	12	0.0	0.1	0.17	--	212	166
0840	5050	40.0	--		--	--	1.75	1.56	0.48	0.02	0.20	3.00	0.27	0.34	0.00				188	5
							46	41	12	1	5	79	7	9	0					
ARROYO DE LA CRUZ NEAR SAN SIMEON (25S/06E-35A)																				
03/16/54	5050	59.30	--	--	7.6	139	18	10	3	1	0	110	14	2	5.4	0.1	0.08	--	138	86
1340	5050	--	--		--	--	0.90	0.82	0.13	0.02	0.00	1.80	0.29	0.06	0.09				108#	0
							40	44	7	1	0	81	13	2	4					
07/28/54	5050	--	--	71	7.9	495	50	28	13	1	0	259	27	18	2.5	0.0	0.15	--	272	240
1300	5050	0.5	--		--	--	2.49	2.30	0.56	0.02	0.00	4.24	0.56	0.51	0.04				267	28
							46	43	10	0	0	79	10	9	1					
BURNETT CREEK AT BURNETT CREEK DAM SITE (25S/07E-23N)																				
07/29/54	5050	--	--	80	8.1	505	39	40	9	1	0	315	11	14	0.0	0.0	0.30	--	287	262
1320	5050	0.2	--		--	--	1.95	3.29	0.39	0.02	0.00	5.16	0.23	0.39	0.00				270	4
							34	58	7	0	0	89	4	7	0					
PICO CREEK (27S/08E-06H)																				
09/01/55	5050	--	--	59	7.3	575	28	53	12	2	0	308	38	19	4.2	0.6	0.13	--	322	288
0900	5050	--	--		--	--	1.40	4.36	0.52	0.05	0.00	5.05	0.79	0.53	0.07				309	35
							22	69	8	1	0	78	12	8	1					
04/06/62	5050	--	--	62	8.4	490	40	33	15	1	2	244	30	16	0.0	0.1	0.16	19	384	236
1200	5050	200 E	--		--	--	1.99	2.71	0.65	0.02	0.07	4.00	0.62	0.45	0.00				277	32
							37	50	12	0	1	78	12	9	0					
SAN SIMEON CREEK (27S/08E-16D)																				
03/16/54	5050	--	--	--	7.9	218	19	13	7	1	0	110	13	4	6.5	0.2	0.10	--	160	101
1710	5050	175 E	--		--	--	0.95	1.07	0.30	0.02	0.00	1.80	0.27	0.11	0.10				118	11
							40	45	13	1	0	79	12	5	5					
07/10/54	5050	--	--	70	8.1	610	54	39	19	1	0	314	41	23	1.2	0.1	0.15	--	370	295
1455	5050	1 E	--		--	--	2.69	3.21	0.83	0.02	0.00	5.15	0.85	0.65	0.02				333	38
							40	47	12	0	0	77	13	10	0					
09/01/55	5050	--	--	59	8.0	943	60	37	118	1	0	479	115	32	3.3	0.5	0.11	--	--	302
0720	5050	PONDED	--		--	--	2.99	3.04	5.13	0.02	0.00	7.85	2.39	0.90	0.05				603	0
							27	27	46	0	0	70	21	8	0					
02/07/58	5050	--	--	56	8.1	361	30	22	10	1	0	183	19	10	1.1	0.0	0.20	16	252	165
1045	5050	25 E	--		--	--	1.50	1.81	0.43	0.02	0.00	3.00	0.39	0.28	0.02				208	15
							40	48	11	1	0	81	11	8	0					
02/09/62	5050	--	--	68	7.1	162	14	10	6	2	0	79	16	3	1.0	0.0	0.17	16	185	76
1700	5050	--	--		--	--	0.70	0.82	0.26	0.05	0.00	1.29	0.33	0.08	0.02				107#	11
							38	45	14	3	0	75	19	5	1					
01/22/64	5050	--	--	48	7.7	220	20	11	9	1	0	108	19	8	0.0	0.4	0.08	11	160	95
1115	5050	135	--		--	--	1.00	0.90	0.39	0.02	0.00	1.77	0.39	0.22	0.00				133	7
							43	39	17	1	0	74	16	9	0					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY FIELD PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE / VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
							SAN SIMEON CREEK (27S/08E-10A)													
03/16/54	5050	--	--	--	8.1	200	19	12	7	2	0	110	12	4	6.4	0.1	0.13	--	158	97
1700	5050	--	--		--	--	0.95	0.99	0.30	0.05	0.00	1.80	0.25	0.11	0.10				117	7
							41	43	13	2	0	79	11	5	4					
							SAN SIMEON CREEK (27S/08E-01M)													
04/02/65	5050	--	--	51	8.0	350	30	23	13	1	0	177	28	14	0.0	0.2	0.20	--	229	178
1145	5050	40.0	--		--	--	1.50	1.89	0.56	0.02	0.00	2.90	0.58	0.39	0.00				197	24
							38	47	14	1	0	75	15	10	0					
							SAN SIMEON CREEK (27S/08E-09M)													
04/03/65	5050	--	--	63	8.5	430	39	29	15	1	9	217	35	13	0.0	0.2	0.19	--	268	217
1000	5050	15.0	--		--	--	1.95	2.38	0.65	0.02	0.30	3.56	0.73	0.37	0.00				249	24
							39	48	13	0	6	72	15	7	0					
							SANTA ROSA CREEK (27S/08E-21R)													
09/30/58	5050	--	--	68	8.2	922	68	67	38	2	0	432	119	35	0.0	0.0	0.65	38	597	445
1230	5050	8 E	--		--	--	3.39	5.51	1.65	0.05	0.00	7.08	2.48	0.99	0.00				581	91
							32	52	16	0	0	67	23	9	0					
							SANTA ROSA CREEK (27S/08E-26D)													
08/27/53	5050	--	--	--	8.2	899	79	64	30	2	0	430	131	27	0.9	0.2	0.22	21	567	461
1410	5050	4 E	--		--	--	3.94	5.26	1.30	0.05	0.00	7.05	2.73	0.76	0.01				567	108
							37	50	12	0	0	67	26	7	0					
02/13/54	5050	2.25	--	--	7.5	333	35	20	15	2	0	177	27	16	4.3	0.3	0.03	--	253	170
1600	5050	270	--		--	--	1.75	1.64	0.65	0.05	0.00	2.90	0.56	0.45	0.07				207	24
							43	40	16	1	0	73	14	11	2					
07/18/54	5050	--	--	67	8.1	866	63	62	32	2	0	392	118	30	1.2	0.1	0.12	--	588	412
1250	5050	1 E	--		--	--	3.14	5.10	1.39	0.05	0.00	6.42	2.46	0.85	0.02				502	91
							32	53	14	0	0	66	25	9	0					
							SANTA ROSA CREEK (27S/08E-26B)													
09/01/55	5050	--	--	62	8.0	807	84	54	26	1	0	461	36	28	4.5	0.5	0.20	--	569	432
1015	5050	--	--		--	--	4.19	4.44	1.13	0.02	0.00	7.55	0.75	0.79	0.07				461#	54
							43	45	11	0	0	82	8	9	1					
02/07/58	5050	--	--	56	8.1	607	50	37	22	2	0	292	53	25	1.8	0.1	0.40	21	433	277
1000	5050	35 E	--		--	--	2.49	3.04	0.96	0.05	0.00	4.78	1.10	0.70	0.03				356	38
							38	46	15	1	0	72	17	11	0					
02/09/62	5050	--	--	73	7.1	224	20	14	10	2	0	110	21	10	3.0	0.2	0.06	18	180	187
1743	5050	--	--		--	--	1.00	1.15	0.43	0.05	0.00	1.93	0.44	0.28	0.05				157	11
							38	44	16	2	0	72	16	10	2					
01/22/64	5050	8.50	--	48	7.9	490	38	29	24	3	0	222	45	24	1.8	0.4	0.11	11	314	214
1200	5050	25.0	--		--	--	1.90	2.38	1.04	0.08	0.00	3.64	0.94	0.68	0.03				286	32
							35	44	19	1	0	69	18	13	0					
03/24/64	5050	--	--	--	8.3	910	48	60	44	2	7	348	97	52	0.0	0.2	0.16	10	636	367
--	5050	15.0	--		--	--	2.39	4.93	1.91	0.05	0.23	5.70	2.02	1.47	0.00				492	70
							26	53	21	0	2	60	21	16	0					
04/03/65	5050	--	--	65	8.5	810	74	51	37	2	12	362	88	42	2.0	0.1	0.22	--	526	395
1040	5050	5.0	--		--	--	3.69	4.19	1.61	0.05	0.40	5.93	1.83	1.18	0.03				487	78
							39	44	17	0	4	63	19	13	0					
							SANTA ROSA CREEK (27S/09E-20E)													
07/18/54	5050	--	--	69	7.9	810	72	51	25	2	0	371	113	21	6.2	0.1	0.10	--	563	390
1330	5050	1.0	--		--	--	3.59	4.19	1.09	0.05	0.00	6.08	2.35	0.59	0.10				473	85
							40	47	12	1	0	67	26	6	1					
							SANTA ROSA CREEK (27S/09E-16Q)													
02/09/62	5050	5.50	--	--	7.2	256	27	13	8	2	0	134	14	7	2.0	0.0	0.02	15	195	121
1600	5050	--	--		--	--	1.35	1.07	0.35	0.05	0.00	2.20	0.29	0.20	0.03				154	11
							48	38	12	2	0	81	11	7	1					
							SANTA ROSA CREEK (27S/09E-19H)													
03/23/65	5050	--	--	67	8.4	800	55	54	52	2	6	239	233	19	0.0	0.4	0.52	--	568	360
1700	5050	2.0	--		--	--	2.74	4.44	2.26	0.05	0.20	3.92	4.85	0.53	0.00				540	153
							29	47	24	0	2	41	51	6	0					
							SANTA ROSA CREEK (27S/09E-21B)													
04/02/65	5050	--	--	54	8.4	640	41	59	20	1	14	319	70	15	0.0	0.1	0.12	--	438	345
1220	5050	30.0	--		--	--	2.04	4.85	0.87	0.02	0.47	5.23	1.46	0.42	0.00				378	60
							26	62	11	0	6	69	19	6	0					
							VILLA CREEK (28S/09E-26N)													
06/15/55	5050	--	--	79	8.0	1100	75	58	74	3	0	427	55	135	2.7	0.2	0.31	--	662	426
1545	5050	--	--		--	--	3.74	4.77	3.22	0.08	0.00	7.00	1.14	3.81	0.04				614	76
							32	40	27	1	0	58	9	32	0					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY PH	FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
VILLA CREEK AT HWY 1 BRIDGE (28S/09E-26M)																				
02/07/58	5050	--	--	57	8.2	605	27	50	24	2	0	287	50	22	1.2	0.1	0.30	20	420	273
1200	5050	15 E	--		--	--	1.35	4.11	1.04	0.05	0.00	4.70	1.04	0.62	0.02				338	38
							20	63	16	1	0	74	16	10	0					
04/03/65	5050	--	--	63	8.4	680	39	49	40	2	18	283	60	39	0.0	0.2	0.59	--	420	299
1110	5050	5 E	--		--	--	1.95	4.03	1.74	0.05	0.60	4.64	1.25	1.10	0.00				387	37
							25	52	22	1	8	61	16	14	0					
CAYUCOS CREEK AT CAYUCOS (28S/10E-33H)																				
03/22/54	5050	--	--	--	8.3	577	36	40	30	2	5	288	29	35	1.2	0.2	0.10	--	300	254
1230	5050	15 E	--		--	--	1.80	3.29	1.30	0.05	0.17	4.72	0.60	0.99	0.02				321	10
							28	51	20	1	3	73	9	15	0					
02/07/58	5050	--	--	58	8.2	562	27	46	24	2	0	305	0	35	1.8	0.0	0.35	23	390	257
1210	5050	10 E	--		--	--	1.35	3.78	1.04	0.05	0.00	5.00	0.00	0.99	0.03				310	7
							22	61	17	1	0	63	0	16	0					
02/19/59	5050	--	--	59	8.0	33100	255	826	7589	274	0	217	1604	13792	10.3	0.7	4.80	9	27777	4036
--	5050	5 E	--		--	--	12.72	67.93	330.12	7.01	0.00	3.56	33.39	388.93	0.17				24472	3858
							3	16	79	2	0	1	8	91	0					
02/09/62	5050	--	--	--	7.2	200	14	12	10	2	0	97	15	12	4.0	0.0	0.11	18	150	84
1510	5050	--	--		--	--	0.70	0.99	0.43	0.05	0.00	1.59	0.31	0.34	0.06				135#	5
							32	45	20	2	0	69	13	15	3					
02/20/62	5050	--	--	--	7.8	387	26	26	18	2	0	183	10	27	8.7	0.3	0.10	21	219	172
1100	5050	--	--		--	--	1.30	2.14	0.78	0.05	0.00	3.00	0.21	0.76	0.14				230	22
							30	50	18	1	0	73	5	18	3					
04/04/65	5050	--	--	--	8.4	1340	54	78	122	5	34	511	21	162	9.0	0.2	0.37	--	948	456
--	5050	--	--		--	--	2.69	6.41	5.31	0.13	1.13	8.37	0.44	4.57	0.14				737	0
							18	44	36	1	8	57	3	31	1					
OLD CREEK NEAR CAYUCOS (29S/10E-03E)																				
03/22/54	5050	--	--	--	8.3	648	67	33	30	1	5	301	80	23	3.7	0.2	0.05	--	360	303
1215	5050	20 E	--		--	--	3.34	2.71	1.30	0.02	0.17	4.93	1.66	0.65	0.06				391	48
							45	37	18	0	2	66	22	9	1					
OLD CREEK (28S/10E-34L)																				
02/07/58	5050	--	--	59	8.0	696	110	12	26	2	0	317	86	24	2.3	0.2	0.40	22	483	324
1225	5050	20 E	--		--	--	5.49	0.99	1.13	0.05	0.00	5.19	1.79	0.68	0.04				441	64
							72	13	15	1	0	67	23	9	0					
04/09/58	5050	--	--	64	8.3	694	72	36	26	2	0	324	80	24	4.4	0.2	0.36	26	481	328
1428	5050	70 E	--		--	--	3.59	2.96	1.13	0.05	0.00	5.31	1.66	0.68	0.07				431	62
							46	38	15	1	0	69	22	9	1					
09/30/58	5050	--	--	68	7.8	1287	66	57	43	2	0	421	85	40	2.0	0.2	0.40	32	876	399
1030	5050	5 E	--		--	--	3.29	4.69	1.87	0.05	0.00	6.90	1.77	1.30	0.03				541	54
							33	47	19	0	0	69	18	13	0					
02/19/59	5050	--	--	59	8.4	781	70	49	32	2	5	354	86	43	5.6	0.2	0.15	22	493	376
--	5050	10 E	--		--	--	3.49	4.03	1.39	0.05	0.17	5.80	1.79	1.21	0.09				490	78
							39	45	15	1	2	64	20	13	1					
OLD CREEK (28S/10E-26J)																				
02/04/58	5050	92.60	--	55	7.6	314	40	10	14	3	0	163	23	7	5.0	0.4	0.04	25	250	141
0830	5050	113	--		--	--	1.99	0.82	0.61	0.08	0.00	2.67	0.48	0.20	0.08				208	7
							57	23	17	2	0	78	14	6	2					
02/05/58	5050	91.80	--	60	8.2	496	51	24	23	2	19	185	59	18	2.0	0.3	0.04	30	350	226
--	5050	39.0	--		--	--	2.54	1.97	1	0.05	0.63	3.03	1.23	0.51	0.03				320	43
							46	35	18	1	12	56	23	9	1					
02/07/58	5050	91.60	--	60	8.2	605	53	35	28	2	19	224	84	21	2.0	0.4	0.00	30	430	276
--	5050	24.0	--		--	--	2.64	2.88	1.22	0.05	0.63	3.67	1.75	0.59	0.03				385	61
							39	42	18	1	9	55	26	9	0					
02/11/58	5050	91.40	--	56	8.1	660	48	44	31	1	0	261	97	25	1.5	0.2	0.00	30	450	301
--	5050	16.0	--		--	--	2.39	3.62	1.35	0.02	0.00	4.60	2.02	0.70	0.02				416	70
							32	49	18	0	0	63	27	10	0					
02/20/58	5050	--	--	--	8.0	573	60	33	25	2	0	293	72	21	2.0	0.3	0.02	30	435	286
1000	5050	33.0	--		--	--	2.99	2.71	1.09	0.05	0.00	4.80	1.50	0.59	0.03				390	45
							44	40	16	1	0	69	22	8	0					
03/20/58	5050	92.10	--	--	8.3	580	62	31	24	2	19	251	65	19	3.0	0.3	0.00	30	410	282
0915	5050	121	--		--	--	3.09	2.55	1.04	0.05	0.63	4.11	1.35	0.53	0.05				379	45
							46	38	15	1	9	61	20	8	1					
02/09/62	5050	--	--	--	6.9	237	29	10	12	4	0	115	27	15	0.0	0.0	0.13	20	190	114
1345	5050	--	--		--	--	1.45	0.82	0.52	0.10	0.00	1.86	0.56	0.42	0.00				174	19
							50	28	18	3	0	66	20	15	0					
05/01/62	5050	--	6.0	68	8.5	654	43	41	32	1	11	266	77	26	1.5	0.4	0.13	27	425	276
1730	5050	--	87		7.5	--	2.14	3.37	1.39	0.02	0.37	4.36	1.60	0.73	0.02				391	40
							31	49	20	0	5	61	23	10	0					
04/04/65	5050	--	--	56	8.4	740	55	51	35	2	7	370	62	28	3.0	0.1	0.13	--	470	347
1430	5050	5 E	--		--	--	2.74	4.19	1.52	0.05	0.23	6.06	1.29	0.79	0.05				426	32
							32	49	18	1	3	72	15	9	1					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY FIELD PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH NCH
							COTTONTAIL CREEK (28S/10E-27A)													
02/09/62	5050	--	--	--	--	--	33	10	9	3	0	141	15	7	3.0	0.1	0.01	12	205	123
1600	5050	--	--		--	--	1.65	0.82	0.39	0.08	0.00	2.31	0.31	0.20	0.05				162	8
							56	28	13	3	0	80	11	7	2					
04/25/62	5050	--	--	68	8.2	734	61	47	34	1	0	324	96	31	2.0	0.5	0.08	20	377	346
1210	5050	1 E	--		--	--	3.04	3.86	1.48	0.02	0.00	5.31	2.00	0.87	0.03				452	80
							36	46	18	0	0	65	24	11	0					
							TORO CREEK AT HWY 1 BRIDGE (29S/10E-11P)													
02/10/62	5050	--	--	70	7.0	460	21	18	47	4	0	111	36	72	4.0	0.2	0.53	20	315	126
1700	5050	--	--		--	--	1.05	1.48	2.04	0.10	0.00	1.82	0.75	2.03	0.06				278	35
							22	32	44	2	0	39	16	43	1					
							TORO CREEK (29S/10E-11K)													
08/27/53	5050	--	--	70	8.3	901	60	66	40	1	10	388	60	76	0.2	0.1	0.10	30	534	421
1320	5050	2.0	--		--	--	2.99	5.43	1.74	0.02	0.33	6.36	1.25	2.14	0.00				535	86
							29	53	17	0	3	63	12	21	0					
03/22/54	5050	1.26	--	--	8.0	577	45	38	21	1	0	275	55	27	1.9	0.1	0.05	--	334	269
1130	5050	18.7	--		--	--	2.24	3.12	0.91	0.02	0.00	4.51	1.14	0.76	0.03				325	43
							36	49	14	0	0	70	18	12	0					
09/01/55	5050	--	--	67	8.2	1008	66	69	46	1	0	452	54	92	3.3	0.4	0.08	--	561	449
1525	5050	--	--		--	--	3.29	5.67	2	0.02	0.00	7.41	1.12	2.59	0.05				554	78
							30	52	18	0	0	66	10	23	0					
02/07/58	5050	--	--	56	8.0	606	56	33	18	1	0	272	56	2	2.7	0.1	0.40	24	420	276
1235	5050	25 E	--		--	--	2.79	2.71	0.78	0.02	0.00	4.46	1.16	0.06	0.04				327#	52
							44	43	12	0	0	78	20	1	1					
04/04/65	5050	--	--	56	8.4	840	52	65	37	2	12	388	54	56	1.0	0.1	0.15	--	536	397
1540	5050	10 E	--		--	--	2.59	5.34	1.61	0.05	0.40	6.36	1.12	1.58	0.02				470	59
							27	56	17	0	4	67	12	17	0					
							MORRO CREEK NEAR MORRO BAY (29S/10E-25F)													
03/30/54	5050	--	--	52	7.7	325	28	17	15	1	0	156	23	15	3.7	0.1	0.10	--	175	140
1420	5050	200 E	--		--	--	1.40	1.40	0.65	0.02	0.00	2.56	0.48	0.42	0.06				180	12
							40	40	19	1	0	73	14	12	2					
07/18/54	5050	--	--	63	8.0	1520	72	116	78	1	0	552	151	152	15.5	0.0	0.18	--	1164	657
1130	5050	.01	--		--	--	3.59	9.54	3.39	0.02	0.00	9.05	3.14	4.29	0.25				858	204
							22	58	20	0	0	54	19	26	1					
02/07/58	5050	--	--	56	8.1	411	26	30	15	1	0	198	25	20	1.8	0.0	0.15	22	285	188
1245	5050	25 E	--		--	--	1.30	2.47	0.65	0.02	0.00	3.24	0.52	0.56	0.03				239	26
							29	55	15	1	0	74	12	13	1					
02/19/59	5050	--	--	55	8.0	725	50	54	30	1	0	345	52	43	5.0	0.0	0.11	23	432	347
1015	5050	5 E	--		--	--	2.49	4.44	1.30	0.02	0.00	5.65	1.08	1.21	0.08				428	64
							30	54	16	0	0	70	13	15	1					
02/10/62	5050	--	--	70	7.0	223	16	12	14	2	0	92	21	14	5.0	0.0	0.15	20	165	89
1715	5050	--	--		--	--	0.80	0.99	0.61	0.05	0.00	1.51	0.44	0.39	0.08				150	14
							33	40	25	2	0	62	18	16	3					
02/20/62	5050	3.00	--	--	7.9	331	22	23	17	2	0	146	31	21	5.6	0.3	0.30	21	190	150
0900	5050	126	--		--	--	1.10	1.89	0.74	0.05	0.00	2.39	0.64	0.59	0.09				215	30
							29	50	20	1	0	64	17	16	2					
01/22/64	5050	--	--	48	7.4	535	38	34	23	2	0	249	41	21	4.0	0.2	0.08	14	310	235
1735	5050	14.0	--		--	--	1.90	2.80	1	0.05	0.00	4.08	0.85	0.59	0.06				300	31
							33	49	17	1	0	73	15	11	1					
04/04/65	5050	--	--	56	8.5	700	37	56	28	1	18	325	34	32	0.0	0.1	0.15	--	420	323
1610	5050	3 E	--		--	--	1.85	4.60	1.22	0.02	0.60	5.33	0.71	0.90	0.00				366	26
							24	60	16	0	8	71	9	12	0					
01/06/66	5050	--	--	--	7.3	327	22	19	17	3	0	150	18	15	3.0	0.5	0.06	--	200	133
1620	5050	420	--		--	--	1.10	1.56	0.74	0.08	0.00	2.46	0.37	0.42	0.05				172#	10
							32	45	21	2	0	74	11	13	1					
							MORRO CREEK (29S/11E-01N)													
03/30/54	5050	--	--	52	8.1	276	27	14	11	1	0	134	28	7	4.8	0.2	0.05	--	192	125
1400	5050	100 E	--		--	--	1.35	1.15	0.48	0.02	0.00	2.20	0.58	0.20	0.08				159	15
							45	38	16	1	0	72	19	6	2					
07/18/59	5050	--	--	60	8.3	496	50	26	19	1	0	251	31	20	2.5	0.1	0.00	--	292	232
1115	5050	0.4	--		--	--	2.49	2.14	0.83	0.02	0.00	4.11	0.64	0.56	0.04				273	26
							45	39	15	0	0	77	12	10	1					
							SAN BERNARDO CREEK (29S/11E-23M)													
03/30/54	5050	0.55	--	56	8.1	470	26	39	18	2	0	244	27	21	10.0	0.2	0.02	--	300	225
1520	5050	5 E	--		--	--	1.30	3.21	0.78	0.05	0.00	4.00	0.56	0.59	0.16				264	25
							24	60	15	1	0	75	11	11	3					
02/07/58	5050	--	--	58	8.2	766	44	73	24	2	0	430	53	40	3.6	0.2	0.20	31	531	410
1315	5050	10 E	--		--	--	2.19	6.00	1.04	0.05	0.00	7.05	1.10	1.13	0.06				483	58
							24	65	11	0	0	75	12	12	1					
02/09/62	5050	--	--	--	7.2	352	29	24	10	3	0	211	11	8	0.0	0.3	0.34	26	270	171
1235	5050	--	--		--	--	1.45	1.97	0.43	0.08	0.00	3.46	0.23	0.22	0.00				216	0
							37	50	11	2	0	88	6	6	0					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY FIELD PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
SAN BERNARDO CREEK (29S/11E-23M)																				
02/10/62	5050	1.95	--	--	7.4	272	18	19	12	2	0	138	21	10	4.0	0.3	0.25	20	205	123
1055	5050	--	--		--	--	0.90	1.56	0.52	0.05	0.00	2.26	0.44	0.28	0.06				175	10
							30	51	17	2	0	74	14	9	2					
SAN BERNARDO CREEK (29S/11E-33E)																				
02/20/62	5050	--	--	--	7.5	387	28	27	13	2	0	186	24	20	9.9	0.2	0.07	20	229	181
0830	5050	--	--		--	--	1.40	2.22	0.56	0.05	0.00	3.05	0.50	0.56	0.16				236	28
							33	32	13	1	0	71	12	13	4					
03/23/64	5050	--	--	53	8.1	803	44	75	28	6	0	466	42	42	3.0	0.4	0.10	31	490	418
1135	5050	2 E	--		--	--	2.19	6.17	1.22	0.15	0.00	7.64	0.87	1.18	0.05				501	36
							22	63	12	2	0	78	9	12	0					
SAN LUISITO CREEK (29S/11E-34P)																				
03/30/54	5050	1.53	--	54	8.0	381	24	28	16	3	0	198	18	18	8.0	0.2	0.07	--	256	175
1315	5050	20 E	--		--	--	1.20	2.30	0.69	0.08	0.00	3.24	0.37	0.51	0.13				213	13
							28	54	16	2	0	76	9	12	3					
07/18/54	5050	--	--	63	8.4	778	98	35	25	1	6	419	33	35	11.8	0.1	0.00	0	481	389
1020	5050	0.1	--		--	--	4.89	2.88	1.09	0.02	0.20	6.87	0.69	0.99	0.19				451	35
							55	32	12	0	2	77	8	11	2					
03/16/56	5050	--	--	--	8.3	679	45	55	15	1	6	399	37	6	0.0	0.0	0.00	--	400	339
1200	5050	1 E	--		--	--	2.24	4.52	0.65	0.02	0.20	6.54	0.77	0.17	0.00				362	1
							30	61	9	0	3	85	10	2	0					
02/07/58	5050	0.24	--	56	8.2	703	39	60	20	2	0	366	34	38	2.0	0.2	0.04	30	489	344
1320	5050	12 E	--		--	--	1.95	4.93	0.87	0.05	0.00	6.00	0.71	1.07	0.03				406	44
							25	63	11	1	0	77	9	14	0					
02/20/62	5050	--	--	--	8.1	424	32	43	15	2	0	250	33	28	8.1	0.3	0.07	35	339	257
0815	5050	30.0	--		--	--	1.60	3.54	0.65	0.05	0.00	4.10	0.69	0.79	0.13				320	52
							27	61	11	1	0	72	12	14	2					
03/09/62	5050	--	--	--	7.1	225	24	9	13	3	0	112	7	14	2.5	0.4	0.06	24	200	97
1220	5050	480 E	--		--	--	1.20	0.74	0.56	0.08	0.00	1.83	0.14	0.39	0.04				152#	5
							46	29	22	3	0	76	6	16	2					
PENNINGTON CREEK (29S/12E-32M)																				
02/02/56	5050	--	--	50	8.2	668	26	84	11	1	12	432	25	21	1.8	--	0.08	--	445	411
1600	5050	1.2	--		--	--	1.30	6.91	0.48	0.02	0.40	7.08	0.52	0.59	0.03				395	36
							15	79	5	0	5	82	6	7	0					
CHORRO CREEK (30S/11E-03D)																				
08/27/53	5050	--	--	72	8.3	1080	37	102	48	4	12	518	56	77	9.9	0.3	0.11	26	627	512
1130	5050	--	--		--	--	1.85	8.39	2.09	0.10	0.40	8.49	1.16	2.17	0.16				627	67
							15	67	17	1	3	68	9	17	1					
CHORRO CREEK (30S/12E-17D)																				
02/19/62	5050	--	--	--	8.0	397	24	35	10	1	0	207	24	16	9.3	0.2	0.08	28	238	204
1700	5050	55.0	--		--	--	1.20	2.88	0.43	0.02	0.00	3.39	0.50	0.45	0.15				250	34
							26	63	10	1	0	75	11	10	3					
12/29/64	5050	--	--	--	7.8	563	32	39	27	1	0	249	42	39	6.0	0.4	0.14	--	320	240
1530	5050	30.0	--		--	--	1.60	3.21	1.17	0.02	0.00	4.08	0.87	1.10	0.10				309	36
							27	53	20	0	0	66	14	18	2					
04/04/65	5050	--	--	56	8.4	925	59	79	34	5	14	511	27	52	4.0	0.1	0.09	--	616	472
1640	5050	4 E	--		--	--	2.94	6.50	1.48	0.13	0.47	8.37	0.56	1.47	0.06				526	30
							27	59	13	1	4	77	5	13	1					
CHORRO CREEK (29S/11E-31R)																				
03/30/54	5050	--	--	55	7.9	356	18	30	18	3	0	192	17	21	8.4	0.2	0.08	--	253	168
1330	5050	150 E	--		--	--	0.90	2.47	0.78	0.08	0.00	3.15	0.35	0.59	0.13				211	11
							21	58	18	2	0	74	8	14	3					
02/07/58	5050	--	--	64	8.2	1026	34	103	37	2	0	519	50	70	2.4	0.0	0.03	28	704	509
1305	5050	4 E	--		--	--	1.70	8.47	1.61	0.05	0.00	8.51	1.04	1.97	0.04				582	83
							14	72	14	0	0	74	9	17	0					
02/20/62	5050	--	--	--	7.3	347	22	27	23	2	0	165	24	35	6.2	0.2	0.06	24	234	166
1200	5050	560	--		--	--	1.10	2.22	1	0.05	0.00	2.70	0.50	0.99	0.10				245	31
							25	51	23	1	0	63	12	23	2					
02/07/63	5050	--	--	65	9.1	916	43	86	50	2	62	371	54	70	0.5	0.5	0.14	25	560	461
1430	5050	15 E	--		--	--	2.14	7.07	2.17	0.05	2.07	6.08	1.12	1.97	0.01				576	54
							19	62	19	0	18	54	10	17	0					
01/06/65	5050	--	--	--	7.4	476	18	27	33	4	0	184	14	49	1.0	0.3	0.07	--	270	156
1600	5050	960	--		--	--	0.90	2.22	1.43	0.10	0.00	3.01	0.29	1.38	0.02				237	5
							19	48	31	2	0	64	6	29	0					
CHORRO CREEK (30S/12E-09A)																				
07/31/59	5050	--	--	--	8.1	690	19	83	12	1	0	464	6	19	0.5	0.2	0.04	40	385	389
1345	5050	1.0	--		--	--	0.95	6.82	0.52	0.02	0.00	7.60	0.12	0.53	0.01				409	8
							11	82	6	0	0	92	1	6	0					
07/31/59	5050	--	--	--	7.7	700	16	84	12	1	0	455	0	22	0.0	0.0	0.00	48	540	384
1346	5050	1.0	--		--	--	0.80	6.91	0.52	0.02	0.00	7.46	0.00	0.62	0.00				407	12
							10	84	6	0	0	92	0	8	0					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY PH	FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
CHORRO CREEK (30S/12E-18A)																				
03/23/64	5050	--	--	49	7.6	755	34	64	42	1	0	390	59	45	1.0	0.4	0.20	25	460	348
1050	5050	6.0	--		--	--	1.70	5.26	1.83	0.02	0.00	6.39	1.23	1.27	0.02				464	28
							19	60	21	0	0	72	14	14	0					
DAIRY CREEK (30S/12E-06J)																				
02/02/56	5050	--	--	54	8.2	687	44	69	16	1	12	409	37	26	2.3	--	0.08	--	465	394
1530	5050	1.6	--		--	--	2.19	5.67	0.69	0.02	0.40	6.70	0.77	0.73	0.04				409	38
							25	66	8	0	5	77	9	8	0					
ISLAY CREEK (30S/10E-35E)																				
01/30/64	5050	--	--	55	7.9	1100	102	59	62	3	0	479	148	67	0.5	0.4	0.12	18	718	497
1400	5050	--	--		--	--	5.09	4.85	2.70	0.08	0.00	7.85	3.08	1.89	0.01				696	165
							40	38	21	1	0	61	24	15	0					
01/30/64	5050	--	--	--	8.4	960	92	58	44	3	11	451	110	45	0.0	0.4	0.08	18	626	468
1530	5050	1.5	--		--	--	4.59	4.77	1.91	0.08	0.37	7.39	2.29	1.27	0.00				604	80
							40	42	17	1	3	65	20	11	0					
COON CREEK (31S/10E-03K)																				
01/30/64	5050	--	--	--	8.0	775	83	47	24	2	0	391	86	35	0.0	0.2	0.03	19	494	401
1600	5050	1.2	--		--	--	4.14	3.86	1.04	0.05	0.00	6.41	1.79	0.99	0.00				489	86
							45	42	11	1	0	70	19	11	0					
LOS OSOS CREEK (30S/11E-20B)																				
03/30/54	5050	--	--	54	8.0	344	28	22	16	3	0	178	24	20	2.5	0.2	0.35	--	182	168
1445	5050	30 E	--		--	--	1.40	1.81	0.69	0.08	0.00	2.92	0.50	0.56	0.04				204	14
							35	45	17	2	0	72	12	14	1					
02/07/58	5050	--	--	58	8.2	576	30	49	22	2	0	296	30	35	2.1	0.0	0.15	26	395	277
1335	5050	10 E	--		--	--	1.50	4.03	0.96	0.05	0.00	4.85	0.62	0.99	0.03				342	34
							23	62	15	1	0	75	10	15	0					
01/06/65	5050	--	--	--	7.0	201	11	14	9	4	0	104	13	8	2.0	0.2	0.04	--	130	85
1530	5050	640	--		--	--	0.55	1.15	0.39	0.10	0.00	1.70	0.27	0.22	0.03				113	0
							25	52	18	5	0	76	12	10	1					
SEE CREEK (31S/12E-29P)																				
02/09/62	5050	--	--	66	7.1	320	29	16	10	4	0	122	19	27	1.0	0.0	0.11	17	225	138
1610	5050	80.0	--		--	--	1.45	1.31	0.43	0.10	0.00	2.00	0.39	0.76	0.02				184	38
							44	40	13	3	0	63	12	24	0					
01/21/64	5050	--	--	54	8.4	740	82	49	29	2	19	390	83	26	0.0	0.2	0.43	21	508	496
1425	5050	4.0	--		--	--	4.09	4.03	1.26	0.05	0.63	6.39	1.73	0.73	0.00				504	55
							43	43	13	0	7	67	18	8	0					
02/06/65	5050	--	--	56	8.1	744	64	52	27	2	0	387	77	25	1.5	0.4	0.20	27	514	374
1230	5050	10 E	--		--	--	3.19	4.28	1.17	0.05	0.00	6.34	1.60	0.70	0.02				467	56
							37	49	13	1	0	73	18	8	0					
SEE CREEK (31S/12E-32F)																				
01/06/65	5050	--	--	--	7.4	290	28	15	8	3	0	142	22	8	1.0	0.3	0.04	--	160	132
1430	5050	240	--		--	--	1.40	1.23	0.35	0.08	0.00	2.33	0.46	0.22	0.02				156	15
							46	40	11	2	0	77	15	7	0					
SAN LUIS OBISPO CREEK (31S/12E-33E)																				
08/27/53	5050	--	--	68	8.2	1400	81	103	77	2	0	582	88	154	2.4	0.3	0.16	--	822	626
--	5050	2 E	--		--	--	4.04	8.47	3.35	0.05	0.00	9.54	1.83	4.34	0.04				794	149
							25	53	21	0	0	60	12	28	0					
12/24/53	5050	--	--	--	8.0	1261	80	93	83	3	0	533	81	160	25.4	0.5	0.20	--	856	582
0940	5050	--	--		--	--	3.99	7.65	3.61	0.08	0.00	8.73	1.69	4.51	0.41				789	145
							26	50	23	0	0	57	11	29	3					
07/18/54	5050	--	--	66	8.3	1420	85	104	72	2	0	635	84	133	11.2	0.2	0.00	--	986	640
0945	5050	1 E	--		--	--	4.24	8.55	3.13	0.05	0.00	10.41	1.75	3.75	0.18				804	119
							26	53	20	0	0	65	11	23	1					
09/21/55	5050	--	--	60	8.3	1405	84	74	111	2	0	583	84	160	7.4	0.1	0.27	--	895	514
1045	5050	5 E	--		--	--	4.19	6.08	4.83	0.05	0.00	9.55	1.75	4.51	0.12				810#	36
							28	40	32	0	0	60	11	28	1					
02/06/58	5050	--	--	56	7.6	795	42	62	40	3	0	348	62	63	5.9	0.2	0.65	34	555	360
1230	5050	50 E	--		--	--	2.09	5.10	1.74	0.08	0.00	5.70	1.29	1.78	0.09				484	75
							23	57	19	1	0	64	15	20	1					
02/09/62	5050	--	--	66	6.5	252	19	13	11	4	0	99	17	24	0.0	0.0	0.27	15	180	101
1500	5050	--	--		--	--	0.95	1.07	0.48	0.10	0.00	1.62	0.35	0.68	0.00				152	20
							36	41	18	4	0	61	13	25	0					
02/01/63	5050	--	--	--	7.3	380	24	27	20	4	0	151	52	27	10.0	0.4	0.00	22	278	171
1225	5050	300 E	--		--	--	1.20	2.22	0.87	0.10	0.00	2.47	1.08	0.76	0.16				261	47
							27	51	20	2	0	55	24	17	4					
07/03/64	5050	--	--	52	8.4	740	50	43	49	4	3	250	70	78	20.0	0.8	0.07	16	492	302
1410	5050	10.0	--		--	--	2.49	3.54	2.13	0.10	0.10	4.10	1.46	2.20	0.32				457	92
							30	43	26	1	1	50	18	27	4					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY FIELD PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER: F	B	SIO2	TDS SUM	TH NCH
SAN LUIS OBISPO CREEK (31S/12E-33E)																				
01/06/65	5050	--	--	--	7.3	398	23	24	20	4	0	163	29	27	5.0	0.4	0.04	--	240	156
1420	5050	720	--		--	--	1.15	1.97	0.87	0.10	0.00	2.67	0.42	0.76	0.08				204	22
							28	48	21	2	0	66	11	19	2					
SAN LUIS OBISPO CREEK (31S/12E-16Q)																				
12/24/53	5050	--	--	--	7.4	1261	76	90	84	4	0	485	86	160	38.5	0.5	0.11	--	864	560
0925	5050	--	--		--	--	3.79	7.40	3.65	0.10	0.00	7.95	1.79	4.51	0.62				778	162
							25	49	24	1	0	53	12	30	4					
SAN LUIS OBISPO CREEK (31S/12E-16G)																				
12/24/53	5050	--	--	--	7.7	1224	76	88	83	4	0	474	90	156	40.2	0.6	0.10	--	829	552
0905	5050	--	--		--	--	3.79	7.24	3.61	0.10	0.00	7.77	1.87	4.40	0.65				771	163
							26	49	24	1	0	53	13	30	4					
SAN LUIS OBISPO CREEK (30S/12E-34G)																				
02/06/58	5050	--	--	58	7.7	662	42	53	23	2	0	323	53	30	4.3	0.2	0.40	29	456	323
1300	5050	25 E	--		--	--	2.09	4.36	1	0.05	0.00	5.29	1.10	0.85	0.07				396	58
							28	58	13	1	0	72	15	12	1					
SAN LUIS OBISPO CREEK (30S/12E-34H)																				
08/12/54	5050	--	--	64	8.2	970	64	75	36	2	0	468	82	47	13.6	0.1	0.15	--	627	468
0845	5050	1.0	--		--	--	3.19	6.17	1.56	0.05	0.00	7.67	1.71	1.32	0.22				550	85
							29	56	14	0	0	70	16	12	2					
STEINER CREEK (30S/12E-11M)																				
06/18/51	5050	--	--	--	--	--	34	62	16	--	0	380	29	21	0.0	--	0.00	--	416	340
1530	5050	0.3	--		--	--	1.70	5.10	0.69		0.00	6.23	0.60	0.59	0.00				349	28
							23	68	9		0	84	8	8	0					
PISMO CREEK (31S/13E-31J)																				
01/05/60	5050	--	--	--	8.1	1260	99	86	68	1	0	576	154	69	0.4	0.2	0.17	40	805	601
1400	5050	--	--		--	--	4.94	7.07	2.96	0.02	0.00	9.44	3.21	1.94	0.01				801	129
							33	47	20	0	0	65	22	13	0					
PISMO CREEK (31S/13E-31Q)																				
01/05/60	5050	--	--	--	8.0	1250	100	83	68	1	0	581	145	70	0.0	0.2	0.17	30	795	591
1300	5050	--	--		--	--	4.99	6.82	2.96	0.02	0.00	9.52	3.02	1.97	0.00				783	115
							34	46	20	0	0	66	21	14	0					
08/28/63	5050	--	--	63	8.1	1150	106	71	64	2	0	642	123	69	0.0	0.2	0.19	31	772	557
1500	5050	--	--		--	--	5.29	5.84	2.78	0.05	0.00	10.52	2.56	1.94	0.00				783#	30
							38	42	20	0	0	70	17	13	0					
PISMO CREEK (31S/13E-32E)																				
04/16/52	5050	--	--	66	8.4	774	45	63	30	1	8	364	132	28	5.0	0.3	0.10	--	493	372
1500	5050	10.0	--		--	--	2.24	5.18	1.30	0.02	0.27	4.98	2.75	0.79	0.08				462	109
							26	59	15	0	3	56	31	9	1					
07/14/52	5050	--	--	--	8.1	1290	100	90	50	2	0	558	198	54	5.0	0.4	0.14	--	816	620
1100	5050	--	--		--	--	4.99	7.40	2.17	0.05	0.00	9.14	4.12	1.52	0.08				774	162
							34	51	15	0	0	61	28	10	0					
PISMO CREEK (31S/13E-32D)																				
11/24/52	5050	--	--	54	8.2	1127	105	81	46	2	0	556	158	49	11.4	0.5	0.14	--	756	595
1530	5050	1 E	--		--	--	5.24	6.66	2	0.05	0.00	9.11	3.29	1.38	0.18				727	139
							37	48	14	0	0	65	23	10	1					
03/24/53	5050	--	--	59	8.1	1127	97	88	39	1	19	517	157	49	9.9	--	0.18	--	745	604
1200	5050	2 E	--		--	--	4.84	7.24	1.70	0.02	0.63	8.47	3.27	1.38	0.16				715	149
							35	52	12	0	4	61	23	10	1					
07/14/53	5050	--	--	61	8.3	1122	60	110	44	--	29	505	153	47	11.4	--	0.14	--	771	602
0930	5050	1 E	--		--	--	2.99	9.05	1.91		0.97	8.28	3.18	1.32	0.18				703	140
							21	65	14		7	59	23	9	1					
02/12/54	5050	--	--	--	8.2	1215	110	90	52	3	0	570	176	53	11.5	0.6	0.11	--	851	645
1715	5050	25 E	--		--	--	5.49	7.40	2.26	0.08	0.00	9.34	3.66	1.49	0.18				777	178
							36	49	15	0	0	64	25	10	1					
02/13/54	5050	--	--	--	7.5	984	90	75	55	17	--	469	169	64	4.7	0.4	0.05	--	778	533
1400	5050	5 E	--		--	--	4.49	6.17	2.39	0.43		7.69	3.52	1.80	0.07				706	149
							33	46	18	3		59	27	14	1					
03/30/54	5050	--	--	46	7.6	321	26	19	13	4	0	149	28	13	5.0	0.1	0.18	--	162	143
1405	5050	150 E	--		--	--	1.30	1.56	0.56	0.10	0.00	2.44	0.58	0.37	0.08				182	21
							37	44	16	3	0	70	17	11	2					
05/12/54	5050	--	--	--	8.4	1070	107	81	49	1	7	528	170	46	17.7	0.4	0.09	--	772	600
1400	5050	6.0	--		--	--	5.34	6.66	2.13	0.02	0.23	8.65	3.54	1.30	0.28				739	156
							38	47	15	0	2	62	25	9	2					
08/28/54	5050	--	--	--	--	--	88	88	50	2	23	483	175	40	12.9	--	0.12	--	740	582
1220	5050	0.5	--		--	--	4.39	7.24	2.17	0.05	0.77	7.92	3.64	1.13	0.21				717	147
							32	52	16	0	6	58	27	8	1					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY PH	FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
PISMO CREEK (31S/13E-32D)																				
09/28/54	5050	--	--	59	8.2	1220	99	90	51	1	0	574	173	53	11.2	0.4	0.18	--	774	618
0955	5050	8.5	--		--	--	4.94	7.40	2.22	0.02	0.00	9.41	3.60	1.49	0.18				761	147
							34	51	15	0	0	64	24	10	1					
10/29/54	5050	--	--	54	8.2	1064	103	85	50	2	14	532	152	42	10.9	--	0.16	--	745	607
1335	5050	1.0	--		--	--	5.14	6.99	2.17	0.05	0.47	8.72	3.16	1.18	0.17				721	147
							36	49	15	0	3	64	23	9	1					
PISMO CREEK (32S/12E-12A)																				
04/16/52	5050	--	--	62	8.1	978	72	58	66	2	0	390	130	67	5.1	0.3	0.23	33	626	418
1530	5050	20.0	--		--	--	3.59	4.77	2.87	0.05	0.00	6.39	2.71	1.89	0.08				626	99
							32	42	25	0	0	58	24	17	1					
02/12/54	5050	--	--	--	7.9	1353	106	82	99	3	0	576	149	111	4.7	0.5	0.28	--	915	602
1700	5050	3 E	--		--	--	5.29	6.74	4.31	0.08	0.00	9.44	3.10	3.13	0.07				839	130
							32	41	26	0	0	60	20	20	0					
02/13/54	5050	--	--	--	7.3	787	50	36	86	9	0	271	62	113	3.2	0.4	0.17	--	586	274
1430	5050	30 E	--		--	--	2.49	2.96	3.74	0.23	0.00	4.44	1.29	3.19	0.05				493	51
							26	31	40	2	0	49	14	35	1					
03/30/54	5050	--	--	48	7.5	324	25	13	23	3	0	131	17	28	3.7	0.2	0.05	--	202	116
0925	5050	200 E	--		--	--	1.25	1.07	1	0.08	0.00	2.15	0.35	0.79	0.06				178	8
							37	31	29	2	0	64	11	24	2					
05/12/54	5050	--	--	70	7.9	1042	101	76	83	2	0	562	151	87	10.9	0.4	0.26	--	812	565
1510	5050	1 E	--		--	--	5.04	6.25	3.61	0.05	0.00	9.21	3.14	2.45	0.17				788	164
							34	42	24	0	0	61	21	16	1					
08/28/54	5050	--	--	65	8.3	1250	103	79	104	3	51	511	139	96	3.5	--	0.30	--	870	582
1235	5050	--	--		--	--	5.14	6.50	4.52	0.08	1.70	8.37	2.89	2.71	0.06				831	78
							32	40	28	0	11	53	18	17	0					
09/28/54	5050	--	--	58	7.8	1400	99	81	99	3	0	610	139	108	2.5	0.4	0.50	--	868	580
1010	5050	--	--		--	--	4.94	6.66	4.31	0.08	0.00	10.00	2.89	3.04	0.04				833	80
							31	42	27	0	0	63	18	19	0					
10/29/54	5050	--	--	53	8.5	1316	101	77	103	3	62	487	132	100	2.0	--	0.42	--	815	569
1405	5050	0.7	--		--	--	5.04	6.33	4.48	0.08	2.07	7.98	2.75	2.82	0.03				820	66
							32	40	28	0	13	51	18	18	0					
02/06/58	5050	--	--	56	7.5	1186	62	64	101	1	0	397	131	136	2.4	0.4	1.10	36	825	418
1205	5050	12 E	--		--	--	3.09	5.26	4.39	0.02	0.00	6.51	2.73	3.83	0.04				731	93
							24	41	34	0	0	50	21	29	0					
PISMO CREEK (32S/12E-13J)																				
03/01/55	5050	--	--	--	8.1	1390	101	61	105	4	0	503	142	121	3.0	0.5	0.57	29	--	503
--	5050	--	--		--	--	5.04	5.02	4.57	0.10	0.00	8.24	2.96	3.41	0.05				815	91
							34	34	31	1	0	56	20	23	0					
05/18/55	5050	--	--	--	8.2	1360	86	89	97	3	0	593	147	98	2.0	0.3	0.61	35	--	581
--	5050	--	--		--	--	4.29	7.32	4.22	0.08	0.00	9.72	3.06	2.76	0.03				850	95
							27	46	26	0	0	62	20	18	0					
02/09/62	5050	--	--	64	7.0	358	25	17	23	4	0	124	36	33	4.0	0.0	0.08	23	260	132
1420	5050	80 E	--		--	--	1.25	1.40	1	0.10	0.00	2.03	0.75	0.93	0.06				226	31
							33	37	27	3	0	54	20	25	2					
01/21/64	5050	--	--	50	8.7	1245	86	76	94	4	46	456	127	105	0.6	0.5	0.28	--	773	527
1000	5050	10.0	--		--	--	4.29	6.25	4.09	0.10	1.53	7.47	2.64	2.96	0.01				764	77
							29	42	28	1	10	51	18	20	0					
PISMO CREEK (32S/13E-06B)																				
03/24/53	5050	--	--	57	8.2	1187	94	79	56	2	19	493	147	77	6.9	--	0.22	--	762	560
1120	5050	3 E	--		--	--	4.69	6.50	2.43	0.05	0.63	8.08	3.06	2.17	0.11				724	124
							34	47	18	0	4	57	22	15	1					
03/01/55	5050	--	--	--	8.2	1210	80	100	56	3	0	530	204	51	5.6	0.4	0.36	32	--	611
--	5050	--	--		--	--	3.99	8.22	2.43	0.08	0.00	8.69	4.25	1.44	0.09				793	177
							27	56	16	0	0	60	29	10	1					
05/18/55	5050	--	--	--	8.1	1230	86	98	54	1	0	553	190	51	6.6	0.3	0.21	38	--	618
--	5050	--	--		--	--	4.29	8.06	2.35	0.02	0.00	9.06	3.95	1.44	0.11				797	164
							29	55	16	0	0	62	27	10	1					
08/28/63	5050	--	--	63	8.0	1220	71	91	78	2	0	580	126	91	0.0	0.2	0.36	32	828	552
1415	5050	--	--		--	--	3.54	7.48	3.39	0.05	0.00	9.51	2.62	2.57	0.00				777	76
							24	52	23	0	0	65	18	17	0					
PISMO CREEK (32S/13E-06C)																				
11/24/52	5050	--	--	50	8.3	1403	97	76	95	3	14	542	132	115	5.0	0.5	0.54	--	842	555
1545	5050	1 E	--		--	--	4.84	6.25	4.13	0.08	0.47	8.88	2.75	3.24	0.08				805	87
							32	41	27	0	3	58	18	21	0					
03/24/53	5050	--	--	59	7.8	1221	96	80	100	3	0	583	141	117	8.4	--	0.48	--	858	569
1100	5050	3 E	--		--	--	4.79	6.58	4.35	0.08	0.00	9.55	2.93	3.30	0.13				833	91
							30	42	27	0	0	60	18	21	1					
07/14/53	5050	--	--	63	8.1	1383	87	90	105	3	0	620	126	109	5.5	--	0.44	--	887	588
0940	5050	1 E	--		--	--	4.34	7.40	4.57	0.08	0.00	10.16	2.62	3.07	0.09				831	79
							26	45	28	0	0	64	16	19	1					

MINERAL ANALYSES OF SURFACE WATER

DATE / TIME	LAB / SAMPLER	GH / Q	DO / SAT	TEMP	LABORATORY FIELD PH	LABORATORY FIELD EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
ARROYO GRANDE CREEK (32S/13E-32L)																				
02/06/58	5050	--	--	52	8.5	726	82	36	26	2	8	296	128	21	2.9	0.1	0.12	25	491	353
0745	5050	35 E	--		--	--	4.09	2.96	1.13	0.05	0.27	4.85	2.66	0.59	0.05				477	97
							50	36	14	1	3	58	32	7	0					
ARROYO GRANDE CREEK (32S/13E-14K)																				
03/03/61	5050	--	--	54	8.1	940	71	79	33	2	0	411	192	34	0.0	0.3	0.08	21	628	502
1000	5050	7 E	--		--	--	3.54	6.50	1.43	0.05	0.00	6.74	4.00	0.96	0.00				635	165
							31	56	12	0	0	58	34	8	0					
ARROYO GRANDE CREEK (31S/14E-26R)																				
02/09/62	5050	--	--	--	7.3	355	41	12	18	2	0	124	62	13	5.0	0.5	0.08	24	265	152
1115	5050	100 E	--		--	--	2.04	0.99	0.78	0.05	0.00	2.03	1.29	0.37	0.08				239	50
							53	25	20	1	0	54	34	10	2					
01/04/64	5050	--	--	50	8.7	886	117	25	56	4	26	359	129	39	0.5	0.4	0.05	--	609	395
1030	5050	5 E	--		--	--	5.84	2.05	2.43	0.10	0.87	5.88	2.68	1.10	0.01				574	57
							56	20	23	1	8	56	25	10	0					
ARROYO GRANDE CREEK (31S/14E-32A)																				
11/10/50	5050	--	--	--	7.8	792	120	25	18	1	0	397	101	16	0.2	--	0.01	22	499	402
--	5050	--	--		--	--	5.99	2.05	0.78	0.02	0.00	6.51	2.10	0.45	0.00				499	77
							68	23	9	0	0	72	23	5	0					
ARROYO GRANDE CREEK (31S/14E-33D)																				
02/13/54	5050	--	--	--	7.6	694	108	25	50	5	0	305	165	35	4.2	0.4	0.05	--	607	373
1525	5050	5.3	--		--	--	5.39	2.05	2.17	0.13	0.00	5.00	3.43	0.99	0.07				543	122
							55	21	22	1	0	53	36	10	1					
03/30/54	5050	--	--	--	7.9	514	59	24	20	2	0	218	80	17	1.2	0.2	0.05	--	342	246
1210	5050	99.3	--		--	--	2.94	1.97	0.87	0.05	0.00	3.57	1.66	0.48	0.02				311	67
							50	34	15	1	0	62	29	8	0					
02/07/58	5050	--	--	57	7.9	975	86	54	62	4	0	387	177	40	1.2	0.4	0.08	32	676	437
1445	5050	10 E	--		--	--	4.29	4.44	2.70	0.10	0.00	6.34	3.68	1.13	0.02				647	120
							37	38	23	1	0	57	33	10	0					
04/05/65	5050	--	--	50	8.6	920	121	30	53	2	22	361	158	32	0.0	0.2	0.12	--	662	426
1600	5050	5 E	--		--	--	6.04	2.47	2.30	0.05	0.73	5.92	3.29	0.90	0.00				596	93
							56	23	21	0	7	55	30	8	0					
ARROYO GRANDE CREEK (31S/14E-36E)																				
01/21/63	5050	0.85	--	--	7.6	900	126	32	57	6	0	412	196	48	2.0	0.4	0.08	36	730	446
1000	5050	3.0	--		--	--	6.29	2.63	2.48	0.15	0.00	6.75	4.08	1.35	0.03				706#	108
							54	23	21	1	0	55	33	11	0					
LOPEZ CREEK (31S/14E-16K)																				
11/10/50	5050	--	--	--	8.4	747	88	47	11	3	0	342	123	10	0.0	--	0.08	22	492	413
--	5050	--	--		--	--	4.39	3.86	0.48	0.08	0.00	5.60	2.56	0.28	0.00				473	133
							50	44	5	1	0	66	30	3	0					
01/31/63	5050	1.06	--	--	7.8	610	78	42	12	2	0	342	103	13	0.0	0.2	0.00	14	518	368
1200	5050	24 E	--		--	--	3.89	3.45	0.52	0.05	0.00	5.60	2.14	0.37	0.00				433	87
							49	44	7	1	0	69	26	4	0					
LOPEZ CREEK (31S/14E-16H)																				
12/28/64	5050	--	--	--	7.9	557	62	32	12	5	0	256	82	10	1.0	0.5	0.06	--	360	286
0945	5050	25.0	--		--	--	3.09	2.63	0.52	0.13	0.00	4.19	1.71	0.28	0.02				331	76
							48	41	8	2	0	68	27	4	0					
LOPEZ CREEK (31S/14E-33D)																				
02/09/62	5050	--	--	66	6.7	257	29	12	7	2	0	105	28	18	0.0	0.2	0.19	16	190	122
1100	5050	200 E	--		--	--	1.45	0.99	0.30	0.05	0.00	1.72	0.58	0.51	0.00				164	36
							52	35	11	2	0	61	21	18	0					
LOS BERROS CREEK (32S/13E-33A)																				
03/03/61	5050	--	--	66	8.3	2160	251	118	98	6	2	547	689	123	8.0	0.2	0.23	26	1792	1112
1600	5050	1 E	--		--	--	12.52	9.70	4.26	0.15	0.07	8.96	14.34	3.47	0.14				1592	660
							47	36	16	1	0	33	53	13	0					
02/09/62	5050	--	--	64	6.9	449	40	23	18	4	0	160	63	26	4.0	0.2	0.13	3	320	194
1240	5050	30 E	--		--	--	1.99	1.89	0.78	0.10	0.00	2.62	1.31	0.73	0.06				260	63
							42	40	16	2	0	55	28	15	1					
10/06/67	5050	--	--	60	7.7	2404	272	128	106	11	0	495	689	176	87.5	0.8	0.10	--	1917	1206
1000	5050	--	--		--	--	13.57	10.53	4.61	0.28	0.00	8.11	14.34	4.96	1.41				1714	800
							47	36	16	1	0	28	50	17	5					
TAR SPRINGS CREEK (32S/13E-23C)																				
03/02/61	5050	--	--	68	8.2	1060	126	57	40	2	0	439	220	42	8.0	0.3	0.10	22	678	549
1600	5050	2 E	--		--	--	6.29	4.69	1.74	0.05	0.00	7.19	4.58	1.18	0.00				726	189
							49	37	14	0	0	55	35	9	0					
02/09/62	5050	--	--	66	6.9	412	22	27	25	4	0	136	55	30	6.0	0.4	0.40	26	297	166
1200	5050	15 E	--		--	--	1.10	2.22	1.09	0.10	0.00	2.23	1.14	0.85	0.10				263	54
							24	49	24	2	0	52	26	20	2					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY FIELD PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
PISMO CREEK (32S/13E-06M)																				
07/14/53	5050	--	--	--	8.0	1360	97	70	111	3	0	548	137	126	1.2	0.4	0.47	33	--	530
1130	5050	--	--		--	--	4.84	5.76	4.83	0.08	0.00	8.98	2.85	3.55	0.02				849	81
							31	37	31	0	0	56	18	23	0					
PISMO TRIBUTARY (32S/12E-01R)																				
03/30/54	5050	--	--	48	7.2	404	23	13	37	3	0	114	31	50	5.0	0.2	0.15	--	300	111
0920	5050	50 E	--		--	--	1.15	1.07	1.61	0.08	0.00	1.87	0.64	1.41	0.08				219	17
							29	27	41	2	0	47	16	35	2					
05/12/54	5050	--	--	--	8.5	990	68	44	120	3	6	323	155	110	4.7	--	0.52	--	729	351
1500	5050	--	--		--	--	3.39	3.62	5.22	0.08	0.20	5.29	3.23	3.10	0.07				670	76
							28	29	42	1	2	44	27	26	1					
PISMO TRIBUTARY (32S/13E-05H)																				
07/11/52	5050	--	--	71	6.5	219	9	6	22	1	0	53	9	22	0.4	4.0	0.47	44	--	47
1215	5050	--	--		--	--	0.45	0.49	0.96	0.02	0.00	0.87	0.19	0.62	0.01				144#	4
							23	26	50	1	0	52	11	37	0					
PISMO TRIBUTARY (32S/13E-05C)																				
07/11/52	5050	--	--	71	7.5	1760	18	12	327	6	0	228	29	422	5.1	--	1.70	27	--	94
--	5050	--	--		--	--	0.90	0.99	14.22	0.15	0.00	3.74	0.60	11.90	0.08				960	0
							5	6	87	1	0	23	4	73	0					
WEST CORRAL DE PIEDRA CREEK (31S/13E-29D)																				
10/01/58	5050	--	--	64	7.9	944	121	52	40	2	0	432	191	33	1.5	0.4	0.12	30	680	516
0800	5050	3 E	--		--	--	6.04	4.28	1.74	0.05	0.00	7.08	3.98	0.93	0.02				684	162
							50	35	14	0	0	59	33	8	0					
EAST CORRAL DE PIEDRA CREEK (31S/13E-29F)																				
10/01/58	5050	--	--	65	7.5	892	88	63	38	1	0	464	115	34	10.0	0.5	0.16	30	575	479
0830	5050	2 E	--		--	--	4.39	5.18	1.65	0.02	0.00	7.60	2.39	0.96	0.16				608	98
							39	46	15	0	0	68	21	9	1					
EAST CORRAL DE PIEDRA CREEK (31S/13E-21A)																				
01/04/65	5050	--	--	--	7.6	659	60	36	26	5	0	272	102	21	3.0	0.4	0.05	--	410	298
1530	5050	6.0	--		--	--	2.99	2.96	1.13	0.13	0.00	4.46	2.12	0.59	0.05				388	75
							41	41	16	2	0	62	29	8	1					
CANYON NO. 1 (32S/13E-20F)																				
03/03/61	5050	--	--	64	7.5	1555	61	58	175	28	0	510	66	255	0.0	1.2	0.50	42	968	391
1130	5050	--	--		--	--	3.04	4.77	7.61	0.72	0.00	8.36	1.37	7.19	0.00				938	0
							19	29	47	4	0	49	8	42	0					
ARROYO GRANDE CREEK (32S/13E-22L)																				
11/10/50	5050	--	--	--	8.2	1040	118	60	43	6	22	386	219	34	0.1	--	0.04	28	720	542
--	5050	--	--		--	--	5.89	4.93	1.87	0.15	0.73	6.33	4.56	0.96	0.00				720	188
							46	38	15	1	6	50	36	8	0					
02/06/58	5050	--	--	53	8.2	550	86	36	24	2	0	323	129	21	2.5	0.3	0.09	25	491	363
0815	5050	35 E	--		--	--	4.29	2.96	1.04	0.05	0.00	5.29	2.68	0.59	0.04				485	98
							51	35	12	1	0	61	31	7	0					
ARROYO GRANDE CREEK (32S/13E-21R)																				
09/29/58	5050	--	--	68	7.7	1050	95	85	40	1	0	575	126	38	14.0	0.4	0.08	30	700	587
1200	5050	3 E	--		--	--	4.74	6.99	1.74	0.02	0.00	9.42	2.62	1.07	0.22				713	115
							35	52	13	0	0	71	20	8	2					
02/18/59	5050	--	--	59	8.5	895	103	46	36	3	9	336	172	32	5.6	0.3	0.09	28	631	446
1130	5050	10 E	--		--	--	5.14	3.78	1.56	0.08	0.30	5.51	3.58	0.90	0.09				601	156
							49	36	15	1	3	53	34	9	1					
02/04/60	5050	--	--	56	7.9	1165	135	59	54	3	0	424	263	53	5.0	0.7	0.06	31	825	580
1700	5050	8 E	--		--	--	6.74	4.85	2.35	0.08	0.00	6.95	5.47	1.49	0.08				813	232
							48	35	17	0	0	50	39	11	1					
ARROYO GRANDE CREEK (32S/13E-28F)																				
11/10/50	5050	--	--	--	8.3	1070	122	59	45	5	12	418	220	36	0.0	--	0.02	30	735	547
--	5050	--	--		--	--	6.09	4.85	1.96	0.13	0.40	6.85	4.58	1.01	0.00				735	185
							47	37	15	1	3	53	36	8	0					
ARROYO GRANDE CREEK (32S/13E-32L)																				
02/13/54	5050	--	--	--	8.1	935	110	50	43	5	0	375	180	39	6.5	0.5	0.08	--	684	480
1720	5050	12.7	--		--	--	5.49	4.11	1.87	0.13	0.00	6.15	3.75	1.10	0.10				619	173
							47	35	16	1	0	55	34	10	1					

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	LAB SAMPLER	GH Q	DO SAT	TEMP	LABORATORY FIELD PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER													
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUE													
																MILLIGRAMS PER LITER				
CELERY LAKE (12N/35W-31P)																				
10/05/67	5050	--	--	--	7.7	2821	267	148	200	10	0	439	996	218	6.2	0.7	0.44	--	2327	1276
1610	5050	--	--		--	--	13.32	12.17	8.70	0.25	0.00	7.19	20.74	6.15	0.10				2063	916
							39	35	25	1	0	21	61	18	0					
BIG TWIN LAKE (11N/35W-06P)																				
11/03/60	5050	--	--	62	7.4	3000	105	151	359	22	0	117	213	347	1.9	1.3	0.49	69	1858	884
--	5050	--	--		--	--	5.24	12.43	15.62	0.56	0.00	1.92	4.43	9.78	0.03				1328*	788
							15	37	46	2	0	12	27	60	0					
WHITE LAKE (11N/35W-06D)																				
09/29/54	5050	--	--	63	7.7	3200	56	39	430	20	0	717	148	487	37.2	0.6	1.40	--	2211	511
0915	5050	--	--		--	--	2.89	7.32	18.70	0.51	0.00	11.75	3.06	13.73	0.60				1624	0
							10	25	64	2	0	40	11	47	2					
11/03/60	5050	--	--	64	6.3	3623	121	138	575	30	36	961	329	676	2.5	0.7	0.60	17	2400	870
1500	5050	--	--		--	--	6.04	11.35	25.01	0.77	1.20	15.75	6.85	19.06	0.04				2399	22
							14	26	58	2	3	37	16	44	0					
10/06/67	5050	--	--	68	7.6	2612	145	136	246	15	0	466	657	279	37.2	0.6	--	--	1913	922
--	5050	--	--		--	--	7.23	11.13	10.70	0.41	0.00	7.64	13.68	7.87	0.60				1746	539
							24	38	36	1	0	26	46	26	2					
MUD LAKE (11N/35W-06M)																				
11/03/60	5050	--	--	63	8.1	2900	61	111	466	16	0	908	80	643	2.5	1.2	0.38	29	1966	609
1515	5050	--	--		--	--	3.04	9.13	20.27	0.41	0.00	13.24	1.66	18.13	0.04				1808	0
							9	28	62	1	0	40	5	55	0					
BLACK LAKE (11N/35W-06Q)																				
11/03/60	5050	--	--	62	7.5	6650	19	13	136	4	0	156	5	194	2.5	0.6	0.10	42	537	101
1530	5050	--	--		--	--	0.95	1.07	5.91	0.10	0.00	2.56	0.10	5.47	0.04				493	0
							12	13	74	1	0	31	1	67	0					
04/17/64	5050	--	--	73	7.6	480	11	5	92	4	0	83	7	121	5.0	1.4	0.09	31	338	48
1200	5050	--	--		--	--	0.55	0.41	4.00	0.10	0.00	1.36	0.14	3.41	0.08				319	0
							11	8	79	2	0	27	3	68	2					
10/06/67	5050	--	--	69	7.1	1310	21	18	218	3	0	205	6	303	4.3	0.7	0.24	--	744	126
--	5050	--	--		--	--	1.05	1.49	9.48	0.08	0.00	3.33	0.12	8.54	0.07				674	0
							9	12	78	1	0	28	1	71	1					
LAKE AT LE SAGE RIVIERA GOLF COURSE (32S/12E-24H)																				
10/26/67	5050	--	--	--	8.4	3124	99	101	440	13	12	408	371	628	16.0	0.9	0.02	--	1941	663
1200	5050	--	--		--	--	4.94	8.31	19.14	0.33	0.40	6.69	7.72	17.71	0.26				1882	308
							15	25	58	1	1	20	24	54	1					
LAGOON AT THE ENTRANCE OF PISMO BEACH STATE PARK (32S/13E-30P)																				
03/03/61	5050	--	--	62	7.9	11000	222	274	2050	55	0	393	744	3464	0.0	0.4	1.30	18	7626	1682
1435	5050	--	--		--	--	11.08	22.53	89.17	1.41	0.00	6.44	15.49	97.68	0.00				7022	1360
							9	16	72	1	0	5	13	82	0					
10/05/67	5050	--	--	72	8.0	1649	100	72	148	10	0	410	230	210	6.0	0.4	0.00	--	1035	547
1430	5050	--	--		--	--	4.99	5.92	6.44	0.25	0.00	6.72	4.79	5.92	0.10				978	210
							26	34	37	1	0	38	27	34	0					
LAGOON AT THE ENTRANCE OF PISMO BEACH STATE PARK (32S/13E-31C)																				
01/18/68	5050	--	--	--	7.9	2449	107	100	276	14	0	432	283	452	6.8	0.6	0.20	--	1561	679
1330	5050	--	--		--	--	5.34	8.22	12.00	0.36	0.00	7.08	5.89	12.75	0.11				1452	324
							21	32	46	1	0	27	23	49	0					
LAGUNA LAKE (30S/12E-13J)																				
10/30/54	5050	--	--	68	7.4	730	31	53	48	2	0	336	6	82	4.3	0.3	0.20	--	422	295
1120	5050	--	--		--	--	1.55	4.36	2.09	0.05	0.00	5.54	0.12	2.31	0.07				393	18
							19	54	26	1	0	69	1	29	1					
WHALE ROCK RESERVOIR (28S/10E-34Q)																				
05/10/61	5050	24.00	--	--	8.2	733	47	51	45	2	0	315	97	41	0.0	0.2	0.17	4	528	327
--	5050	0.6	--		--	--	2.34	4.19	1.96	0.05	0.00	5.16	2.02	1.16	0.00				443	69
							27	49	23	1	0	62	24	14	0					
02/28/62	5050	22.40	--	--	7.8	411	37	21	18	2	0	178	48	14	5.0	0.4	0.10	10	235	179
1400	5050	--	--		--	--	1.85	1.73	0.78	0.05	0.00	2.92	1.00	0.39	0.08				243	33
							42	39	18	1	0	66	23	9	2					
04/17/62	5050	31.65	--	--	8.5	464	44	24	21	2	14	176	57	18	1.0	0.3	0.10	12	300	209
1555	5050	--	--		--	--	2.19	1.97	0.91	0.05	0.47	2.92	1.19	0.51	0.02				281	39
							43	38	18	1	9	57	23	10	0					
05/02/62	5050	--	--	68	8.5	476	43	25	20	2	11	188	54	16	0.7	0.4	0.11	12	304	210
1300	5050	--	--		8.1	--	2.14	2.05	0.87	0.05	0.37	3.08	1.12	0.45	0.01				277	38
							42	40	17	1	7	61	22	9	0					

APPENDIX D

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCM
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																				
SAN CARPOFORO HYDRO SUBAREA						T10A1														
25S/06E-16A02M		40	5050	60		421	42	26	9	1	0	244	20	11	1.2	0.0	0.00	--	239	212
08/29/57	--		--	7.7			2.09	2.14	0.39	0.02	0.00	4.00	0.42	0.31	0.02				231	12
							45	46	8	0	0	84	9	6	0					
		40	5050	--		633	58	37	34	1	0	356	30	30	0.5	0.4	0.12	20	356	297
09/30/58	--		--	8.1			2.89	3.04	1.48	0.02	0.00	5.83	0.62	0.85	0.01				387	5
							39	41	20	0	0	80	8	12	0					
		40	5788	--		446	38	28	13	1	0	233	25	14	0.0	0.1	0.10	10	308*	210
09/15/60	--		--	8.0			1.90	2.30	0.56	0.02	0.00	3.82	0.52	0.39	0.00				244	19
							40	48	12	0	0	81	11	8	0					
		40	5050	59		--	42	29	10	1	0	232	24	16	6.2	0.1	0.07	14	254	224
11/02/61	--		--	8.1			2.09	2.38	0.43	0.02	0.00	3.80	0.50	0.45	0.10				257	34
							42	46	9	0	0	78	10	9	2					
		40	5788	62		390	38	25	11	1	0	220	29	11	1.0	0.2	0.12	13	230	198
10/25/62	1230		--	7.7			1.90	2.05	0.48	0.02	0.00	3.60	0.60	0.31	0.02				238	18
							42	46	11	1	0	79	13	7	0					
		40	5050	63		449	43	31	14	1	14	239	23	15	1.5	0.1	0.10	20	230	235
09/20/63	920		--	8.4			2.14	2.55	0.61	0.02	0.47	3.92	0.48	0.42	0.02				281	16
							40	48	11	0	9	74	9	8	0					
		40	5050	58		441	39	27	12	1	0	235	22	17	0.8	0.1	0.08	--	225	209
10/05/64	--		--	7.6			1.95	2.22	0.52	0.02	0.00	3.85	0.46	0.48	0.01				235	16
							41	47	11	0	0	80	9	10	0					
		40	5050	57		436	40	28	11	1	8	223	25	13	0.0	0.2	0.08	--	248	215
10/05/65	1430		--	8.4			1.99	2.30	0.48	0.02	0.27	3.65	0.52	0.37	0.00				236	19
							42	48	10	0	5	76	11	8	0					
		40	5050	59		412	36	28	12	1	--	224	25	17	0.0	0.2	0.08	--	217	205
11/11/67	1045		--	8.1			1.80	2.30	0.52	0.02		3.67	0.52	0.48	0.00				230	8
							39	50	11	0		79	11	10	0					
25S/06E-28A51M		40	5050	65		667	23	45	40	0	0	228	15	87	3.0	0.1	0.00	--	385	243
11/30/65	--		--	7.9			1.15	3.70	1.74	0.00	0.00	3.74	0.31	2.45	0.05				326	56
							17	56	26	0	0	57	5	37	1					
ARROYO DE LA CRUZ HYDRO SUBAREA						T10A2														
25S/06E-34K01M		40	5050	59		510	46	34	11	0	0	277	26	18	2.9	0.0	0.03	--	289*	255
08/31/55	--		--	7.9			2.29	2.80	0.48	0.00	0.00	4.54	0.54	0.51	0.05				275	28
							41	50	9	0	0	81	10	9	1					
		40	5050	--		396	27	27	14	0	9	174	29	18	1.6	0.0	0.00	--	211	179
08/29/57	--		--	8.6			1.35	2.22	0.61	0.00	0.30	2.85	0.60	0.51	0.02				212	21
							32	53	15	0	7	66	14	12	1					
		40	5050	--		465	39	32	17	1	0	245	32	19	1.9	--	0.06	20	298	229
09/30/58	--		--	8.0			1.95	2.63	0.74	0.02	0.00	4.01	0.67	0.53	0.03				283	28
							36	49	14	0	0	76	13	10	1					
		40	5787	--		535	44	33	18	1	0	268	22	24	0.0	0.2	0.12	19	381	246
07/29/59	--		--	7.5			2.19	2.71	0.78	0.02	0.00	4.39	0.46	0.68	0.00				294	26
							38	47	14	0	0	79	8	12	0					
		40	5788	62		608	44	41	22	1	5	302	33	30	1.8	0.0	0.08	15	388*	279
09/15/60	--		--	8.5			2.19	3.37	0.96	0.02	0.17	4.95	0.69	0.85	0.03				342	23
							33	51	15	0	2	74	10	13	0					
		40	5050	56		518	49	40	21	0	0	339	27	21	5.6	0.1	0.10	17	312	287
11/02/61	--		--	8.0			2.44	3.29	0.91	0.00	0.00	5.56	0.56	0.59	0.09				348	9
							37	49	14	0	0	82	8	9	1					
		40	5050	62		506	44	34	16	0	0	271	27	17	2.2	0.2	0.11	25	274	250
10/25/62	1350		--	8.3			2.19	2.80	0.69	0.00	0.00	4.44	0.56	0.48	0.03				299	28
							39	49	12	0	0	80	10	9	1					
		40	5050	61		422	31	29	18	1	0	227	24	19	0.5	0.2	0.15	14	215	197
09/20/63	945		--	8.2			1.55	2.38	0.78	0.02	0.00	3.72	0.50	0.53	0.01				249	11
							33	50	16	0	0	78	10	11	0					
		40	5050	61		494	44	34	15	1	0	277	28	18	0.8	0.1	0.11	--	257	250
10/05/64	--		--	8.1			2.19	2.80	0.65	0.02	0.00	4.54	0.58	0.51	0.01				278	23
							39	49	11	0	0	80	10	9	0					
		40	5050	58		468	34	32	18	1	0	240	31	18	1.0	0.2	0.12	--	241	217
10/05/65	1445		--	8.3			1.70	2.63	0.78	0.02	0.00	3.93	0.64	0.51	0.02				254	20
							33	51	15	0	0	77	13	10	0					
		40	5050	59		532	--	--	--	--	3	265	--	18	1.0	--	--	--	--	--
09/26/66	1100		--	8.4							0.10	4.34		0.51	0.02				--	--
25S/06E-35N01M		40	5786	58		450	40	29	12	1	0	240	19	17	6.8	0.0	0.22	--	194*	219
08/29/54	--		--	7.5			1.99	2.38	0.52	0.02	0.00	3.93	0.39	0.48	0.11				243	22
							40	48	11	0	0	80	8	10	2					
		40	5050	--		420	35	25	11	1	0	195	24	19	2.0	0.2	0.09	--	224	191
11/30/65	1400		--	7.8			1.75	2.05	0.48	0.02	0.00	3.20	0.50	0.53	0.03				214	31
							40	48	11	1	0	75	12	13	1					
		40	5050	59		509	52	31	14	1	12	249	28	21	0.0	0.3	0.10	--	289	257
11/11/67	1110		--	8.3			2.59	2.55	0.61	0.02	0.40	4.08	0.58	0.59	0.00				282	33
							45	44	10	0	7	72	10	10	0					
25S/06E-35Q01M		40	5788	68		500	37	30	20	1	0	246	26	23	0.0	0.1	0.12	--	270	216
07/23/64	--		--	8.0			1.85	2.47	0.87	0.02	0.00	4.03	0.54	0.65	0.00				259	14
							35	47	17	0	0	77	10	12	0					
26S/08E-06G01M		40	5050	--		586	44	42	21	1	0	305	35	25	3.0	0.2	0.09	--	330	283
06/22/65	--		--	8.1			2.19	3.45	0.91	0.02	0.00	5.00	0.73	0.70	0.05				322	33
							33	52	14	0	0	77	11	11	1					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY	LAB SAMPLEN	TEMP PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT SAN SIMEON HYDRO SUBAREA					T10A3														
26S/06E-11B01M		40	5050	--	1688	34	74	186	1	0	112	40	447	18.0	0.1	0.06	29	865	390
09/27/61	--		--	7.3		1.70	6.08	8.09	0.02	0.00	1.83	0.83	12.60	0.29				885	298
						11	38	51	0	0	12	5	81	2					
		40	5788	--	1425	37	55	155	1	0	111	39	375	0.0	0.1	0.10	19	828	319
07/11/62	--		--	7.2		1.85	4.52	6.74	0.02	0.00	1.82	0.81	10.57	0.00				736	228
						14	34	51	0	0	14	6	80	0					
		40	5050	--	1090	24	41	135	8	0	92	32	284	13.0	0.1	0.07	22	658	229
07/06/63	--		--	8.0		1.20	3.37	5.87	0.20	0.00	1.51	0.67	8.01	0.21				605	153
						11	32	55	2	0	14	6	77	2					
		40	5050	--	1197	24	45	139	1	0	107	35	291	17.0	0.2	0.05	--	674	245
07/22/65	--		--	7.5		1.20	3.70	6.05	0.02	0.00	1.75	0.73	8.21	0.27				605	157
						11	34	55	0	0	16	7	75	2					
26S/06E-11B02M		40	5050	--	1195	24	46	139	1	0	109	33	296	14.0	0.2	0.05	--	683	249
09/21/65	--		--	7.9		1.20	3.78	6.05	0.02	0.00	1.79	0.69	8.35	0.22				607	160
						11	34	55	0	0	16	6	76	2					
26S/06E-11G01M		40	5050	--	1111	21	24	168	1	0	107	34	268	1.0	0.2	0.10	13	565	151
09/27/61	--		--	7.8		1.05	1.97	7.31	0.02	0.00	1.75	0.71	7.56	0.02				583	63
						10	19	71	0	0	17	7	75	0					
		40	5788	--	1350	34	33	195	1	0	104	50	359	0.0	0.1	0.12	24	754	221
07/11/62	--		--	8.0		1.70	2.71	8.48	0.02	0.00	1.70	1.04	10.12	0.00				748	136
						13	21	66	0	0	13	8	79	0					
26S/06E-11H01M		40	5050	59	985	35	55	81	0	0	360	13	138	3.7	0.0	0.04	--	529*	314
08/31/55	--		--	7.8		1.75	4.52	3.52	0.00	0.00	5.90	0.27	3.89	0.06				503	19
						18	46	36	0	0	58	3	38	1					
		40	5788	--	1380	38	52	182	1	0	116	46	392	3.0	0.1	0.08	--	978	309
07/08/64	--		--	7.5		1.90	4.28	7.92	0.02	0.00	1.90	0.96	11.05	0.05				772	214
						13	30	56	0	0	14	7	79	0					
		40	5050	--	977	34	52	100	1	17	315	8	150	1.0	0.6	0.13	--	500	299
07/21/65	--		--	8.4		1.70	4.28	4.35	0.02	0.57	5.16	0.17	4.23	0.02				519	12
						16	41	42	0	6	51	2	42	0					
26S/06E-14A01M		40	5050	--	751	18	25	89	1	0	100	30	150	25.0	0.2	0.00	35	385	148
09/27/61	--		--	7.1		0.90	2.05	3.87	0.02	0.00	1.64	0.62	4.23	0.40				423	66
						13	30	56	0	0	24	9	61	6					
26S/06E-14A51M		40	5050	--	729	22	20	83	1	2	93	27	144	17.0	0.2	0.02	--	368	137
10/13/65	1250		--	8.3		1.10	1.64	3.61	0.02	0.07	1.52	0.56	4.06	0.27				362	57
						17	26	57	0	1	23	9	63	4					
26S/07E-20D01M		40	5050	--	3773	84	130	482	2	6	187	104	1048	15.0	0.6	0.06	--	2210	745
12/02/65	--		--	8.2		4.19	10.69	20.97	0.05	0.20	3.06	2.16	29.55	0.24				1964	581
						12	30	58	0	1	9	6	84	1					
26S/07E-26C01M		40	5787	--	886	72	48	39	2	0	364	24	99	0.0	0.0	0.24	7	640	377
06/14/60	--		--	7.3		3.59	3.95	1.70	0.05	0.00	5.96	0.50	2.79	0.00				471	78
						39	42	18	0	0	64	5	30	0					
		40	5788	--	1000	67	56	50	2	0	364	24	134	0.0	0.1	0.15	14	534*	398
08/04/61	--		--	8.1		3.34	4.60	2.17	0.05	0.00	5.96	0.50	3.78	0.00				527	99
						33	45	21	0	0	58	5	37	0					
		40	5788	--	1050	110	41	50	2	0	450	18	124	0.0	0.2	0.13	14	688	443
11/28/62	--		--	7.7		5.49	3.37	2.17	0.05	0.00	7.37	0.37	3.50	0.00				581	74
						49	30	20	0	0	66	3	31	0					
		40	5050	--	925	78	47	45	2	0	348	29	121	0.0	0.2	0.07	14	543	388
07/06/63	--		--	7.5		3.89	3.86	1.96	0.05	0.00	5.70	0.60	3.41	0.00				508	103
						40	40	20	0	0	59	6	35	0					
		40	5788	--	880	58	56	43	2	0	374	25	89	0.0	0.1	0.10	--	510	375
07/08/64	--		--	7.8		2.89	4.60	1.87	0.05	0.00	6.13	0.52	2.51	0.00				458	68
						31	49	20	0	0	67	6	27	0					
		40	5050	--	857	70	49	39	2	0	354	31	93	0.0	0.3	0.07	--	494	376
07/21/65	--		--	7.8		3.49	4.03	1.70	0.05	0.00	5.80	0.64	2.62	0.00				459	86
						38	43	18	0	0	64	7	29	0					
		40	5050	64	969	78	50	44	2	0	380	29	112	0.7	--	0.10	--	598	400
09/26/66	1030		--	8.3		3.89	4.11	1.91	0.05	0.00	6.23	0.60	3.16	0.01				503	88
						39	41	19	0	0	62	6	32	0					
26S/07E-36B51M		40	5050	62	1085	11	19	171	1	0	82	39	254	9.0	0.4	0.03	--	550	106
12/01/65	--		--	8.0		0.55	1.56	7.44	0.02	0.00	1.34	0.81	7.16	0.14				545	39
						6	16	78	0	0	14	9	76	1					
26S/08E-19C51M		40	5788	--	610	42	27	61	1	0	285	62	19	26.0	0.4	0.15	--	398	216
03/23/65	--		--	8.2		2.09	2.22	2.65	0.02	0.00	4.67	1.29	0.53	0.42				379	0
						30	32	38	0	0	67	19	8	6					
27S/08E-06A01M		40	5788	--	585	48	15	19	1	0	308	31	27	0.0	0.1	0.15	18	338*	182
08/04/61	--		--	7.7		2.39	1.23	0.83	0.02	0.00	5.05	0.64	0.76	0.00				311*	0
						53	27	18	1	0	78	10	12	0					
27S/08E-06A02M		40	5050	--	613	47	42	17	1	0	289	41	29	3.0	0.3	0.12	--	338	290
12/02/65	--		--	7.4		2.34	3.45	0.74	0.02	0.00	4.74	0.85	0.82	0.05				323	53
						36	53	11	0	0	73	13	13	1					
27S/08E-06G01M		40	5050	--	550	45	40	27	1	0	287	34	28	33.0	0.0	0.12	23	343	277
12/12/58	--		--	7.4		2.24	3.29	1.17	0.02	0.00	4.70	0.71	0.79	0.53				373	42
						33	49	17	0	0	70	10	12	8					
		40	5788	--	608	48	40	21	1	0	301	34	36	0.7	0.0	0.15	20	370*	285
08/04/61	--		--	7.7		2.39	3.29	0.91	0.02	0.00	4.93	0.71	1.01	0.01				349	38
						36	50	14	0	0	74	11	15	0					
		40	5788	60	615	47	41	24	1	0	292	33	35	15.0	0.1	0.16	22	388	286
04/06/62	1300		--	7.5		2.34	3.37	1.04	0.02	0.00	4.78	0.69	0.99	0.24				362	46
						35	50	15	0	0	71	10	15	4					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																				
SAN SIMEON HYDRO SUBAREA							I10A3													
27S/08E-06G01M		40	5050	--		575	50	38	19	1	9	281	33	27	4.3	0.2	0.09	22	338	282
07/07/63	730		--	8.4			2.49	3.12	0.83	0.02	0.30	4.60	0.69	0.76	0.07				342	36
							38	48	13	0	5	72	11	12	1					
		40	5050	58		609	46	41	19	1	--	306	38	28	2.0	0.2	0.12	0	381	284
07/20/66	1245		--	7.9			2.29	3.37	0.83	0.02		5.01	0.79	0.79	0.03				326	18
							35	52	13	0		76	12	12	0					
		40	5050	58		606	--	--	--	--	0	300	--	20	2.1	--	--	--	--	--
09/26/66	1000		--	8.2							0.00	4.92		0.56	0.03				--	--
		40	5050	58		597	55	38	21	1	19	261	34	34	6.0	0.2	0.02	--	329	293
05/23/67	945		--	8.4			2.74	3.12	0.91	0.02	0.63	4.28	0.71	0.96	0.10				337	47
							40	46	13	0	9	64	11	14	1					
27S/08E-06H02M		40	5050	63		563	50	36	12	1	0	299	32	18	2.0	0.0	0.07	--	348	273
08/31/55	--		--	7.7			2.49	2.96	0.52	0.02	0.00	4.90	0.67	0.51	0.03				299	28
							42	49	9	0	0	80	11	8	0					
		40	5050	--		600	48	44	14	1	0	308	39	28	3.1	0.2	0.05	27	332	301
12/23/59	--		--	8.1			2.39	3.62	0.61	0.02	0.00	5.05	0.81	0.79	0.05				356	48
							36	54	9	0	0	75	12	12	1					
		40	5788	--		588	51	38	19	1	0	313	34	27	0.0	0.1	0.15	19	278	284
08/04/61	--		--	7.7			2.54	3.12	0.83	0.02	0.00	5.13	0.71	0.76	0.00				344	27
							39	48	13	0	0	78	11	11	0					
		40	5050	--		560	48	40	10	1	0	284	34	21	3.1	0.2	0.12	20	321	285
07/07/63	--		--	8.0			2.39	3.29	0.43	0.02	0.00	4.65	0.71	0.59	0.05				318	52
							39	53	7	0	0	77	12	10	1					
		40	5788	--		570	38	43	19	1	0	298	40	18	0.0	0.1	0.10	--	346	272
07/08/64	--		--	8.2			1.90	3.54	0.83	0.02	0.00	4.88	0.83	0.51	0.00				306	28
							30	56	13	0	0	78	13	8	0					
		40	5050	--		516	39	36	16	1	0	290	20	18	1.0	0.2	0.09	--	250	246
06/22/65	--		--	7.8			1.95	2.96	0.69	0.02	0.00	4.75	0.42	0.51	0.02				274	8
							35	53	12	0	0	83	7	9	0					
27S/08E-09J01M		40	5050	--		546	48	33	16	1	0	270	39	19	2.0	0.3	0.13	--	298	256
12/03/65	--		--	8.0			2.39	2.71	0.69	0.02	0.00	4.42	0.81	0.53	0.03				292	35
							41	46	12	0	0	76	14	9	0					
		40	5050	63		574	52	34	17	1	0	289	44	16	3.2	--	0.20	--	327	270
09/26/66	1330		--	8.3			2.59	2.80	0.74	0.02	0.00	4.74	0.92	0.45	0.05				310	33
							42	45	12	0	0	77	15	7	1					
27S/08E-09J02M		40	5788	64		622	58	34	19	1	0	266	38	53	3.5	0.1	0.22	15	324*	285
08/04/61	--		--	8.1			2.89	2.80	0.83	0.02	0.00	4.36	0.79	1.49	0.06				353	67
							44	43	13	0	0	65	12	22	1					
27S/08E-09P02M		40	5786	61		558	44	37	17	1	0	287	35	21	3.7	0.1	0.20	--	363*	262
05/29/54	--		--	7.7			2.19	3.04	0.74	0.02	0.00	4.70	0.73	0.59	0.06				361	27
							37	51	12	0	0	77	12	10	1					
		40	5050	62		586	53	40	14	1	0	305	40	18	4.4	0.9	0.15	--	332*	297
09/01/55	--		--	7.8			2.64	3.29	0.61	0.02	0.00	5.00	0.83	0.51	0.07				322	47
							40	50	9	0	0	78	13	8	1					
		40	5788	64		542	37	36	17	1	0	263	38	20	2.7	0.1	0.16	17	292*	241
09/15/60	--		--	8.2			1.85	2.96	0.74	0.02	0.00	4.31	0.79	0.56	0.04				299	25
							33	53	13	0	0	75	14	10	1					
		40	5050	58		577	45	40	21	4	0	268	47	25	30.0	0.2	0.15	12	336	277
11/02/61	--		--	8.2			2.24	3.29	0.91	0.10	0.00	4.39	0.98	0.70	0.48				357	57
							34	50	14	2	0	67	15	11	7					
		40	5050	63		574	53	36	17	1	0	303	39	18	2.2	0.2	0.15	28	326	280
10/25/62	1545		--	8.0			2.64	2.96	0.74	0.02	0.00	4.97	0.81	0.51	0.03				344	31
							41	46	12	0	0	79	13	8	1					
		40	5050	68		459	26	35	20	1	14	203	37	19	3.0	0.2	0.18	27	260	209
09/20/63	1230		--	8.4			1.30	2.88	0.87	0.02	0.47	3.33	0.77	0.53	0.05				283	19
							26	57	17	0	9	65	15	10	1					
		40	5050	62		529	38	37	18	1	0	260	40	20	1.8	0.2	0.16	--	283	247
10/05/64	--		--	8.0			1.90	3.04	0.78	0.02	0.00	4.26	0.83	0.56	0.03				284	34
							33	53	14	0	0	75	15	10	0					
27S/08E-09P02M		40	5050	--		597	54	35	18	1	2	298	43	19	2.4	--	0.20	--	339	279
09/26/66	1400		--	8.4			2.69	2.88	0.78	0.02	0.07	4.88	0.89	0.53	0.04				322	31
							42	45	12	0	1	76	14	8	1					
27S/08E-10A02M		40	5786	65		588	54	38	17	1	0	307	42	19	5.6	0.1	0.21	--	396*	291
05/29/54	--		--	7.6			2.69	3.12	0.74	0.02	0.00	5.03	0.87	0.53	0.09				328	39
							41	47	11	0	0	77	13	8	1					
27S/08E-16D01M		40	5050	--		1167	109	71	41	1	0	647	44	57	22.6	0.7	0.00	--	676*	564
09/01/55	--		--	7.7			5.44	5.84	1.78	0.02	0.00	10.60	0.92	1.61	0.36				665	33
							42	45	14	0	0	79	7	12	3					
27S/08E-17A01M		40	5050	--		1218	37	33	159	4	10	280	47	204	0.5	0.5	0.31	--	855	228
12/03/65	--		--	8.4			1.85	2.71	6.92	0.10	0.33	4.59	0.98	5.75	0.01				633	0
							16	23	60	1	3	39	8	49	0					
SANTA ROSA HYDRO SUBAREA							I10A4													
27S/08E-16N01M		40	5050	--		10900	276	393	2060	17	0	437	916	3927	0.0	0.1	0.37	18	7932	2306
08/04/61	--		--	7.6			13.77	32.32	89.61	0.43	0.00	7.16	19.07	110.74	0.00				7823	1948
							10	24	66	0	0	5	14	81	0					
27S/08E-21R03M		40	5050	59		1050	72	67	64	4	0	476	97	80	3.8	0.1	0.17	--	638*	455
06/15/55	--		--	7.6			3.59	5.51	2.78	0.10	0.00	7.80	2.02	2.26	0.06				623	65
							30	46	23	1	0	64	17	19	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY	LAB SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																				
SANTA ROSA HYDRO SUBAREA						I10A4														
27S/08E-21R03M		40	5787	70		1119	83	72	58	4	0	525	100	76	0.0	0.3	0.24	22	803	503
07/28/59	--		--	7.4			4.14	5.92	2.52	0.10	0.00	8.60	2.08	2.14	0.00				674	72
							33	47	20	1	0	67	16	17	0					
		40	5788	--		1051	57	65	77	2	0	418	110	95	0.0	0.2	0.24	20	649*	410
07/05/60	--		--	8.3			2.84	5.34	3.35	0.05	0.00	6.85	2.29	2.68	0.00				632	67
							24	46	29	0	0	58	19	23	0					
		40	5050	58		5375	242	462	313	--	0	235	233	1925	14.0	0.4	0.18	23	4118	2506
11/02/61	--		--	8.0			12.07	37.99	13.61		0.00	3.85	4.85	54.28	0.22				3329	2313
							19	60	21		0	6	8	86	0					
		40	5050	--		1301	94	80	68	5	0	554	117	100	1.0	0.4	0.20	26	753	564
10/25/62	1020		--	7.4			4.69	6.58	2.96	0.13	0.00	9.08	2.43	2.82	0.02				764	118
							33	46	21	1	0	63	17	20	0					
		40	5788	--		1300	98	87	70	43	0	669	117	102	0.0	0.2	0.26	19	842	602
11/28/62	--		--	8.1			4.89	7.15	3.04	1.10	0.00	10.96	2.43	2.88	0.00				866	53
							30	44	19	7	0	67	15	18	0					
		40	5050	67		1080	80	74	58	5	0	517	107	68	1.0	0.4	0.22	27	620	504
09/20/63	1330		--	7.6			3.99	6.08	2.52	0.13	0.00	8.47	2.23	1.92	0.02				675	80
							31	48	20	1	0	67	18	15	0					
		40	5050	58		1176	84	83	61	4	0	545	102	91	0.0	0.3	0.21	--	688	551
10/06/64	--		--	7.5			4.19	6.82	2.65	0.10	0.00	8.93	2.12	2.57	0.00				694	104
							30	50	19	1	0	66	16	19	0					
		40	5050	56		1056	50	80	59	4	0	441	107	79	0.0	0.3	0.18	--	587	454
10/05/65	1530		--	8.1			2.49	6.58	2.57	0.10	0.00	7.23	2.23	2.23	0.00				597	92
							21	56	22	1	0	62	19	19	0					
		40	5050	58		1300	--	--	--	--	0	562	--	98	0.7	--	--	--	--	--
09/26/66	915		--	8.0							0.00	9.21		2.76	0.01				--	--
		40	5050	56		1155	47	91	70	5	--	511	100	99	1.0	0.3	0.17	--	678	491
05/23/67	915		--	8.1			2.34	7.48	3.04	0.13		8.37	2.08	2.79	0.02				665	72
							18	58	23	1		63	16	21	0					
		40	5050	58		1099	41	84	74	6	14	418	95	107	0.0	0.4	0.20	--	635	448
11/11/67	1200		--	8.3			2.04	6.91	3.22	0.15	0.47	6.85	1.98	3.02	0.00				628	82
							17	56	26	1	4	56	16	24	0					
27S/08E-22N01M		40	5050	--		1224	94	76	63	3	0	517	112	108	0.5	0.3	0.18	27	780	547
09/27/61	--		--	7.7			4.69	6.25	2.74	0.08	0.00	8.47	2.33	3.04	0.01				739	123
							34	45	20	1	0	61	17	22	0					
		40	5788	--		1220	96	84	51	3	0	574	120	90	0.0	0.1	0.24	20	850	585
07/11/62	--		--	8.1			4.79	6.91	2.22	0.08	0.00	9.41	2.50	2.54	0.00				747	114
							34	49	16	0	0	65	17	18	0					
27S/08E-26C03M		40	5050	--		1030	88	74	38	1	0	506	109	50	2.0	0.4	0.18	20	619	524
12/23/59	--		--	8.0			4.39	6.08	1.65	0.02	0.00	8.29	2.27	1.41	0.03				640	109
							36	50	14	0	0	69	19	12	0					
27S/08E-26C05M		40	5050	--		1120	90	74	50	2	6	521	113	55	3.6	--	0.20	--	595	529
09/27/66	800		--	8.4			4.49	6.08	2.17	0.05	0.20	8.54	2.35	1.55	0.06				650	92
							35	47	17	0	2	67	18	12	0					
		40	5050	--		1069	89	75	49	1	--	514	124	50	3.0	0.5	0.21	--	642	531
11/16/67	--		--	7.7			4.44	6.17	2.13	0.02		8.42	2.58	1.41	0.05				645	99
							35	48	17	0		68	21	11	0					
27S/08E-26D01M		40	5874	64		1250	95	71	50	1	0	507	125	67	4.0	0.6	0.20	--	756	529
12/07/65	--		--	7.9			4.74	5.84	2.17	0.02	0.00	8.31	2.60	1.89	0.06				664	113
							37	46	17	0	0	65	20	15	0					
		40	5050	59		1180	--	--	--	--	0	501	--	73	3.5	--	--	--	--	--
09/26/66	1430		--	7.9							0.00	8.21		2.06	0.06				--	--
		40	5050	--		1173	97	79	51	1	--	535	119	73	3.8	0.5	0.16	--	717	587
11/16/67	--		--	7.8			4.84	6.50	2.22	0.02		8.77	2.48	2.06	0.06				688	128
							36	48	16	0		66	18	15	0					
27S/08E-27G01M		40	5050	58		1118	93	74	47	1	--	499	120	73	3.0	0.4	0.18	--	648	537
07/20/66	1330		--	8.2			4.64	6.08	2.04	0.02		8.18	2.50	2.06	0.05				657	128
							36	48	16	0		64	19	16	0					
		40	5788	65		1470	126	80	75	1	0	573	111	155	2.5	0.1	0.25	26	1276*	644
09/27/61	--		--	8.0			6.29	6.58	3.26	0.02	0.00	9.39	2.31	4.37	0.04				859	174
							39	41	20	0	0	58	14	27	0					
27S/08E-34HS1M		40	5874	64		1400	59	60	140	1	0	221	29	311	35.0	0.5	0.00	--	884	394
12/07/65	--		--	7.6			2.94	4.93	6.09	0.02	0.00	3.62	0.60	8.77	0.56				745	213
							21	35	43	0	0	27	4	65	4					
27S/08E-36LS1M		40	5788	--		520	16	66	9	1	0	377	3	14	1.0	0.1	0.21	--	298	312
03/23/65	--		--	8.2			0.80	5.43	0.39	0.02	0.00	6.18	0.06	0.39	0.02				296	3
							12	82	6	0	0	93	1	6	0					
		40	5050	--		1241	80	88	74	1	0	710	16	83	2.0	0.6	0.18	--	670	562
12/07/65	--		--	8.1			3.99	7.24	3.22	0.02	0.00	11.64	0.33	2.34	0.03				694	0
							28	50	22	0	0	81	2	16	0					
27S/09E-04E01M		40	5874	--		1200	90	64	48	1	33	530	11	55	7.0	0.5	0.16	--	624	488
12/07/65	--		--	8.4			4.49	5.26	2.09	0.02	1.10	8.69	0.23	1.55	0.11				571	0
							38	44	18	0	9	74	2	13	1					
27S/09E-19M01M		40	5786	60		1245	106	86	43	1	0	674	74	56	13.6	0.2	0.20	--	816*	618
05/29/54	--		--	7.5			5.29	7.07	1.87	0.02	0.00	11.05	1.54	1.58	0.22				712	65
							37	50	13	0	0	77	11	11	1					
		40	5874	--		1420	122	85	30	1	62	543	109	45	3.0	0.4	0.26	--	864	655
12/07/65	--		--	8.2			6.09	6.99	1.30	0.02	2.07	8.90	2.27	1.27	0.05				725	106
							42	48	9	0	14	61	16	9	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																				
SANTA ROSA HYDRO SUBAREA						I10A4														
27S/09E-21B01M		40	5874	--		570	63	27	5	5	0	152	67	53	2.0	0.4	0.20	--	392	268
12/06/65	--		--	8.1			3.14	2.22	0.22	0.13	0.00	2.49	1.39	1.49	0.03				298#	143
							55	39	4	2	0	46	26	28	1					
27S/09E-28Q01M		40	5050	--		941	73	66	43	1	0	549	11	50	0.0	0.6	0.32	--	547*	454
08/07/53	--		--	7.4			3.64	5.43	1.87	0.02	0.00	9.00	0.23	1.41	0.00				515	4
							33	49	17	0	0	85	2	13	0					
27S/09E-32P01M		40	5874	--		980	100	49	67	1	22	424	121	59	7.0	0.7	0.09	--	644	451
12/07/65	--		--	8.2			4.99	4.03	2.91	0.02	0.73	6.95	2.52	1.66	0.11				636	67
							42	34	24	0	6	58	21	14	1					
27S/09E-34L01M		40	5050	--		636	54	39	25	1	0	342	17	25	11.2	0.7	0.08	--	361*	285
08/07/53	--		--	7.0			2.69	3.21	1.09	0.02	0.00	5.60	0.35	0.70	0.18				342	14
							38	46	15	0	0	82	5	10	3					
28S/09E-08Q01M		40	5786	--		1890	88	73	191	1	0	452	31	372	18.0	0.2	1.40	--	1278*	520
08/07/53	--		--	7.6			4.39	6.00	8.31	0.02	0.00	7.41	0.64	10.49	0.29				998	149
							23	32	44	0	0	39	3	56	1					
		40	5050	--		1343	59	61	132	1	12	359	32	227	1.0	0.6	0.85	--	787	398
12/03/65	--		--	8.4			2.94	5.02	5.74	0.02	0.40	5.88	0.67	6.40	0.02				763	83
							21	36	42	0	3	44	5	48	0					
VILLA HYDRO SUBAREA						I10A5														
28S/09E-10L01M		40	5874	--		480	41	18	25	1	0	202	15	31	7.0	0.8	0.08	--	268	176
12/08/65	--		--	7.5			2.04	1.48	1.09	0.02	0.00	3.31	0.31	0.87	0.11				239	11
							44	32	23	0	0	72	7	19	2					
28S/09E-22N01M		40	5874	67		2220	113	95	190	2	0	585	77	365	3.0	0.5	0.52	--	1252	673
12/07/65	--		--	7.9			5.64	7.81	8.26	0.05	0.00	9.59	1.60	10.29	0.05				1134	193
							26	36	38	0	0	44	7	48	0					
28S/09E-23E01M		40	5874	--		1220	80	57	70	1	14	211	222	106	3.0	0.6	0.54	--	588	434
12/07/65	--		--	8.4			3.99	4.69	3.04	0.02	0.47	3.46	4.62	2.99	0.05				658	238
							34	40	26	0	4	30	40	26	0					
28S/09E-26E01M		40	5050	63		2380	124	113	196	1	0	470	67	373	266.0	0.5	0.53	--	1441*	775
06/15/55	--		--	7.8			6.19	9.29	8.52	0.02	0.00	7.70	1.39	10.52	4.29				1373	369
							26	39	35	0	0	32	6	44	18					
		40	5050	--		1640	96	81	160	3	0	470	54	259	122.2	0.4	0.30	--	1038	573
08/29/57	--		--	7.4			4.79	6.66	6.96	0.08	0.00	7.70	1.12	7.30	1.97				1007	187
							26	36	38	0	0	42	6	40	11					
		40	5050	--		1812	99	88	184	1	--	517	65	282	130.0	0.6	0.40	20	1110	689
09/30/58	--		--	7.4			4.94	7.24	8.00	0.02		8.47	1.35	7.95	2.10				1125	185
							24	36	40	0		43	7	40	10					
		40	5787	66		2198	114	94	168	2	0	468	71	346	156.0	0.5	0.04	20	1479	672
07/28/59	--		--	7.2			5.69	7.73	7.31	0.05	0.00	7.67	1.48	9.81	2.55				1266	288
							27	37	35	0	0	36	7	46	12					
		40	5788	--		1785	53	90	191	1	0	329	67	304	120.0	0.4	0.44	16	1091*	582
07/05/60	--		--	8.1			2.64	7.40	8.31	0.02	0.00	5.39	1.39	8.57	1.93				1005#	232
							14	40	45	0	0	31	8	50	11					
		40	5050	62		1895	92	102	182	1	0	421	60	321	202.0	0.6	0.36	17	1177	650
10/31/61	--		--	8.1			4.59	8.39	7.92	0.02	0.00	6.90	1.25	9.05	3.26				1185	305
							22	40	38	0	0	34	6	44	16					
		40	5050	--		2004	100	94	176	1	0	477	60	306	154.0	0.6	0.44	23	1161	637
10/24/62	1400		--	7.3			4.99	7.73	7.65	0.02	0.00	7.82	1.25	8.63	2.48				1150	246
							24	38	37	0	0	39	6	43	12					
		40	5050	63		1992	100	99	184	2	31	437	64	316	160.0	0.6	0.76	19	1300	657
09/23/63	830		--	8.3			4.99	8.14	8.00	0.05	1.03	7.16	1.33	8.91	2.58				1192	247
							23	38	38	0	5	34	6	42	12					
		40	5050	74		1735	88	86	162	1	0	478	52	280	107.0	0.4	0.53	--	1006	573
10/06/64	--		--	7.8			4.39	7.07	7.05	0.02	0.00	7.83	1.08	7.90	1.72				1012	181
							24	38	38	0	0	42	6	43	9					
		40	5050	65		1798	57	86	182	1	0	359	66	293	143.0	0.6	0.50	--	1104	496
10/04/65	1115		--	8.0			2.84	7.07	7.92	0.02	0.00	5.88	1.37	8.26	2.31				1006	202
							16	40	44	0	0	33	8	46	13					
		40	5050	63		1930	--	--	--	--	0	458	--	278	131.0	--	--	--	--	--
09/26/66	1000		--	8.1							0.00	7.51		7.84	2.11				--	--
		40	5050	63		1950	90	85	200	1	--	453	76	308	138.0	0.6	0.10	--	1200	574
05/23/67	1300		--	8.0			4.49	6.99	8.70	0.02		7.42	1.58	8.68	2.22				1122	203
							22	35	43	0		37	8	44	11					
		40	5050	63		1692	43	84	197	1	--	323	71	293	135.0	0.6	1.00	--	994	453
11/11/67	1315		--	8.2			2.14	6.91	8.57	0.02		5.29	1.48	8.26	2.18				985	188
							12	39	48	0		31	9	48	13					
28S/09E-26N02M		40	5050	58		869	63	43	64	2	0	397	65	57	3.7	0.5	0.16	--	483*	334
06/15/55	--		--	8.2			3.14	3.54	2.78	0.05	0.00	6.51	1.35	1.61	0.06				494	8
							33	37	29	0	0	68	14	17	1					
		40	5050	69		1466	97	78	84	3	0	473	45	223	4.4	0.9	0.11	--	729*	563
09/01/55	--		--	8.1			4.84	6.41	3.65	0.08	0.00	7.75	0.94	6.29	0.07				768	175
							32	43	24	0	0	51	6	42	0					
		40	5050	71		1475	110	86	94	3	0	607	35	213	4.3	0.4	0.33	20	890	629
09/27/61	--		--	7.7			5.49	7.07	4.09	0.08	0.00	9.95	0.73	6.01	0.07				865	131
							33	42	24	0	0	59	4	36	0					
28S/09E-26N03M		40	5874	63		950	72	42	43	2	0	371	69	53	3.0	0.4	0.16	--	460	352
12/07/65	--		--	7.9			3.59	3.45	1.87	0.05	0.00	6.08	1.44	1.49	0.05				467	48
							40	38	21	1	0	67	16	16	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB	SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
								MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																					
VILLA HYDRO SUBAREA							T10A5														
28S/09E-35A01M		40	5050		68		1235	60	61	134	1	0	461	57	163	39.0	0.6	0.68	17	747	481
09/27/61	--		--		8.1			2.99	5.02	5.83	0.02	0.00	7.55	1.19	4.60	0.63				760	23
								22	36	42	0	0	54	8	33	4					
28S/09E-35C01M		40	5050		68		2320	75	116	275	2	0	534	75	514	51.0	0.8	1.04	17	1409	665
09/27/61	--		--		7.9			3.74	9.54	11.96	0.05	0.00	8.75	1.56	14.49	0.82				1398	227
								15	38	47	0	0	34	6	56	3					
		40	5050		--		2400	98	148	337	1	0	595	62	560	33.0	0.8	1.12	13	1605	854
07/08/63	--		--		8.0			4.89	12.17	14.66	0.02	0.00	9.75	1.29	15.79	0.53				1547*	366
								15	38	46	0	0	36	5	58	2					
		40	5050		--		2501	82	127	276	1	0	625	62	492	41.0	0.9	1.14	--	1459	727
07/15/64	--		--		7.2			4.09	10.44	12.00	0.02	0.00	10.24	1.29	13.87	0.66				1391	215
								15	39	45	0	0	39	5	53	2					
CAYUCOS HYDRO SUBAREA							T10A6														
28S/10E-31B01M		40	5050		--		1500	91	52	142	1	0	467	27	241	12.0	1.0	0.13	19	815	441
07/20/61	--		--		7.8			4.54	4.28	6.18	0.02	0.00	7.65	0.56	6.80	0.19				816	58
								30	28	41	0	0	50	4	45	1					
28S/10E-31F01M		40	5050		74		1530	56	71	179	0	0	491	42	239	25.6	1.2	0.17	--	812*	432
09/01/55	--		--		8.2			2.79	5.84	7.79	0.00	0.00	8.05	0.87	6.74	0.41				856	29
								17	36	47	0	0	50	5	42	3					
		40	5050		--		1550	53	65	184	2	0	479	46	252	12.0	0.5	0.27	15	842	400
07/20/61	--		--		8.1			2.64	5.34	8.00	0.05	0.00	7.85	0.96	7.11	0.19				866	7
								16	33	50	0	0	49	6	44	1					
		40	5874		--		1580	72	57	152	1	0	405	45	262	18.0	1.0	0.30	--	900	414
12/07/65	--		--		7.7			3.59	4.69	6.61	0.02	0.00	6.64	0.94	7.39	0.29				808	82
								24	31	44	0	0	43	6	48	2					
		40	5050		63		1626	58	66	192	3	--	467	46	261	18.0	1.0	0.24	--	916	416
07/20/66	1100		--		8.0			2.89	5.43	8.35	0.08		7.65	0.96	7.36	0.29				875	33
								17	32	50	0		47	6	45	2					
		40	5050		70		1503	45	66	182	0	23	368	47	263	18.0	1.0	0.23	--	842	384
11/11/67	1330		--		8.4			2.24	5.43	7.92	0.00	0.77	6.03	0.98	7.42	0.29				827	44
								14	35	51	[illegible]	5	39	6	48	2					
28S/10E-32A01M		40	5050		--		898	55	65	46	1	0	470	24	63	2.0	0.4	0.12	--	505	405
12/08/65	--		--		8.1			2.74	5.34	2	0.02	0.00	7.70	0.50	1.78	0.03				488	19
								27	53	20	0	0	77	5	18	0					
28S/10E-32A03M		40	5050		65		1330	79	80	79	8	0	449	39	135	20.4	0.7	0.00	--	814*	526
09/01/55	--		--		7.8			3.94	6.58	3.44	0.20	0.00	7.36	0.81	3.81	0.33				662*	158
								28	46	24	1	0	60	7	31	3					
		40	5050		--		1185	48	89	95	9	8	537	41	135	24.8	0.3	0.13	--	721	486
08/29/57	--		--		8.4			2.39	7.32	4.13	0.23	0.27	8.80	0.85	3.81	0.40				715	32
								17	52	29	2	2	62	6	27	3					
		40	5787		--		1571	64	90	128	8	0	536	68	191	29.0	0.3	0.28	20	1108	538
09/30/58	--		--		7.7			3.19	7.40	5.57	0.20	0.00	8.78	1.41	5.39	0.47				863	90
								19	45	34	1	0	55	9	33	3					
		40	5787		69		1374	74	89	92	9	0	599	44	135	17.0	0.0	0.00	23	820	551
07/28/59	--		--		7.4			3.69	7.32	4.00	0.23	0.00	9.82	0.92	3.81	0.27				778	60
								24	48	26	1	0	66	6	26	2					
		40	5788		--		1326	58	91	95	2	0	555	45	125	26.2	0.4	0.49	21	788*	519
06/27/60	--		--		7.8			2.89	7.48	4.13	0.05	0.00	9.10	0.94	3.52	0.42				737	64
								20	51	28	0	0	65	7	25	3					
		40	5050		58		1210	74	85	99	1	0	625	40	113	27.0	0.4	0.19	21	705	534
11/03/61	--		--		7.7			3.69	6.99	4.31	0.02	0.00	10.24	0.83	3.19	0.43				768	21
								25	46	29	0	0	70	6	22	3					
		40	5787		63		1301	69	81	101	9	0	606	40	117	11.0	0.4	0.34	14	975	505
02/05/62	1600		--		7.7			3.44	6.66	4.39	0.23	0.00	9.93	0.83	3.30	0.18				741	8
								23	45	30	2	0	70	6	23	1					
		40	5050		63		1335	73	90	100	11	0	664	37	133	22.0	0.3	0.20	--	768	552
10/06/64	--		--		8.1			3.64	7.40	4.35	0.28	0.00	10.88	0.77	3.75	0.35				793	7
								23	47	28	2	0	69	5	24	2					
		40	5050		61		1236	41	84	102	10	0	531	43	121	27.0	0.4	0.18	--	681	448
10/05/65	1015		--		8.2			2.04	6.91	4.44	0.25	0.00	8.70	0.89	3.41	0.43				690	12
								15	51	32	2	0	65	7	25	3					
		40	5050		63		1340	--	--	--	--	8	553	--	116	37.0	--	--	--	--	--
09/27/66	1100		--		8.4							0.27	9.06		3.27	0.60				--	--
28S/10E-32A04M		40	5874		62		1550	37	84	151	7	47	489	55	163	3.0	0.5	0.29	--	832	438
10/05/65	1045		--		8.3			1.85	6.91	6.57	0.18	1.57	8.01	1.14	4.60	0.05				789	0
								12	45	42	1	10	52	7	30	0					
		40	5050		64		1428	17	103	153	5	37	503	63	185	1.0	0.5	0.21	--	803	466
11/11/67	1345		--		8.6			0.85	8.47	6.65	0.13	1.23	8.24	1.31	5.22	0.02				812	0
								5	53	41	1	8	51	8	33	0					
28S/10E-32G01M		40	5050		--		1825	73	78	224	1	0	433	68	379	20.0	0.8	0.26	20	1100	503
07/07/63	--		--		8.1			3.64	6.41	9.74	0.02	0.00	7.10	1.41	10.69	0.32				1077	148
								18	32	49	0	0	36	7	55	2					
28S/10E-32G02M		40	5788		--		2400	198	57	230	1	0	361	58	585	17.0	0.4	0.29	21	1502	729
07/07/63	1100		--		7.5			9.88	4.69	10.00	0.02	0.00	6.24	1.21	16.50	0.27				1355	416
								40	19	41	0	0	26	5	68	1					
28S/10E-32G03M		40	5050		--		2425	154	101	264	1	0	610	71	537	37.0	0.3	0.14	22	1593	800
07/07/63	1000		--		8.0			7.68	8.31	11.48	0.02	0.00	10.00	1.48	15.14	0.60				1488	300
								28	30	42	0	0	37	5	56	2					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
CAMBRIA HYDRO SUBUNIT																				
CAYUCOS HYDRO SUBAREA						T10A6														
28S/10E-32J01M		40	5050	--		1000	40	15	182	3	0	79	36	328	4.3	0.3	2.15	47	744	162
09/27/61	--		--	7.9			1.99	1.23	7.92	0.08	0.00	1.29	0.75	9.25	0.07				697	97
							18	11	70	1	0	11	7	81	1					
		40	5788	--		2045	142	10	265	1	6	12	55	626	0.0	0.1	2.92	23	1378	396
07/07/63	--		--	8.7			7.08	0.82	11.53	0.02	0.20	0.20	1.14	17.65	0.00				1137	376
							36	4	59	0	1	1	6	92	0					
28S/10E-32J02M		40	5788	--		1270	69	79	102	8	0	518	29	187	15.0	0.2	0.26	21	748	497
10/24/62	1310		--	8.1			3.44	6.50	4.44	0.20	0.00	8.49	0.60	5.27	0.24				766	72
							24	44	30	1	0	58	4	36	2					
		40	5050	70		1406	77	91	108	11	0	708	38	126	26.0	0.5	0.24	30	800	566
09/23/63	900		--	7.8			3.84	7.48	4.70	0.28	0.00	11.60	0.79	3.55	0.42				856	8
							24	46	29	2	0	71	5	22	3					
28S/10E-32J03M		40	5050	--		600	7	0	118	1	0	137	2	119	1.2	0.1	2.30	34	346	18
07/08/63	--		--	8.2			0.35	0.00	5.13	0.02	0.00	2.24	0.04	3.35	0.02				352	0
							6	0	93	0	0	40	1	59	0					
28S/10E-32K01M		40	5050	--		1710	112	9	228	2	0	24	50	532	4.3	0.3	2.70	22	1143	317
09/27/61	--		--	7.4			5.59	0.74	9.92	0.05	0.00	0.39	1.04	15.00	0.07				975	297
							34	4	61	0	0	2	6	91	0					
		40	5050	--		1930	146	5	237	2	0	27	52	592	3.7	0.4	2.25	20	1312	385
07/08/63	--		--	8.2			7.28	0.41	10.31	0.05	0.00	0.44	1.08	16.69	0.06				1074	363
							40	2	57	0	0	2	6	91	0					
28S/10E-33B02M		40	5050	--		1052	62	56	77	1	0	467	16	110	6.2	0.7	0.17	21	546	385
07/20/61	--		--	7.9			3.09	4.60	3.35	0.02	0.00	7.65	0.33	3.10	0.10				580	2
							28	42	30	0	0	68	3	28	1					
		40	5050	--		860	67	58	43	1	0	397	56	83	1.9	0.3	0.14	21	511	406
07/06/63	--		--	8.1			3.34	4.77	1.87	0.02	0.00	6.51	1.16	2.34	0.03				527	80
							33	48	19	0	0	65	12	23	0					
28S/10E-33D01M		40	5787	55		3302	90	168	386	4	0	409	53	950	8.0	0.9	0.14	21	2190	916
02/02/62	1530		--	7.8			4.49	13.82	16.79	0.10	0.00	6.70	1.10	26.79	0.13				1883	581
							13	39	48	0	0	19	3	77	0					
		40	5788	--		1800	69	73	230	1	0	479	36	365	19.0	1.0	0.44	7	984	472
10/30/62	1020		--	8.0			3.44	6.00	10.00	0.02	0.00	7.85	0.75	10.29	0.31				1037	79
							18	34	51	0	0	41	4	54	2					
28S/10E-33E01M		40	5050	--		1123	66	72	75	0	0	522	33	103	32.0	0.5	0.25	23	619	461
07/20/61	--		--	7.9			3.29	5.92	3.26	0.00	0.00	8.55	0.69	2.90	0.52				662	33
							26	47	26	0	0	68	5	23	4					
		40	5050	--		1330	2	2	331	1	42	506	42	113	46.0	0.4	0.22	23	877	13
07/06/63	--		--	8.7			0.10	0.16	14.40	0.02	1.40	8.29	0.87	3.19	0.74				852	0
							1	1	98	0	10	57	6	22	5					
		40	5050	--		1079	41	71	104	1	29	466	35	98	23.0	0.4	0.30	--	636	395
07/14/64	--		--	8.4			2.04	5.84	4.52	0.02	0.97	7.64	0.73	2.76	0.37				632	0
							16	47	36	0	8	61	6	22	3					
28S/10E-33E03M		40	5050	--		4970	193	216	340	1	0	574	115	1067	60.0	0.4	0.26	23	2462	1371
09/27/61	--		--	7.9			9.63	17.76	14.79	0.02	0.00	9.41	2.39	30.09	0.97				2298	980
							23	42	35	0	0	22	6	70	2					
		40	5788	64		3500	177	215	325	1	0	592	101	984	36.0	0.2	0.43	13	2276	1327
10/30/62	1050		--	7.8			8.83	17.68	14.14	0.02	0.00	9.70	2.10	27.75	0.58				2144	841
							22	43	35	0	0	24	5	69	1					
		40	5050	--		3080	165	179	292	2	0	561	98	805	76.0	0.4	0.26	18	2189	1148
07/06/63	--		--	7.8			8.23	14.72	12.70	0.05	0.00	9.19	2.04	22.70	1.22				1912	688
							23	41	36	0	0	26	6	65	3					
		40	5050	--		3607	156	195	326	2	0	567	105	905	56.0	0.5	0.31	--	2294	1192
07/14/64	--		--	7.1			7.78	16.04	14.18	0.05	0.00	9.29	2.19	25.52	0.90				2025	727
							20	42	37	0	0	24	6	67	2					
		40	5050	--		3739	143	193	340	2	0	564	123	883	80.0	0.5	0.31	--	2310	1151
08/03/65	--		--	8.2			7.13	15.87	14.79	0.05	0.00	9.24	2.56	24.90	1.29				2043	688
							19	42	39	0	0	24	7	65	3					
28S/10E-33E04M		40	5050	--		1340	48	77	138	4	6	452	79	177	29.0	0.7	0.35	15	791	437
07/06/63	--		--	8.4			2.39	6.33	6.00	0.10	0.20	7.41	1.64	4.99	0.47				797	56
							16	43	40	1	1	50	11	34	3					
28S/10E-33E05M		40	5787	73		2076	64	83	271	3	0	630	86	367	2.0	0.4	0.60	30	1480	501
02/02/62	1545		--	7.3			3.19	6.82	11.79	0.08	0.00	10.32	1.79	10.35	0.03				1217	0
							15	31	54	0	0	46	8	46	0					
		40	5788	66		2050	76	94	270	1	0	668	72	370	2.0	0.4	0.52	22	1220	576
10/30/62	1000		--	7.8			3.79	7.73	11.74	0.02	0.00	10.95	1.50	10.43	0.03				1237	28
							16	33	50	0	0	48	6	45	0					
		40	5050	--		2070	74	103	254	2	0	656	87	378	8.1	0.7	0.41	28	1267	608
07/06/63	--		--	8.0			3.69	8.47	11.05	0.05	0.00	10.75	1.81	10.66	0.13				1258	70
							16	36	47	0	0	46	8	46	1					
		40	5050	65		1480	--	--	--	--	19	557	--	162	0.8	--	--	--	--	--
09/27/66	1030		--	8.6							0.63	9.13		4.57	0.01				--	--
		40	5050	61		1572	76	101	140	9	--	723	62	182	2.0	0.6	0.22	--	955	605
05/23/67	1310		--	8.1			3.79	8.31	6.09	0.23		11.85	1.29	5.13	0.03				929	0
							21	45	33	1		65	7	28	0					
28S/10E-33E06M		40	5050	--		2070	100	103	122	8	0	586	53	264	66.0	0.3	0.18	26	1181	674
09/27/61	--		--	7.9			4.99	8.47	5.31	0.20	0.00	9.60	1.10	7.44	1.06				1030	193
							26	45	28	1	0	50	6	39	5					
		40	5788	68		1340	70	86	113	1	0	580	44	152	36.0	0.2	0.35	20	850	528
10/30/62	1110		--	7.6			3.49	7.07	4.91	0.02	0.00	9.51	0.92	4.29	0.58				808	52
							22	46	32	0	0	62	6	28	4					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLE	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																				
CAYUCOS HYDRO SUBAREA						T10A6														
28S/10E-33E06M		40	5050	--		1307	70	81	90	1	0	507	36	163	27.0	0.5	0.23	--	750	508
07/27/65	--		--		8.1		3.49	6.66	3.91	0.02	0.00	8.31	0.75	4.60	0.43				718	92
							25	47	28	0	0	59	5	33	3					
28S/10E-33E07M		40	5050	--		1330	71	86	112	1	0	510	42	190	33.0	0.3	0.24	20	848	531
07/06/63	--		--		8.2		3.54	7.07	4.87	0.02	0.00	8.36	0.87	5.36	0.53				807	113
							23	46	31	0	0	55	6	35	3					
28S/10E-33E08M		40	5050	--		1205	67	77	99	0	0	567	42	108	40.0	0.4	0.27	21	760	484
07/06/63	--		--		8.0		3.34	6.33	4.31	0.00	0.00	9.29	0.87	3.04	0.64				734	19
							24	45	31	0	0	67	6	22	5					
28S/10E-33E10M		40	5050	--		3100	120	137	245	1	0	668	73	525	71.0	0.3	0.29	25	1513	864
09/27/61	--		--		8.0		5.99	11.27	10.66	0.02	0.00	10.95	1.52	14.80	1.14				1526	316
							21	40	38	0	0	38	5	52	4					
		40	5050	--		1140	65	64	99	1	18	497	36	99	19.0	0.4	0.25	20	684	425
07/07/63	--		--		8.5		3.24	5.26	4.31	0.02	0.60	8.14	0.75	2.79	0.31				666	0
							25	41	33	0	5	65	6	22	2					
		40	5050	--		1268	71	77	92	1	0	546	33	135	15.0	0.5	0.26	--	714	494
08/03/65	--		--		7.8		3.54	6.33	4.00	0.02	0.00	8.95	0.69	3.81	0.24				694	46
							25	45	29	0	0	65	5	28	2					
28S/10E-33E11M		40	5787	60		1895	63	83	216	3	0	484	42	383	14.0	1.1	0.38	7	1305	499
02/02/62	1600		--		8.2		3.14	6.82	9.39	0.08	0.00	7.93	0.87	10.80	0.22				1051	102
							16	35	48	0	0	40	4	54	1					
		40	5788	68		1470	49	57	180	1	0	506	40	201	23.0	1.0	0.30	10	824	357
10/30/62	1035		--		7.9		2.44	4.69	7.83	0.02	0.00	8.29	0.83	5.67	0.37				812	0
							16	31	52	0	0	55	5	37	2					
		40	5788	--		1600	53	64	207	1	30	433	35	268	28.0	0.6	0.27	--	964	395
07/14/64	--		--		8.6		2.64	5.26	9.00	0.02	1.00	7.10	0.73	7.56	0.45				900	0
							16	31	53	0	6	42	4	45	3					
28S/10E-33E12M		40	5787	72		1726	48	71	237	2	0	488	85	310	17.0	0.9	0.22	20	1235	412
02/02/62	--		--		8.2		2.39	5.84	10.31	0.05	0.00	8.00	1.77	8.74	0.27				1032	12
							13	31	55	0	0	43	9	46	1					
		40	5788	--		1700	46	78	235	1	0	523	48	318	17.0	0.6	0.27	--	1068	436
07/14/64	--		--		8.1		2.29	6.41	10.22	0.02	0.00	8.57	1.00	8.97	0.27				1001	7
							12	34	54	0	0	46	5	48	1					
28S/10E-33E13M		40	5788	--		1070	72	60	84	0	0	503	31	94	28.0	0.2	0.30	21	672	426
07/17/63	830		--		7.3		3.59	4.93	3.65	0.00	0.00	8.24	0.64	2.65	0.45				638	13
							29	40	30	0	0	69	5	22	4					
28S/10E-33F03M		40	5788	--		1020	64	59	83	0	0	485	29	94	19.0	0.2	0.30	20	644	402
07/17/63	1400		--		7.2		3.19	4.85	3.61	0.00	0.00	7.95	0.60	2.65	0.31				607	4
							27	42	31	0	0	69	5	23	3					
28S/10E-33F08M		40	5788	--		840	74	37	64	0	0	418	22	68	6.0	0.2	0.28	17	546	337
07/18/63	900		--		8.1		3.69	3.04	2.78	0.00	0.00	6.85	0.46	1.92	0.10				494	0
							39	32	29	0	0	73	5	21	1					
28S/10E-33F10M		40	5788	--		980	74	46	81	0	0	467	29	84	17.0	0.2	0.30	21	602	374
07/17/63	--		--		7.5		3.69	3.78	3.52	0.00	0.00	7.65	0.60	2.37	0.27				583	0
							34	34	32	0	0	70	5	22	2					
28S/10E-33F11M		40	5874	--		1300	72	61	90	1	32	428	35	129	18.0	0.6	0.32	--	708	431
12/08/65	--		--		8.4		3.59	5.02	3.91	0.02	1.07	7.01	0.73	3.64	0.29				650	27
							29	40	31	0	8	55	6	29	2					
28S/10E-33K02M		40	5786	--		1230	63	71	100	1	0	520	36	125	29.0	0.2	0.33	18	706	449
01/21/64	900		--		7.8		3.14	5.84	4.35	0.02	0.00	8.52	0.75	3.52	0.47				700	22
							23	44	33	0	0	64	6	27	3					
28S/10E-33L01M		40	5050	63		1260	63	62	121	1	0	485	36	129	24.4	0.8	0.29	--	710*	412
09/01/55	--		--		8.1		3.14	5.10	5.26	0.02	0.00	7.95	0.75	3.64	0.39				676*	14
							23	38	39	0	0	62	6	29	3					
		40	5050	--		1250	66	73	110	1	0	519	33	135	79.0	0.5	0.23	22	670	465
07/20/61	--		--		8.0		3.29	6.00	4.78	0.02	0.00	8.51	0.69	3.81	1.27				775	39
							23	42	34	0	0	60	5	27	9					
		40	5788	--		1120	67	64	95	0	0	519	33	116	24.0	0.1	0.33	--	680	430
07/14/64	--		--		8.1		3.34	5.26	4.13	0.00	0.00	8.51	0.69	3.27	0.39				655	4
							26	41	32	0	0	66	5	25	3					
		40	5050	--		1255	66	73	97	1	17	475	36	136	35.0	0.5	0.25	--	718	465
08/03/65	--		--		8.4		3.29	6.00	4.22	0.02	0.57	7.78	0.75	3.83	0.56				696	47
							24	44	31	0	4	56	5	28	4					
28S/10E-33M01M		40	5050	64		1590	66	87	159	6	0	681	52	186	3.8	0.7	0.25	--	891*	522
06/15/55	--		--		8.1		3.29	7.15	6.92	0.15	0.00	11.16	1.08	5.24	0.06				896	0
							19	41	39	1	0	64	6	30	0					
		40	5050	--		1465	63	85	123	6	0	647	40	149	6.8	0.6	0.18	24	794	507
07/20/61	--		--		7.8		3.14	6.99	5.35	0.15	0.00	10.60	0.83	4.20	0.11				816	0
							20	45	34	1	0	67	5	27	1					
		40	5787	--		8741	477	665	382	12	0	510	198	2630	1.0	0.0	0.18	24	5500	3928
02/02/62	1240		--		7.1		23.80	54.69	16.62	0.31	0.00	8.36	4.12	74.16	0.02				4640*	3510
							25	57	17	0	0	10	5	86	0					
		40	5788	68		1500	71	89	155	5	0	705	65	177	0.0	0.2	0.25	18	776	543
10/30/62	1015		--		7.4		3.54	7.32	6.74	0.13	0.00	11.55	1.35	4.99	0.00				928	0
							20	41	38	1	0	64	8	28	0					
		40	5788	--		1540	72	80	160	6	0	706	44	179	0.0	0.2	0.28	21	1042	509
11/28/62	--		--		8.0		3.59	6.58	6.96	0.15	0.00	11.57	0.92	5.05	0.00				910	0
							21	38	40	1	0	66	5	29	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																				
OLD HYDRO SUBAREA						T10A7														
28S/10E-22DS1M		40	5874	--		740	55	41	25	1	0	315	35	39	14.0	0.5	0.10	--	464	306
12/08/65	--		--	7.8			2.74	3.37	1.09	0.02	0.00	5.16	0.73	1.10	0.22				366	48
							38	47	15	0	0	71	10	15	3					
28S/10E-26H02M		40	5874	66		980	81	43	50	1	0	423	64	44	4.0	0.4	0.15	--	556	379
12/08/65	--		--	7.5			4.04	3.54	2.17	0.02	0.00	6.93	1.33	1.24	0.06				496	32
							41	36	22	0	0	72	14	13	1					
28S/10E-34N02M		40	5787	--		866	68	50	45	1	0	401	80	37	1.0	0.4	0.30	15	646	375
03/02/59	--		--	7.8			3.39	4.11	1.96	0.02	0.00	6.57	1.66	1.04	0.02				495	46
							36	43	21	0	0	71	18	11	0					
		40	5787	--		959	68	53	51	1	0	412	72	55	1.0	0.2	0.14	15	694	388
04/22/59	1000		--	7.2			3.39	4.36	2.22	0.02	0.00	6.75	1.50	1.55	0.02				519	50
							34	44	22	0	0	69	15	16	0					
		40	5050	--		728	55	42	40	1	0	339	60	38	1.0	0.5	0.16	--	380	310
12/08/65	--		--	7.9			2.74	3.45	1.74	0.02	0.00	5.56	1.25	1.07	0.02				405	32
							34	43	22	0	0	70	16	14	0					
28S/10E-34N03M		40	5050	63		862	62	54	48	1	0	415	74	53	3.8	0.2	0.21	--	529*	377
06/16/55	--		--	7.4			3.09	4.44	2.09	0.02	0.00	6.80	1.54	1.49	0.06				501	37
							32	46	22	0	0	69	16	15	1					
28S/10E-34N04M		40	5787	--		934	60	62	52	1	0	433	83	58	0.0	0.0	0.00	21	648	405
08/23/57	--		--	7.6			2.99	5.10	2.26	0.02	0.00	7.10	1.73	1.63	0.00				550	50
							29	49	22	0	0	68	16	16	0					
		40	5050	--		784	71	53	47	0	0	409	72	57	1.0	0.3	0.08	30	490	395
10/05/57	--		--	8.0			3.54	4.36	2.04	0.00	0.00	6.70	1.50	1.61	0.02				533	60
							36	44	20	0	0	68	15	16	0					
28S/10E-35E05M		40	5050	64		1497	43	95	136	4	30	575	52	170	0.0	0.4	0.20	--	867	498
07/20/66	1030		--	8.3			2.14	7.81	5.91	0.10	1.00	9.42	1.08	4.79	0.00				814	0
							13	49	37	1	6	58	7	29	0					
29S/10E-02C01M		40	5788	67		980	45	60	90	1	0	441	24	98	11.0	0.1	0.23	30	614*	359
08/03/61	--		--	7.9			2.24	4.93	3.91	0.02	0.00	7.23	0.50	2.76	0.18				577	0
							20	44	35	0	0	68	5	26	2					
		40	5050	--		584	13	51	27	0	0	254	11	55	10.0	0.3	0.10	--	330	242
12/08/65	--		--	8.1			0.65	4.19	1.17	0.00	0.00	4.16	0.23	1.55	0.16				293	34
							11	70	19	0	0	68	4	25	3					
29S/10E-02E01M		40	5788	67		1510	83	109	90	1	0	663	37	195	1.4	0.1	0.32	28	942*	656
08/03/61	--		--	8.0			4.14	8.96	3.91	0.02	0.00	10.87	0.77	5.50	0.02				871	112
							24	53	23	0	0	63	4	32	0					
29S/10E-03C01M		40	5787	--		970	88	42	46	1	0	430	77	60	0.0	0.1	0.41	25	712	392
06/22/59	--		--	7.6			4.39	3.45	2	0.02	0.00	7.05	1.60	1.69	0.00				551	39
							44	35	20	0	0	68	15	16	0					
		40	5787	--		920	61	65	45	1	0	423	68	65	0.0	0.2	1.22	31	686	420
08/06/59	--		--	8.0			3.04	5.34	1.96	0.02	0.00	6.93	1.41	1.83	0.00				546	73
							29	51	19	0	0	68	14	18	0					
		40	5787	--		1032	72	68	49	2	0	439	77	89	0.0	0.2	0.00	34	759	459
12/02/59	--		--	7.3			3.59	5.59	2.13	0.05	0.00	7.19	1.60	2.51	0.00				608	99
							32	49	19	0	0	64	14	22	0					
		40	5787	--		1028	71	67	50	2	0	440	81	85	0.0	0.1	0.08	30	758	453
12/08/59	--		--	7.8			3.54	5.51	2.17	0.05	0.00	7.21	1.69	2.40	0.00				603	92
							31	49	19	0	0	64	15	21	0					
		40	5050	--		990	74	66	46	1	0	445	86	74	2.0	0.5	0.19	37	608	456
01/04/60	--		--	7.8			3.69	5.43	2	0.02	0.00	7.29	1.79	2.09	0.03				606	91
							33	49	18	0	0	65	16	19	0					
		40	5050	--		969	76	70	46	1	0	439	129	51	0.5	0.4	0.16	28	605	478
07/15/60	--		--	7.5			3.79	5.76	2	0.02	0.00	7.19	2.68	1.44	0.01				618	118
							33	50	17	0	0	63	24	13	0					
		40	5788	--		979	--	--	--	--	0	453	--	54	--	--	--	--	--	467
08/02/60	950		--	8.0							0.00	7.42		1.52					--	95
		40	5788	--		700	--	--	--	--	0	320	--	51	--	--	--	--	--	348
08/08/60	--		--	8.2							0.00	5.24		1.44					--	85
		40	5788	--		830	--	--	--	--	0	343	--	56	--	--	--	--	--	370
08/16/60	--		--	8.1							0.00	5.62		1.58					--	89
		40	5788	66		1000	74	68	50	1	0	464	110	54	0.0	0.2	0.17	22	626*	464
08/24/60	--		--	7.9			3.69	5.59	2.17	0.02	0.00	7.60	2.29	1.52	0.00				608	83
							32	49	19	0	0	67	20	13	0					
		40	5788	64		880	58	62	50	1	0	374	118	60	0.0	0.1	0.17	22	500*	400
09/07/60	--		--	8.2			2.89	5.10	2.17	0.02	0.00	6.13	2.46	1.69	0.00				556	93
							28	50	21	0	0	60	24	16	0					
		40	5788	--		840	--	--	--	--	0	369	--	61	--	--	--	--	--	382
09/20/60	--		--	8.2							0.00	6.05		1.72					--	79
		40	5050	--		3250	271	204	71	2	0	436	146	823	2.5	0.7	0.18	25	2199	1516
01/20/61	--		--	7.6			13.52	16.78	3.09	0.05	0.00	7.15	3.04	23.21	0.04				1760	1158
							40	50	9	0	0	21	9	69	0					
		40	5788	--		980	78	63	48	1	0	398	125	79	0.0	0.1	0.09	28	764*	454
05/10/61	--		--	8.0			3.89	5.18	2.09	0.02	0.00	6.52	2.60	2.23	0.00				610	128
							35	46	19	0	0	57	23	20	0					
		40	5788	--		645	32	51	39	1	0	312	58	37	0.0	0.4	0.18	--	406	290
08/13/64	--		--	8.2			1.60	4.19	1.70	0.02	0.00	5.11	1.21	1.04	0.00				372	34
							21	56	23	0	0	69	16	14	0					
		40	5050	--		--	66	58	40	1	0	355	71	43	0.2	0.2	--	--	565	403
09/20/66	1110		--	7.8			3.29	4.77	1.74	0.02	0.00	5.82	1.48	1.21	0.00				454*	112
							33	48	18	0	0	68	17	14	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY LAB SAMPLER	TEMP PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
					MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT OLD HYDRO SUBAREA					I10A7													
29S/10E-03C02M		40 5787	--	985	66	61	49	2	0	430	74	79	0.0	0.2	0.28	32	725	416
12/08/59	--	--	7.9		3.29	5.02	2.13	0.05	0.00	7.05	1.54	2.23	0.00				575	63
					31	48	20	0	0	65	14	21	0					
		40 5050	--	950	71	54	61	1	0	427	87	64	4.0	0.5	0.16	39	588	399
01/04/60	--	--	8.0		3.54	4.44	2.65	0.02	0.00	7.00	1.81	1.80	0.06				592	49
					33	42	25	0	0	65	17	17	1					
		40 5787	--	1114	74	76	46	1	0	438	144	64	0.0	0.2	0.12	28	762	497
03/22/60	--	--	7.3		3.69	6.25	2	0.02	0.00	7.18	3.00	1.80	0.00				649	138
					31	52	17	0	0	60	25	15	0					
		40 5788	--	650	34	47	39	1	0	310	58	39	0.0	0.2	0.15	--	424	279
08/13/64	--	--	8.2		1.70	3.86	1.70	0.02	0.00	5.08	1.21	1.10	0.00				371	25
					23	53	23	0	0	69	16	15	0					
		40 5050	--	--	56	49	38	1	0	294	76	36	0.0	0.3	--	--	495	341
09/20/66	1200	--	8.0		2.79	4.03	1.65	0.02	0.00	4.82	1.58	1.01	0.00				401*	100
					33	47	19	0	0	65	21	14	0					
		40 5050	--	842	57	61	38	1	--	425	62	53	0.0	0.3	0.10	--	522	392
06/06/67	1557	--	8.2		2.84	5.02	1.65	0.02		6.96	1.29	1.49	0.00				482	43
					30	53	17	0		71	13	15	0					
29S/10E-03C03M		40 5050	--	975	71	66	48	1	0	473	93	57	5.8	0.5	0.28	--	587	449
12/19/56	--	--	7.8		3.54	5.43	2.09	0.02	0.00	7.75	1.94	1.61	0.09				576	61
					32	49	19	0	0	68	17	14	1					
		40 5787	--	865	65	53	38	1	0	395	81	39	0.0	0.4	0.50	16	641	380
03/02/59	--	--	7.7		3.24	4.36	1.65	0.02	0.00	6.47	1.69	1.10	0.00				489	56
					35	47	18	0	0	70	18	12	0					
		40 5787	--	1005	70	63	50	1	0	467	86	40	3.0	0.2	0.52	11	744	434
04/22/59	1015	--	7.1		3.49	5.18	2.17	0.02	0.00	7.65	1.79	1.13	0.05				555	51
					32	48	20	0	0	72	17	11	0					
		40 5050	--	1010	71	67	52	1	12	445	85	71	3.0	0.5	0.25	25	614	453
01/04/60	--	--	7.3		3.54	5.51	2.26	0.02	0.40	7.29	1.77	2.00	0.05				607	68
					31	49	20	0	3	63	15	17	0					
		40 5050	--	1029	84	72	55	1	0	486	131	58	1.1	0.5	0.11	31	676	506
06/14/60	--	--	7.5		4.19	5.92	2.39	0.02	0.00	7.96	2.73	1.63	0.02				673	187
					33	47	19	0	0	64	22	13	0					
		40 5788	--	1030	69	74	60	1	0	482	117	62	1.8	0.3	0.17	20	675*	477
08/02/60	930	--	7.9		3.44	6.08	2.61	0.02	0.00	7.90	2.43	1.75	0.03				643	82
					28	50	21	0	0	65	20	14	0					
		40 5788	--	820	--	--	--	--	0	358	--	69	--	--	--	--	--	371
08/08/60	--	--	8.2						0.00	5.87		1.94					--	77
		40 5788	65	1075	--	--	--	--	0	509	--	87	--	--	--	--	--	505
08/16/60	--	--	7.8						0.00	8.34		2.45					--	87
		40 5788	64	820	--	--	--	--	8	293	--	65	--	--	--	--	--	370
08/24/60	--	--	8.3						0.27	4.80		1.83					--	116
		40 5788	--	850	--	--	--	--	0	348	--	65	--	--	--	--	--	365
09/07/60	--	--	8.1						0.00	5.70		1.83					--	80
		40 5788	--	820	--	--	--	--	0	354	--	68	--	--	--	--	--	372
09/20/60	--	--	8.2						0.00	5.80		1.92					--	82
29S/10E-03C04M		40 5050	63	905	70	51	39	1	0	366	80	60	4.3	0.7	0.17	--	550*	384
09/01/55	--	--	8.1		3.49	4.19	1.70	0.02	0.00	6.00	1.66	1.69	0.07				487	84
					37	45	18	0	0	64	18	18	1					
		40 5050	--	940	71	63	48	1	18	104	81	67	1.6	0.4	0.19	36	573	436
01/04/60	--	--	8.4		3.54	5.18	2.09	0.02	0.60	1.70	1.69	1.89	0.02				439*	321
					33	48	19	0	10	29	28	32	0					
		40 5050	--	740	62	50	33	1	0	351	61	50	5.0	0.4	0.11	17	445	360
07/08/63	--	--	7.8		3.09	4.11	1.43	0.02	0.00	5.75	1.27	1.41	0.08				453	72
					36	47	17	0	0	68	15	17	1					
29S/10E-03C06M		40 5787	--	1089	72	72	46	1	0	437	130	54	0.0	0.3	0.27	30	785	476
03/22/60	--	--	7.3		3.59	5.92	2	0.02	0.00	7.16	2.71	1.52	0.00				621	118
					31	51	17	0	0	63	24	13	0					
		40 5050	--	970	56	66	46	1	0	384	116	51	0.6	0.4	0.12	30	547	411
08/02/60	950	--	8.2		2.79	5.43	2	0.02	0.00	6.29	2.41	1.44	0.01				556	96
					27	53	19	0	0	62	24	14	0					
		40 5788	--	800	--	--	--	--	0	387	--	60	--	--	--	--	--	395
08/08/60	--	--	8.0						0.00	6.34		1.69					--	78
		40 5788	--	810	--	--	--	--	0	331	--	56	--	--	--	--	--	359
08/16/60	--	--	8.2						0.00	5.42		1.58					--	67
		40 5788	64	980	--	--	--	--	--	455	--	61	--	--	--	--	--	447
08/24/60	--	--	7.6							7.46		1.72					--	74
		40 5788	64	790	--	--	--	--	--	311	--	58	--	--	--	--	--	327
09/07/60	--	--	8.1							5.10		1.63					--	72
		40 5788	--	950	--	--	--	--	0	446	--	75	--	--	--	--	--	446
09/20/60	--	--	8.0						0.00	7.31		2.11					--	80
		40 5788	--	1000	30	79	49	1	0	376	116	65	1.3	0.3	0.21	23	665*	400
07/31/61	--	--	8.1		1.50	6.50	2.13	0.02	0.00	6.16	2.41	1.83	0.02				550	92
					15	64	21	0	0	59	23	18	0					
29S/10E-03C07M		40 5787	--	1065	83	72	47	1	0	437	138	60	4.0	0.4	0.00	27	795	503
03/00/60	--	--	7.3		4.14	5.92	2.04	0.02	0.00	7.16	2.87	1.69	0.06				648	145
					34	49	17	0	0	61	24	14	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
CAMBRIA HYDRO SUBUNIT OLD HYDRO SUBAREA						I10A7														
29S/10E-03C07M		40	5788	--		980	68	61	61	2	0	453	103	53	0.0	0.2	0.21	20	615*	421
08/02/60	930		--		7.6		3.39	5.02	2.65	0.05	0.00	7.42	2.14	1.49	0.00				592	49
							30	45	24	0	0	67	19	13	0					
08/08/60	--	40	5788	--	8.1	840	--	--	--	--	0	407	--	55	--	--	--	--	--	406
			--								0.00	6.67		1.55					--	72
08/16/60	--	40	5788	--	8.2	770	--	--	--	--	--	293	--	63	--	--	--	--	--	322
			--									4.80		1.78					--	82
08/24/60	--	40	5788	--	8.3	730	--	--	--	--	5	259	--	54	--	--	--	--	--	331
			--								0.17	4.24		1.52					--	110
09/07/60	--	40	5788	--	8.0	840	--	--	--	--	0	351	--	59	--	--	--	--	--	385
			--								0.00	5.75		1.66					--	97
09/20/60	--	40	5788	--	7.7	960	--	--	--	--	0	461	--	60	--	--	--	--	--	451
			--								0.00	7.55		1.69					--	73
29S/10E-03G01M		40	5050	--	7.5	1090	77	63	71	1	0	509	88	67	3.5	0.3	0.35	--	626*	451
12/19/56	--		--				3.84	5.18	3.09	0.02	0.00	8.34	1.83	1.89	0.06				622	33
							32	43	25	0	0	69	15	16	0					
08/23/57	--	40	5787	--	7.6	1104	62	61	89	2	0	477	86	89	0.0	0.0	0.00	21	770	406
			--				3.09	5.02	3.87	0.05	0.00	7.82	1.79	2.51	0.00				645	15
							26	42	32	0	0	64	15	21	0					
09/04/57	--	40	5787	--	7.4	1137	--	--	--	--	0	482	--	93	--	--	--	--	--	407
			--								0.00	7.90		2.62					--	12
09/14/57	--	40	5787	--	7.8	1138	64	66	96	1	0	481	76	102	0.0	0.1	0.60	21	791	431
			--				3.19	5.43	4.17	0.02	0.00	7.88	1.58	2.88	0.00				664	36
							25	42	33	0	0	64	13	23	0					
09/28/57	--	40	5787	--	7.5	1202	--	--	--	--	0	494	--	108	--	--	--	--	--	438
			--								0.00	8.10		3.04					--	33
10/12/57	--	40	5787	--	7.6	1189	--	--	--	--	--	488	--	112	--	--	--	--	--	450
			--									8.00		3.16					--	50
11/01/57	--	40	5050	--	7.8	937	67	65	55	2	0	487	79	79	0.5	0.4	0.12	25	620	485
			--				4.34	5.34	2.39	0.05	0.00	7.98	1.64	2.23	0.01				633	86
							36	44	20	0	0	67	14	19	0					
07/22/58	--	40	5787	--	7.3	778	56	50	39	1	0	358	75	45	0.0	0.2	0.30	16	588	345
			--				2.79	4.11	1.70	0.02	0.00	5.87	1.56	1.27	0.00				459	51
							32	48	20	0	0	67	18	15	0					
08/22/58	--	40	5787	--	7.3	793	52	52	41	2	0	372	71	46	0.0	0.3	0.20	24	583	344
			--				2.59	4.28	1.78	0.05	0.00	6.10	1.48	1.30	0.00				472	39
							30	49	20	1	0	69	17	15	0					
09/11/58	--	40	5787	--	7.2	790	54	54	41	2	0	374	73	42	0.0	0.3	0.35	24	582	357
			--				2.69	4.44	1.78	0.05	0.00	6.13	1.52	1.18	0.00				475	50
							30	49	20	1	0	69	17	13	0					
09/25/58	--	40	5787	--	7.9	817	58	51	44	2	0	383	59	46	0.0	0.4	0.40	24	568	354
			--				2.89	4.19	1.91	0.05	0.00	6.28	1.23	1.30	0.00				474	40
							32	46	21	1	0	71	14	15	0					
09/30/58	--	40	5787	--	7.2	841	58	54	42	2	0	381	71	49	0.0	0.2	0.30	21	594	367
			--				2.89	4.44	1.83	0.05	0.00	6.24	1.48	1.38	0.00				485	54
							31	48	20	0	0	69	16	15	0					
02/04/59	--	40	5787	--	7.5	1053	74	62	49	2	0	486	75	50	0.0	0.3	0.20	20	784	440
			--				3.69	5.10	2.13	0.05	0.00	7.96	1.56	1.41	0.00				572	41
							34	46	19	0	0	73	14	13	0					
02/27/59	--	40	5050	--	8.1	1030	51	89	47	2	0	500	88	53	2.4	0.0	0.17	25	628	493
			--				2.54	7.32	2.04	0.05	0.00	8.19	1.83	1.49	0.04				604	83
							21	61	17	0	0	71	16	13	0					
04/22/59	1030	40	5787	--	7.2	986	68	58	65	2	0	451	82	63	0.0	0.2	0.04	8	741	408
			--				3.39	4.77	2.83	0.05	0.00	7.39	1.71	1.78	0.00				568	38
							31	43	26	0	0	68	16	16	0					
07/28/59	--	40	5787	--	7.5	1155	73	63	81	2	0	483	97	92	0.0	0.3	0.12	29	848	441
			--				3.64	5.18	3.52	0.05	0.00	7.92	2.02	2.59	0.00				675	45
							29	42	28	0	0	63	16	21	0					
12/08/59	--	40	5787	--	7.6	1318	77	72	98	2	0	492	97	149	1.0	0.2	0.04	29	955	488
			--				3.84	5.92	4.26	0.05	0.00	8.06	2.02	4.20	0.02				768	84
							27	42	30	0	0	56	14	29	0					
01/04/60	--	40	5050	--	7.5	1400	86	78	96	0	0	488	98	174	2.0	0.5	0.20	30	816	535
			--				4.29	6.41	4.17	0.00	0.00	8.00	2.04	4.91	0.03				805	135
							29	43	28	0	0	53	14	33	0					
06/14/60	--	40	5050	--	7.5	1429	100	83	100	2	0	508	108	193	1.7	0.6	0.10	37	911	591
			--				4.99	6.82	4.35	0.05	0.00	8.33	2.25	5.44	0.03				876	174
							31	42	27	0	0	52	14	34	0					
06/27/60	--	40	5050	--	8.0	1428	95	83	102	1	0	512	103	186	1.0	0.6	0.12	30	880	579
			--				4.74	6.82	4.44	0.02	0.00	8.39	2.14	5.24	0.02				854	159
							30	43	28	0	0	53	14	33	0					
07/15/60	--	40	5050	--	7.4	1453	95	88	105	1	0	525	105	194	1.0	0.4	0.16	30	905	599
			--				4.74	7.24	4.57	0.02	0.00	8.60	2.19	5.47	0.02				878	168
							29	44	28	0	0	53	13	34	0					
01/20/61	--	40	5050	--	7.8	5350	399	359	230	3	0	412	213	1624	5.6	0.6	0.17	27	3578	2473
			--				19.91	29.52	10.00	0.08	0.00	6.75	4.43	45.80	0.09				3064	2135
							33	50	17	0	0	12	8	80	0					
07/31/61	--	40	5788	--	8.1	3950	242	210	240	2	0	573	168	949	0.0	0.0	0.22	25	3804*	1469
			--				12.07	17.27	10.44	0.05	0.00	9.39	3.50	26.76	0.00				2118	999
							30	43	26	0	0	24	9	67	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLEN	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																				
OLD HYDRO SUBAREA							T1WA7													
29S/10E-03G01M		40	5050	62		3110	189	205	193	2	0	500	152	808	6.2	0.4	0.11	26	2271	1316
10/31/61	--		--		8.1		9.43	16.86	8.39	0.05	0.00	8.19	3.16	22.78	0.10				1828	906
							27	48	24	0	0	24	9	66	0					
		40	5788	--		840	79	47	47	2	0	451	65	46	0.0	0.2	0.21	19	526	391
10/25/62	1503		--		7.9		3.94	3.86	2.04	0.05	0.00	7.39	1.35	1.30	0.00				528	21
							40	39	21	0	0	74	13	13	0					
		40	5050	--		1050	76	60	54	2	0	381	67	121	3.1	0.4	0.14	20	655	436
07/08/63	--		--		7.7		3.79	4.93	2.35	0.05	0.00	6.24	1.39	3.41	0.05				591	123
							34	44	21	0	0	56	13	31	0					
		40	5050	68		1370	93	77	92	2	29	407	84	200	0.5	0.4	0.18	31	850	549
09/23/63	1030		--		8.4		4.64	6.33	4.00	0.05	0.97	6.67	1.75	5.64	0.01				810	167
							31	42	27	0	6	44	12	37	0					
		40	5788	--		920	50	68	52	1	0	390	79	78	0.0	0.2	0.15	--	576	405
07/09/64	--		--		8.1		2.49	5.59	2.26	0.02	0.00	6.39	1.64	2.20	0.00				521	85
							24	54	22	0	0	62	16	21	0					
		40	5050	--		735	18	54	42	0	0	228	13	111	8.0	0.2	0.05	--	444	267
08/03/65	--		--		8.2		0.90	4.44	1.83	0.00	0.00	3.74	0.27	3.13	0.13				359	60
							12	62	25	0	0	51	4	43	2					
		40	5874	64		1660	100	89	97	2	0	405	92	287	8.0	0.5	0.23	--	1216	616
10/05/65	910		--		8.1		4.99	7.32	4.22	0.05	0.00	6.64	1.91	8.09	0.13				875	284
							30	44	25	0	0	40	11	48	1					
29S/10E-03GS1M		40	5788	--		700	25	46	46	1	0	227	14	104	7.0	0.1	0.08	--	444	252
07/09/64	--		--		8.2		1.25	3.78	2	0.02	0.00	3.72	0.29	2.93	0.11				355	66
							18	54	28	0	0	53	4	41	2					
		40	5050	68		1707	116	95	93	2	0	451	89	295	4.0	0.4	0.14	--	1040	681
08/03/65	--		--		7.6		5.79	7.81	4.04	0.05	0.00	7.39	1.85	8.32	0.06				917	311
							33	44	23	0	0	42	10	47	0					
29S/10E-03GS2M		40	5786	65		690	22	51	48	0	0	232	24	106	4.3	0.1	0.13	51	412	265
12/04/63	--		--		7.9		1.10	4.19	2.09	0.00	0.00	3.80	0.50	2.99	0.07				421	75
							15	57	28	0	0	52	7	41	1					
29S/10E-03G05M		40	5787	--		1056	74	68	48	1	0	463	78	68	0.0	0.1	0.27	30	770	464
03/22/60	--		--		7.4		3.69	5.59	2.09	0.02	0.00	7.59	1.62	1.92	0.00				595	84
							32	49	18	0	0	66	15	17	0					
		40	5785	--		989	69	73	50	1	0	468	103	60	0.0	0.3	0.22	23	652*	472
08/02/60	940		--		7.9		3.44	6.00	2.17	0.02	0.00	7.67	2.14	1.69	0.00				610	88
							30	51	19	0	0	67	19	15	0					
		40	5768	--		740	--	--	--	--	11	267	--	60	--	--	--	--	--	328
08/08/60	--		--		8.3						0.37	4.36		1.69					--	91
		40	5786	--		1100	--	--	--	--	0	478	--	68	--	--	--	--	--	464
08/16/60	--		--		7.7						0.00	7.83		1.92					--	72
		40	5768	60		870	--	--	--	--	3	383	--	68	--	--	--	--	--	384
08/24/60	--		--		8.3						0.10	6.28		1.92					--	65
		40	5788	64		1000	--	--	--	--	--	471	--	73	--	--	--	--	--	446
09/07/60	--		--		7.7							7.72		2.06					--	55
		40	5788	--		960	--	--	--	--	0	478	--	60	--	--	--	--	--	459
09/20/60	--		--		7.8						0.00	7.83		1.69					--	67
		40	5050	--		982	73	71	48	1	9	433	94	67	2.5	0.4	--	--	604	474
01/20/61	--		--		8.5		3.64	5.84	2.09	0.02	0.30	7.10	1.96	1.89	0.04				579	104
							31	50	18	0	3	63	17	17	0					
TORO HYDRO SUBAREA							T10A8													
29S/10E-11H01M		40	5786	59		1042	72	77	39	1	0	435	53	119	6.2	0.0	0.10	--	778*	496
05/29/54	--		--		7.9		3.59	6.33	1.70	0.02	0.00	7.13	1.10	3.35	0.10				582	139
							31	54	15	0	0	61	9	29	1					
		40	5050	60		1110	72	75	37	1	0	455	57	106	2.5	0.1	0.18	--	656*	488
06/16/55	--		--		8.3		3.59	6.17	1.61	0.02	0.00	7.46	1.19	2.99	0.04				575	115
							31	54	14	0	0	64	10	26	0					
		40	5050	62		1060	67	79	35	1	0	454	56	105	5.1	0.4	0.10	--	606*	492
09/01/55	--		--		8.2		3.34	6.50	1.52	0.02	0.00	7.44	1.16	2.96	0.08				572	120
							29	57	13	0	0	64	10	25	1					
		40	5050	--		1020	76	79	38	1	0	467	56	110	4.5	0.2	0.12	--	628	515
08/29/57	--		--		7.9		3.79	6.50	1.65	0.02	0.00	7.65	1.16	3.10	0.07				595	132
							32	54	14	0	0	64	10	26	1					
		40	5787	61		1118	76	78	42	1	0	422	63	129	2.0	0.1	0.04	31	684	510
07/28/59	--		--		7.4		3.79	6.41	1.83	0.02	0.00	6.92	1.31	3.64	0.03				630	164
							31	53	15	0	0	58	11	31	0					
		40	5788	--		1042	42	83	40	1	0	330	49	65	2.1	0.1	0.21	26	628*	447
06/27/60	--		--		8.2		2.09	6.82	1.74	0.02	0.00	5.41	1.02	1.83	0.03				471*	176
							20	64	16	0	0	65	12	22	0					
		40	5050	60		1135	82	84	40	1	0	470	67	121	4.3	0.2	0.11	29	689	550
11/01/61	--		--		7.4		4.09	6.91	1.74	0.02	0.00	7.70	1.39	3.41	0.07				660	164
							32	54	14	0	0	61	11	27	0					
		40	5788	--		1070	50	90	46	1	0	440	68	116	2.0	0.1	0.12	--	678	495
07/09/64	--		--		8.2		2.49	7.40	2	0.02	0.00	7.21	1.41	3.27	0.03				590	134
							21	62	17	0	0	60	12	27	0					
		40	5874	58		1200	76	73	45	2	0	425	70	120	4.0	0.3	0.19	--	732	490
10/05/65	900		--		8.0		3.79	6.00	1.96	0.05	0.00	6.96	1.46	3.38	0.06				600	141
							32	51	17	0	0	59	12	28	0					

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLEN	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
CAMBRIA HYDRO SUBUNIT																				
TORO HYDRO SUBAREA						T10A8														
29S/10E-11H01M		40	5050	59		1000	--	--	--	--	6	350	--	110	2.5	--	--	--	--	--
09/27/66	1300		--	8.4							0.20	5.74		3.10	0.04				--	--
29S/11E-06L01M		40	5050	--		868	59	65	33	1	0	431	79	32	0.0	0.3	0.10	--	525	415
12/08/65	--		--	7.6			2.94	5.34	1.43	0.02	0.00	7.06	1.64	0.90	0.00				482	61
							30	55	15	0	0	73	17	9	0					
		40	5050	66		840	58	63	31	1	0	425	70	30	0.3	--	0.20	--	482	404
09/27/66	1330		--	8.3			2.89	5.18	1.35	0.02	0.00	6.96	1.46	0.85	0.00				463	55
							31	55	14	0	0	75	16	9	0					
		40	5050	62		790	58	64	33	0	37	351	70	35	1.0	0.6	0.08	--	460	408
11/17/67	1000		--	8.6			2.89	5.26	1.43	0.00	1.23	5.75	1.46	0.99	0.02				472	59
							30	55	15	0	13	61	15	10	0					
SAN LUIS OBISPO HYDRO SUBUNIT																				
MORRO HYDRO SUBAREA						T10B1														
29S/10E-23R01M		40	5050	68		2444	80	74	357	11	0	430	195	532	6.8	0.3	0.30	19	1526	504
04/30/63	1400		--	7.7			3.99	6.08	15.53	0.28	0.00	7.05	4.06	15.00	0.11				1487	151
							15	23	60	1	0	27	15	57	0					
29S/10E-24N01M		40	5050	68		3165	108	122	538	4	0	1046	358	475	22.0	0.4	0.43	24	2191	772
04/30/63	1100		--	7.5			5.39	10.03	23.40	0.10	0.00	17.14	7.45	13.39	0.35				2167	0
							14	26	60	0	0	45	19	35	1					
		40	5788	68		2850	223	24	540	1	0	997	305	468	24.0	0.1	0.59	22	2016	656
10/15/63	1250		--	8.0			11.13	1.97	23.49	0.02	0.00	16.34	6.35	13.20	0.39				2098	0
							30	5	64	0	0	45	17	36	1					
		40	5768	64		3000	104	105	535	3	0	1007	295	479	23.0	0.1	0.45	30	2062	692
03/22/64	1120		--	7.5			5.19	8.63	23.27	0.08	0.00	16.50	6.14	13.51	0.37				2070	0
							14	23	63	0	0	45	17	37	1					
29S/10E-25B03M		40	5788	--		1333	109	114	40	--	0	608	146	123	8.9	--	--	--	844	742
12/11/62	--		--	7.1			5.44	9.37	1.74		0.00	9.96	3.04	3.47	0.14				840	243
							33	57	10		0	60	18	21	1					
29S/10E-25C01M		40	5050	--		1240	79	92	57	0	0	546	63	131	2.0	0.4	0.17	18	697	576
01/04/60	--		--	7.8			3.94	7.57	2.48	0.00	0.00	8.95	1.31	3.69	0.03				711	128
							28	54	18	0	0	64	9	26	0					
		40	5787	60		1331	66	97	56	1	0	526	48	131	1.0	0.4	0.00	12	930	564
03/22/60	--		--	7.1			3.29	7.98	2.43	0.02	0.00	8.62	1.00	3.69	0.02				671	133
							24	58	18	0	0	65	7	28	0					
		40	5788	--		1249	77	85	57	0	0	560	74	93	0.0	0.1	0.17	10	766*	542
08/02/60	1110		--	8.2			3.84	6.99	2.48	0.00	0.00	9.18	1.54	2.62	0.00				672	83
							29	52	19	0	0	69	11	20	0					
		40	5788	--		1040	20	89	63	1	18	309	78	126	0.0	0.1	0.11	8	696*	416
08/08/60	--		--	8.5			1.00	7.32	2.74	0.02	0.60	5.06	1.62	3.55	0.00				556	132
							9	66	25	0	5	47	15	33	0					
		40	5788	--		1160	39	91	63	1	0	443	136	0	0.0	0.1	0.25	12	702*	472
08/16/60	--		--	8.2			1.95	7.48	2.74	0.02	0.00	7.26	2.83	0.00	0.00				561*	109
							16	61	22	0	0	72	28	0	0					
		40	5788	--		1080	23	94	68	1	8	358	78	139	0.0	0.1	0.19	17	594*	444
08/24/60	--		--	8.5			1.15	7.73	2.96	0.02	0.27	5.87	1.62	3.92	0.00				605	137
							10	65	25	0	2	50	14	34	0					
		40	5788	--		1350	--	--	--	--	--	568	--	131	--	--	--	--	--	596
09/07/60	--		--	7.7								9.31		3.69					--	117
		40	5656	--		1290	93	103	33	--	0	573	97	108	2.5	--	--	--	722*	656
12/11/62	900		--	7.4			4.64	8.47	1.43		0.00	9.39	2.02	3.04	0.04				719	186
							32	58	10		0	65	14	21	0					
29S/10E-25C02M		40	5050	66		1157	84	77	55	10	0	497	107	94	13.8	0.4	0.18	--	704*	526
06/16/55	--		--	7.8			4.19	6.33	2.39	0.25	0.00	8.14	2.23	2.65	0.22				686	118
							32	48	18	2	0	61	17	20	2					
		40	5050	--		1180	86	75	45	0	0	438	91	110	13.8	0.6	0.08	--	765*	523
09/01/55	--		--	8.0			4.29	6.17	1.96	0.00	0.00	7.18	1.89	3.10	0.22				637	164
							35	50	16	0	0	58	15	25	2					
		40	5050	58		1048	85	64	50	1	0	497	49	89	12.5	0.2	0.19	--	669	475
08/29/57	--		--	8.1			4.24	5.26	2.17	0.02	0.00	8.14	1.02	2.51	0.20				596	67
							36	45	19	0	0	69	9	21	2					
		40	5787	68		1089	79	74	53	1	0	489	84	85	7.6	0.2	0.30	22	683	502
09/30/58	--		--	7.9			3.94	6.08	2.30	0.02	0.00	8.01	1.75	2.40	0.12				647	101
							32	49	19	0	0	65	14	19	1					
		40	5787	--		1129	--	--	--	--	0	480	--	87	--	--	--	--	--	527
07/28/59	--		--	7.6							0.00	7.87		2.45					--	133
		40	5050	--		1082	74	77	54	1	0	478	79	90	13.0	0.3	0.10	20	610	501
12/03/59	--		--	8.0			3.69	6.33	2.35	0.02	0.00	7.83	1.64	2.54	0.21				644	109
							30	51	19	0	0	64	13	21	2					
		40	5050	--		1075	81	77	49	1	--	418	00	103	16.0	0.4	0.13	27	646	519
01/04/60	--		--	8.3			4.04	6.33	2.13	0.02		6.85	1.66	2.90	0.26				641*	--
							32	50	17	0		59	14	25	2					
		40	5787	--		1133	71	75	54	1	0	476	77	101	6.0	0.0	0.12	22	730	486
03/22/60	--		--	7.5			3.54	6.17	2.35	0.02	0.00	7.80	1.60	2.85	0.10				642	96
							29	51	19	0	0	63	13	23	1					
		40	5788	--		1055	67	70	48	1	0	428	72	93	4.0	0.5	0.18	18	692*	455
08/02/60	1030		--	8.3			3.34	5.76	2.09	0.02	0.00	7.01	1.50	2.62	0.06				585	104
							30	51	19	0	0	63	13	23	1					
		40	5788	--		1780	201	45	115	2	16	355	105	360	1.8	0.0	0.14	27	1174*	687
08/08/60	--		--	8.5			10.03	3.70	5.00	0.05	0.53	5.82	2.19	10.15	0.03				1048	369
							53	20	27	0	3	31	12	54	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLEN	TEMP PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
SAN LUIS OBISPO HYDRO SUBUNIT MORRO HYDRO SUBAREA					T1081														
29S/10E-25C02M		40	5788	--	1030	81	64	53	1	0	454	66	87	8.2	0.1	0.17	18	606*	465
08/16/60	--		--	7.9		4.04	5.26	2.30	0.02	0.00	7.44	1.37	2.45	0.13				602	93
						35	45	20	0	0	65	12	21	1					
		40	5788	--	1045	--	--	--	--	0	455	--	91	--	--	--	--	--	490
08/24/60	--		--	8.0						0.00	7.46		2.57					--	117
		40	5788	64	870	--	--	--	--	--	276	--	93	--	--	--	--	--	357
09/07/60	--		--	8.4							4.52		2.62					--	--
		40	5788	--	900	27	73	55	1	2	283	79	161	11.0	0.1	0.11	19	492*	368
09/20/60	--		--	8.3		1.35	6.00	2.39	0.02	0.07	4.64	1.64	4.54	0.18				568#	133
						14	61	24	0	1	42	15	41	2					
		40	5050	61	1193	89	84	51	1	0	476	85	124	20.0	0.1	0.10	27	712	568
11/01/61	--		--	7.8		4.44	6.91	2.22	0.02	0.00	7.80	1.77	3.50	0.32				716	178
						33	51	16	0	0	58	13	26	2					
		40	5788	61	900	48	78	43	1	12	407	71	73	4.0	0.2	0.12	13	588	441
10/23/62	1300		--	8.4		2.39	6.41	1.87	0.02	0.40	6.67	1.48	2.06	0.06				544	87
						22	60	17	0	4	62	14	19	1					
		40	5788	65	1280	81	102	59	1	0	494	107	164	13.0	0.2	0.16	19	836	622
10/30/62	1200		--	7.8		4.04	8.39	2.57	0.02	0.00	8.10	2.23	4.62	0.21				790	217
						27	56	17	0	0	53	15	30	1					
		40	5856	--	1481	74	116	93	--	0	483	216	172	14.3	--	--	--	927*	662
12/11/62	830		--	7.3		3.69	9.54	4.04		0.00	7.92	4.50	4.85	0.23				923	266
						21	55	23		0	45	26	28	1					
		40	5050	64	1506	104	104	69	1	14	505	120	193	11.0	0.4	0.12	26	930	688
09/19/63	1430		--	8.3		5.19	8.55	3.00	0.02	0.47	8.28	2.50	5.44	0.18				891	250
						31	51	18	0	3	49	15	32	1					
		40	5874	61	1230	46	89	65	2	25	276	106	160	23.0	0.4	0.22	--	808	481
10/04/65	1310		--	8.2		2.29	7.32	2.83	0.05	0.83	4.52	2.21	4.51	0.37				653	213
						18	59	23	0	7	36	18	36	3					
		40	5050	--	1403	101	97	67	0	--	540	103	163	14.0	0.3	0.11	--	917	652
07/21/66	1000		--	7.7		5.04	7.98	2.91	0.00		8.85	2.14	4.60	0.22				811	167
						32	50	18	0		56	14	29	1					
		40	5050	--	1610	--	--	--	--	0	535	--	197	16.0	--	--	--	--	--
09/26/66	1100		--	8.2						0.00	8.77		5.55	0.26				--	--
		40	5050	--	1084	79	79	49	1	--	481	84	91	4.0	0.4	0.09	--	642	522
11/06/67	930		--	7.8		3.94	6.50	2.13	0.02		7.88	1.75	2.57	0.06				624	128
						31	52	17	0		64	14	21	0					
29S/10E-25C03M		40	5788	60	930	72	63	42	1	0	440	67	63	3.0	0.2	0.15	19	548	439
10/30/62	1210		--	8.2		3.59	5.18	1.83	0.02	0.00	7.21	1.39	1.78	0.05				547	78
						34	49	17	0	0	69	13	17	0					
		40	5856	--	976	46	81	13	--	0	405	37	75	4.8	--	--	--	461*	448
12/11/62	800		--	8.0		2.29	6.66	0.56		0.00	6.64	0.77	2.11	0.08				456	116
						24	70	6		0	69	8	22	1					
		40	5050	--	997	81	62	48	0	0	454	81	73	1.0	0.4	0.14	30	550	457
03/07/63	--		--	7.3		4.04	5.10	2.09	0.00	0.00	7.44	1.69	2.06	0.02				600	85
						36	45	19	0	0	66	15	18	0					
29S/10E-25D01M		40	5009	60	1180	68	80	75	2	0	446	96	119	29.0	0.6	0.11	20	--	499
03/05/57	1030		--	7.8		3.39	6.58	3.26	0.05	0.00	7.31	2.00	3.35	0.47				709	133
						25	49	24	0	0	56	15	25	4					
		40	5050	--	1045	77	67	68	1	--	471	83	86	14.0	0.4	0.06	25	625	468
09/30/58	--		--	7.6		3.84	5.51	2.96	0.02		7.72	1.73	2.42	0.22				653	82
						31	45	24	0		64	14	20	2					
		40	5788	--	1200	71	81	58	4	0	452	77	131	1.8	0.1	0.22	19	769*	510
06/27/60	1400		--	7.7		3.54	6.66	2.52	0.10	0.00	7.41	1.60	3.69	0.03				666	139
						28	52	20	1	0	58	13	29	0					
		40	5050	66	1145	84	92	47	1	0	464	88	142	30.0	0.4	0.08	28	799	588
11/03/61	--		--	8.1		4.19	7.57	2.04	0.02	0.00	7.60	1.83	4.00	0.48				741	207
						30	55	15	0	0	55	13	29	3					
		40	5788	--	3150	205	257	111	5	13	491	162	846	6.0	0.1	0.18	22	2436	1570
07/12/62	--		--	8.3		10.23	21.13	4.83	0.13	0.43	8.05	3.37	23.86	0.10				1869	1146
						28	58	13	0	1	22	9	67	0					
		40	5788	61	3400	246	221	175	2	0	509	149	920	6.0	0.2	0.20	20	2772	1524
10/23/62	1400		--	8.0		12.27	18.17	7.61	0.05	0.00	8.34	3.10	25.94	0.10				1990	1106
						32	48	20	0	0	22	8	69	0					
		40	5050	67	1957	111	109	148	2	0	476	119	374	10.0	0.5	0.10	26	1280	726
09/19/63	1530		--	8.1		5.54	8.96	6.44	0.05	0.00	7.83	2.48	10.55	0.16				1135	334
						26	43	31	0	0	37	12	50	1					
		40	5050	--	1857	114	111	124	2	0	467	110	360	12.0	0.3	0.11	--	1070	742
10/06/64	--		--	8.2		5.69	9.13	5.39	0.05	0.00	7.65	2.29	10.15	0.19				1063	359
						28	45	27	0	0	38	11	50	1					
		40	5788	--	1330	77	73	115	2	0	455	97	195	2.0	0.1	0.15	--	852	492
07/14/64	--		--	7.6		3.84	6.00	5.00	0.05	0.00	7.46	2.02	5.50	0.03				785	119
						26	40	34	0	0	50	13	37	0					
29S/10E-25D02M		40	5050	--	1665	110	105	82	0	0	461	102	262	26.0	0.4	0.11	30	969	707
12/22/59	--		--	7.6		5.49	8.63	3.57	0.00	0.00	7.55	2.12	7.39	0.42				945	329
						31	49	20	0	0	43	12	42	2					
		40	5050	--	1665	110	106	80	0	0	455	101	273	27.0	0.5	0.11	28	974	711
01/04/60	--		--	7.8		5.49	8.72	3.48	0.00	0.00	7.46	2.10	7.70	0.43				950	338
						31	49	20	0	0	42	12	43	2					
		40	5787	--	1856	109	114	85	2	0	479	105	277	15.0	0.7	0.05	24	1245	742
03/22/69	--		--	7.0		5.44	9.37	3.70	0.05	0.00	7.85	2.19	7.81	0.24				968	349
						29	50	20	0	0	43	12	43	1					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP / PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																			
MORRO HYDRO SUBAREA					T1061														
29S/10E-25D02M		40	5050	--	1510	84	99	78	1	30	387	105	216	8.7	0.2	0.14	25	690	617
08/02/60	1015		--	8.5		4.19	8.14	3.39	0.02	1.00	6.34	2.19	6.09	0.14				838	250
						27	52	21	0	6	40	14	39	1					
		40	5788	--	1330	52	90	85	2	0	314	114	225	14.0	0.0	0.12	20	746*	500
08/08/60	--		--	7.8		2.59	7.40	3.70	0.05	0.00	5.15	2.37	6.34	0.22				757	242
						19	54	27	0	0	36	17	45	2					
		40	5788	--	1520	89	96	96	2	0	442	110	232	10.0	0.1	0.20	20	852*	617
08/16/60	--		--	8.0		4.44	7.89	4.17	0.05	0.00	7.24	2.29	6.54	0.16				873	254
						27	48	25	0	0	45	14	40	1					
		40	5788	62	1320	32	96	95	2	0	266	110	241	11.0	0.1	0.16	20	736*	475
08/24/60	--		--	8.0		1.60	7.89	4.13	0.05	0.00	4.36	2.29	6.80	0.18				738	257
						12	58	30	0	0	32	17	50	1					
		40	5788	64	1625	--	--	--	--	0	490	--	269	--	--	--	--	--	685
09/07/60	--		--	8.1						0.00	8.03		7.58					--	283
		40	5788	--	1525	62	101	100	2	0	314	114	275	12.0	0.0	0.16	20	692*	570
09/20/60	--		--	7.9		3.09	8.31	4.35	0.05	0.00	5.15	2.37	7.75	0.19				841	312
						20	53	27	0	0	33	15	50	1					
		40	5050	--	2760	158	154	131	2	0	543	225	457	20.0	0.3	0.13	25	1454	1028
09/28/61	--		--	8.2		7.88	12.66	5.70	0.05	0.00	8.90	4.68	12.89	0.32				1440	583
						30	48	22	0	0	33	17	48	1					
		40	5788	64	2500	186	154	138	2	0	540	158	554	10.0	0.2	0.18	15	1834	1098
10/30/62	1130		--	7.6		9.28	12.66	6.00	0.05	0.00	8.85	3.29	15.62	0.16				1483	655
						33	45	21	0	0	32	12	56	1					
		40	5788	--	1875	143	77	140	2	0	377	134	379	7.0	0.1	0.15	--	1262	674
07/14/64	--		--	8.0		7.13	6.33	6.09	0.05	0.00	6.18	2.79	10.69	0.11				1068	365
						36	32	31	0	0	31	14	54	1					
29S/10E-25D03M		40	5050	64	1631	117	91	92	2	0	490	112	243	5.0	0.4	0.12	27	950	667
03/07/63	--		--	7.6		5.84	7.48	4.00	0.05	0.00	8.03	2.33	6.85	0.08				931	265
						34	43	23	0	0	46	13	40	0					
		40	5050	68	1435	79	94	92	2	0	397	104	239	23.0	0.4	0.08	21	869	584
04/30/63	--		--	8.2		3.94	7.73	4.00	0.05	0.00	6.51	2.16	6.74	0.37				850	258
						25	49	25	0	0	41	14	43	2					
		40	5746	63	1600	147	94	103	2	0	509	117	273	17.0	0.2	0.22	23	1090	713
10/15/63	--		--	7.8		7.33	6.91	4.48	0.05	0.00	8.34	2.43	7.70	0.27				1017	295
						39	37	24	0	0	44	13	41	1					
		40	5050	--	1686	107	102	100	2	0	535	112	235	16.0	0.4	0.16	--	1118	687
04/06/65	--		--	7.6		5.34	8.39	4.35	0.05	0.00	8.77	2.33	6.63	0.26				938	248
						29	46	24	0	0	49	13	37	1					
29S/10E-25E01M		40	5786	--	1000	32	74	74	1	5	288	87	136	6.0	0.1	0.18	21	612*	385
08/11/60	--		--	--		1.60	6.08	3.22	0.02	0.17	4.72	1.81	3.83	0.10				578	140
						15	56	29	0	2	44	17	36	1					
		40	5050	--	1288	91	93	43	--	0	458	44	199	7.2	--	--	--	706	610
10/01/60	--		--	7.5		4.54	7.65	1.87		0.00	7.51	0.92	5.61	0.12				703	234
						32	54	13		0	53	6	40	1					
		40	5050	--	1621	97	87	116	1	0	410	100	289	5.0	0.4	0.10	27	920	600
03/07/63	1430		--	8.2		4.84	7.15	5.04	0.02	0.00	6.72	2.08	8.15	0.08				925	264
						28	42	30	0	0	39	12	48	0					
29S/10E-25E02M		40	5050	--	1379	137	95	32	--	0	449	119	219	5.6	--	--	--	832	733
08/01/61	--		--	7.7		6.84	7.81	1.39		0.00	7.36	2.48	6.17	0.09				829	365
						43	49	9		0	46	15	38	1					
		40	5050	62	2320	127	134	81	1	0	464	110	394	7.4	0.3	0.14	23	1233	869
09/28/61	--		--	8.2		6.34	11.02	3.52	0.02	0.00	7.60	2.29	11.11	0.12				1106	488
						30	53	17	0	0	36	11	53	1					
		40	5788	64	920	33	63	80	1	12	314	57	120	8.0	0.2	0.10	14	542	342
10/30/62	--		--	8.5		1.65	5.18	3.48	0.02	0.40	5.15	1.19	3.38	0.13				543	64
						16	50	34	0	4	50	12	33	1					
		40	5050	--	1414	81	82	96	1	0	415	91	217	1.5	0.4	0.12	25	810	539
03/07/63	1400		--	7.3		4.04	6.74	4.17	0.02	0.00	6.80	1.69	6.12	0.02				800	199
						27	45	28	0	0	46	13	41	0					
		40	5050	--	3060	--	--	--	--	0	445	--	653	8.6	--	--	--	--	--
09/26/66	1120		--	7.9						0.00	7.29		18.41	0.14				--	--
		40	5050	--	988	43	63	90	1	--	381	73	111	2.5	0.4	0.08	--	591	367
05/24/67	--		--	8.1		2.14	5.18	3.91	0.02		6.24	1.52	3.13	0.04				572	54
						19	46	35	0		57	14	29	0					
		40	5050	--	1025	62	58	79	1	21	357	67	115	2.0	0.4	0.08	--	581	393
11/06/67	845		--	8.5		3.09	4.77	3.44	0.02	0.70	5.85	1.39	3.24	0.03				581	66
						27	42	30	0	6	52	12	29	0					
29S/10E-25F01M		40	5788	67	1065	66	78	55	1	12	431	99	96	0.0	0.1	0.13	24	704	485
07/12/62	--		--	8.3		3.29	6.41	2.39	0.02	0.40	7.06	2.06	2.71	0.00				644	111
						27	53	20	0	3	58	17	22	0					
		40	5050	--	1040	57	67	53	1	0	409	78	76	2.5	0.3	0.10	21	597	418
07/08/63	--		--	8.1		2.84	5.51	2.30	0.02	0.00	6.70	1.62	2.14	0.04				557	83
						27	52	22	0	0	64	15	20	0					
		40	5788	--	1200	62	98	59	1	6	550	92	97	0.0	0.1	0.20	--	736	558
07/06/64	--		--	8.3		3.09	8.06	2.57	0.02	0.20	9.01	1.91	2.73	0.00				686	97
						22	59	19	0	1	65	14	20	0					
		40	5050	68	1302	74	98	61	1	0	553	106	118	2.0	0.4	0.11	--	735	588
08/03/65	--		--	8.2		3.69	8.06	2.65	0.02	0.00	9.06	2.21	3.33	0.03				733	134
						26	56	18	0	0	62	15	23	0					
29S/10E-25F03M		40	5050	--	1267	86	91	57	1	--	560	68	128	1.4	0.2	0.06	20	762	589
12/03/59	--		--	7.8		4.29	7.48	2.48	0.02		9.18	1.41	3.61	0.02				728	130
						30	52	17	0		64	10	25	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY LAB / SAMPLER	TEMP / PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
					MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																		
MORRO HYDRO SUBAREA				T1081														
29S/10E-25F03M		40 5767	--	1183	81	81	52	2	0	504	94	96	4.0	0.1	0.09	24	870	535
12/03/59	--	--	7.3		4.04	6.66	2.26	0.05	0.00	8.26	1.96	2.71	0.06				682	122
					31	51	17	0	0	64	15	21	0					
		40 5050	--	1075	81	76	50	1	30	406	81	101	19.0	0.4	0.13	23	645	515
01/04/60	--	--	8.5		4.04	6.25	2.17	0.02	1.00	6.65	1.69	2.85	0.31				663	132
					32	50	17	0	8	53	13	23	2					
		40 5787	--	1195	77	86	45	2	0	514	83	91	3.0	0.7	0.12	21	870	546
03/22/60	--	--	7.3		3.84	7.07	1.96	0.05	0.00	8.42	1.73	2.57	0.05				662	124
					30	55	15	0	0	66	13	20	0					
		40 5788	--	1081	79	79	40	1	0	488	88	86	3.5	0.2	0.10	21	626*	522
08/02/60	1040	--	8.1		3.94	6.50	1.74	0.02	0.00	8.00	1.83	2.42	0.06				638	122
					32	53	14	0	0	65	15	20	0					
		40 5788	--	1120	80	80	52	1	0	500	83	106	3.2	0.1	0.15	19	680*	529
08/08/60	--	--	7.6		3.99	6.58	2.26	0.02	0.00	8.19	1.73	2.99	0.05				671	119
					31	51	18	0	0	63	13	23	0					
		40 5788	--	870	30	72	53	1	4	301	85	98	3.1	0.1	0.14	21	538*	371
08/16/60	--	--	8.3		1.50	5.92	2.30	0.02	0.13	4.93	1.77	2.76	0.05				516	117
					15	61	24	0	1	51	18	29	0					
		40 5788	--	865	--	--	--	--	5	268	--	97	--	--	--	--	--	353
08/24/60	--	--	8.3						0.17	4.39		2.73					--	125
		40 5788	--	1140	--	--	--	--	--	506	--	104	--	--	--	--	--	550
09/07/60	--	--	7.7							8.29		2.93					--	127
		40 5788	--	1110	--	--	--	--	--	497	--	95	--	--	--	--	--	532
09/20/60	--	--	7.9							8.14		2.68					--	116
29S/10E-25F04M		40 5788	67	810	69	56	40	1	8	379	78	55	0.0	0.1	0.09	21	506	403
07/12/62	--	--	8.4		3.44	4.60	1.74	0.02	0.27	6.21	1.62	1.55	0.00				515	79
					35	47	18	0	3	64	17	16	0					
		40 5788	65	910	68	68	43	1	0	464	74	69	0.0	0.2	0.11	16	576	449
10/30/62	--	--	8.1		3.39	5.69	1.87	0.02	0.00	7.60	1.54	1.94	0.00				568	68
					31	51	17	0	0	69	14	17	0					
		40 5050	--	1070	81	67	57	1	0	485	83	83	3.1	0.3	0.14	21	649	478
07/08/63	--	--	8.0		4.04	5.51	2.48	0.02	0.00	7.95	1.73	2.34	0.05				635	80
					33	46	21	0	0	66	14	19	0					
		40 5788	--	1000	78	67	50	2	3	476	70	80	0.0	0.1	0.12	--	666	470
07/09/64	--	--	8.3		3.89	5.51	2.17	0.05	0.10	7.80	1.46	2.26	0.00				585	75
					33	47	19	0	1	67	12	19	0					
		40 5050	68	907	57	64	46	1	13	381	67	67	1.0	0.3	0.09	--	508	405
08/03/65	--	--	8.3		2.84	5.26	2	0.02	0.43	6.24	1.39	1.89	0.02				504	71
					26	52	20	0	4	63	14	19	0					
29S/11E-01L51M		40 5874	--	490	42	20	22	1	8	146	71	23	3.0	0.7	0.08	--	288	187
12/09/65	--	--	8.3		2.09	1.64	0.96	0.02	0.27	2.39	1.48	0.65	0.05				263	54
					44	35	20	0	5	49	31	13	1					
29S/11E-09J01M		40 5786	64	1000	66	81	31	1	0	573	39	38	6.2	0.0	0.18	--	566*	498
05/29/54	--	--	7.8		3.29	6.66	1.35	0.02	0.00	9.39	0.81	1.07	0.10				545	28
					29	59	12	0	0	83	7	9	1					
29S/11E-09Q02M		40 5874	--	1610	107	97	50	2	0	640	110	85	34.0	0.4	0.20	--	868	667
12/09/65	--	--	7.2		5.34	7.98	2.17	0.05	0.00	10.49	2.29	2.40	0.55				801	142
					34	51	14	0	0	67	15	15	3					
29S/11E-19B01M		40 5050	--	1757	122	119	92	2	--	634	162	169	61.0	0.1	0.00	20	1131	795
12/23/59	--	--	7.8		6.09	9.79	4.00	0.05		10.39	3.37	4.76	0.98				1059	275
					30	49	20	0		53	17	24	5					
29S/11E-19F01M		40 5786	--	900	47	64	67	1	0	492	54	49	1.0	0.2	0.10	--	536	381
07/14/64	--	--	7.5		2.34	5.26	2.91	0.02	0.00	8.06	1.12	1.38	0.02				526	0
					22	50	28	0	0	76	11	13	0					
29S/11E-19G02M		40 5874	--	1100	68	66	46	1	0	422	59	85	4.0	0.5	0.10	--	636	441
12/09/65	--	--	7.7		3.39	5.43	2	0.02	0.00	6.92	1.23	2.40	0.06				638	95
					31	50		0	0	65	12	23	1					
29S/11E-30D01M		40 5788	--	1170	63	88	62	1	0	476	61	127	17.0	0.1	0.01	--	742	519
07/14/64	--	--	8.0		3.14	7.24	2.70	0.02	0.00	7.80	1.27	3.58	0.27				654	129
					24	55	21	0	0	60	10	28	2					
CHORRO HYDRO SUBAREA				T1082														
29S/11E-31D01M		40 5788	64	1000	32	20	183	1	0	207	68	165	105.0	0.1	0.14	27	706	162
03/25/64	1050	--	8.0		1.60	1.64	7.96	0.02	0.00	3.39	1.41	4.65	1.69				703	0
					14	15	71	0	0	30	13	42	15					
29S/11E-32D05M		40 5788	--	1100	--	--	--	--	0	610	--	87	--	--	--	--	--	558
09/08/60	--	--	7.7						0.00	10.00		2.45					--	58
29S/11E-32E01M		40 5787	--	2650	79	114	315	10	0	550	91	582	0.0	0.6	0.34	16	1800	667
11/24/59	--	--	7.6		3.94	9.37	13.70	0.25	0.00	9.01	1.89	16.41	0.00				1479	216
					14	34	50	1	0	33	7	60	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLE#	TEMP PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT CHORRO HYDRO SUBAREA					T1082														
29S/11E-32F01M		40	5788	60	1620	63	107	148	1	18	451	79	248	28.0	0.2	0.16	6	960	597
10/30/62	1400		--	8.4		3.14	8.80	6.44	0.02	0.60	7.39	1.64	6.99	0.45				921*	197
						17	48	35	0	3	43	10	41	3					
29S/11E-32F02M		40	5787	--	1472	26	151	45	0	0	659	78	87	9.0	0.0	0.34	31	1040	687
11/24/59	--		--	7.5		1.30	12.42	1.87	0.00	0.00	10.80	1.62	2.45	0.14				750	146
						8	80	12	0	0	72	11	16	1					
		40	5788	--	1280	70	117	42	1	0	688	58	86	1.8	0.1	0.10	27	833*	656
08/02/60	1335		--	7.5		3.49	9.62	1.83	0.02	0.00	11.28	1.21	2.42	0.03				742	92
						23	64	12	0	0	75	8	16	0					
		40	5788	--	1260	--	--	--	--	0	693	--	94	--	--	--	--	--	647
08/16/60	--		--	7.7						0.00	11.36		2.65					--	79
		40	5788	62	1290	--	--	--	--	--	682	--	92	--	--	--	--	--	630
08/24/60	--		--	7.6							11.18		2.59					--	71
		40	5788	64	1260	--	--	--	--	--	676	--	99	--	--	--	--	--	145
09/08/60	--		--	7.9							11.08		2.79					--	0
		40	5788	60	1110	59	106	45	1	0	598	59	90	5.0	0.2	0.11	26	752	583
10/30/62	1340		--	8.1		2.94	8.72	1.96	0.02	0.00	9.80	1.23	2.54	0.08				686	92
						22	64	14	0	0	72	9	19	1					
		40	5788	69	1270	114	81	51	1	12	635	18	114	1.0	0.1	0.15	--	950	616
07/14/64	--		--	8.4		5.69	6.66	2.22	0.02	0.40	10.41	0.37	3.21	0.02				705	77
						39	46	15	0	3	72	3	22	0					
		40	5050	60	1200	--	--	--	--	19	542	--	89	8.7	--	--	--	--	--
09/28/66	1200		--	8.5						0.63	8.88		2.51	0.14				--	--
29S/11E-32J01M		40	5786	--	1050	58	95	37	1	0	574	51	63	2.5	0.1	0.40	--	648*	535
03/15/56	--		--	7.5		2.89	7.81	1.61	0.02	0.00	9.41	1.06	1.78	0.04				591	64
						23	63	13	0	0	77	9	14	0					
		40	5050	--	1090	58	104	39	1	6	589	39	75	2.7	0.4	0.08	41	646	572
01/04/60	--		--	8.3		2.89	8.55	1.70	0.02	0.20	9.65	0.81	2.14	0.04				657	79
						22	65	13	0	1	75	6	17	0					
		40	5797	--	1134	52	100	38	0	0	569	41	73	1.0	0.3	0.00	38	835	541
03/22/60	--		--	7.5		2.59	8.22	1.65	0.00	0.00	9.32	0.85	2.06	0.02				624	74
						21	66	13	0	0	76	7	17	0					
		40	5788	--	1172	38	113	47	1	0	561	48	95	6.4	0.2	0.13	28	692*	560
08/02/60	--		--	8.2		1.90	9.29	2.04	0.02	0.00	9.19	1.00	2.68	0.10				653	100
						14	70	15	0	0	71	8	21	1					
		40	5788	--	1270	--	--	--	--	0	666	--	110	--	--	--	--	--	648
08/16/60	--		--	8.0						0.00	10.91		3.10					--	102
		40	5788	64	1080	--	--	--	--	14	455	--	108	--	--	--	--	--	535
08/24/60	--		--	8.4						0.47	7.46		3.04					--	138
		40	5788	64	1290	--	--	--	--	--	674	--	116	--	--	--	--	--	670
09/08/60	--		--	8.2							11.05		3.27					--	94
		40	5050	--	1230	66	104	45	0	0	605	53	98	9.5	0.3	0.10	38	790	597
03/07/63	--		--	7.7		3.39	8.55	1.96	0.00	0.00	9.91	1.10	2.76	0.15				714	101
						24	61	14	0	0	71	8	20	1					
		40	5050	--	1284	69	118	54	1	--	633	53	123	24.0	0.3	0.05	--	797	658
05/24/67	--		--	8.0		3.44	9.70	2.35	0.02		10.37	1.10	3.47	0.39				754	139
						22	62	15	0		68	7	23	2					
29S/11E-32J02M		40	5788	66	1230	94	92	49	1	0	584	45	108	67.0	0.1	0.09	34	734	613
07/11/62	1200		--	8.0		4.69	7.57	2.13	0.02	0.00	9.57	0.94	3.04	1.08				778	134
						32	52	15	0	0	65	6	21	7					
29S/11E-32J04M		40	5787	--	1168	26	110	40	1	0	546	44	72	0.0	0.0	0.12	29	945	518
11/24/59	--		--	7.5		1.30	9.05	1.74	0.02	0.00	8.95	0.92	2.03	0.00				591	70
						11	75	14	0	0	75	8	17	0					
		40	5050	--	1028	61	87	40	1	0	551	46	64	1.0	0.2	0.06	40	645	510
12/02/59	--		--	7.8		3.04	7.15	1.74	0.02	0.00	9.03	0.96	1.80	0.02				612	58
						25	60	14	0	0	76	8	15	0					
		40	5050	--	990	50	9	38	1	0	525	46	66	3.2	0.2	0.05	36	547	162
01/04/60	--		--	8.1		2.49	0.74	1.65	0.02	0.00	8.60	0.96	1.86	0.05				508*	0
						51	15	34	0	0	75	8	16	0					
		40	5787	--	1168	46	91	38	1	0	497	53	62	2.0	0.2	0.00	33	760	489
03/22/60	--		--	7.5		2.29	7.48	1.65	0.02	0.00	8.14	1.10	1.75	0.03				571	81
						20	65	14	0	0	74	10	16	0					
		40	5788	--	1193	26	105	58	1	4	510	47	93	7.2	0.2	0.11	27	757*	497
08/02/60	--		--	8.3		1.30	8.63	2.52	0.02	0.13	8.36	0.98	2.62	0.12				620	72
						10	69	20	0	1	68	8	21	1					
		40	5788	--	1200	--	--	--	--	0	677	--	109	--	--	--	--	--	623
08/16/60	--		--	8.0						0.00	11.10		3.07					--	68
		40	5788	64	1060	--	--	--	--	11	518	--	89	--	--	--	--	--	525
08/24/60	--		--	8.4						0.37	8.49		2.51					--	82
		40	5788	--	1120	58	104	45	1	18	574	56	83	11.0	0.1	0.71	29	664	572
07/11/62	--		--	8.4		2.89	8.55	1.96	0.02	0.60	9.41	1.16	2.34	0.18				688	71
						21	64	15	0	4	69	8	17	1					
		40	5788	65	1100	54	111	50	1	33	546	53	96	6.0	0.2	0.10	21	766	591
10/30/62	1435		--	8.6		2.69	9.13	2.17	0.02	1.10	8.95	1.10	2.71	0.10				694	88
						19	65	15	0	8	64	8	19	1					
		40	5050	--	1104	59	88	56	1	0	515	53	93	4.0	0.3	0.08	35	685	509
03/07/63	--		--	7.9		2.94	7.24	2.17	0.02	0.00	8.44	1.10	2.62	0.06				637	87
						24	58	18	0	0	69	9	21	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																				
CHORRO HYDRO SUBAREA						I1062														
29S/11E-32J04M		40	5050	--		1130	--	--	--	--	0	504	--	93	0.7	--	--	--	--	--
09/26/66	930		--	7.9							0.00	8.26		2.62	0.01				--	--
		40	5050	--		1078	48	88	52	1	--	512	42	89	2.5	0.6	0.07	--	594	482
11/06/67	900		--	8.1			2.39	7.24	2.26	0.02		8.39	0.87	2.51	0.04				575	62
							20	61	19	0		71	7	21	0					
29S/11E-32J05M		40	5788	--		1097	53	109	44	1	0	624	52	68	0.0	0.2	0.04	24	678*	560
08/02/60	--		--	8.2			2.64	8.96	1.91	0.02	0.00	10.23	1.08	1.92	0.00				659	68
							19	66	14	0	0	77	8	14	0					
29S/11E-32J06M		40	5788	--		1240	63	108	50	1	0	642	52	96	13.0	0.1	0.09	34	758	601
07/12/62	--		--	7.9			3.14	8.88	2.17	0.02	0.00	10.52	1.08	2.71	0.21				733	74
							22	62	15	0	0	72	7	19	1					
		40	5050	--		1206	61	104	50	1	0	608	57	86	17.0	0.2	0.08	40	765	580
03/07/63	--		--	7.8			3.04	8.55	2.17	0.02	0.00	9.96	1.19	2.42	0.27				716	81
							22	62	16	0	0	72	9	17	2					
		40	5674	--		1550	70	107	50	1	0	618	53	106	14.0	0.4	0.15	--	780	615
12/09/65	--		--	7.6			3.49	8.80	2.17	0.02	0.00	10.13	1.10	2.99	0.22				706	108
							24	61	15	0	0	70	8	21	2					
29S/11E-32K02M		40	5856	--		1139	41	113	33	--	0	610	14	87	10.0	--	--	--	603	567
10/01/60	--		--	7.5			2.04	9.29	1.43		0.00	10.00	0.29	2.45	0.16				598	67
							16	73	11		0	77	2	19	1					
		40	5788	67		1240	69	112	49	0	0	677	54	89	12.0	0.1	0.07	28	800	633
07/11/62	--		--	8.2			3.44	9.21	2.13	0.00	0.00	11.10	1.12	2.51	0.19				746	78
							23	62	14	0	0	74	7	17	1					
		40	5788	60		1160	50	119	51	1	0	650	55	91	13.0	0.2	0.10	27	762	615
10/30/62	1415		--	8.1			2.49	9.79	2.22	0.02	0.00	10.65	1.14	2.57	0.21				727	82
							17	67	15	0	0	73	8	18	1					
		40	5050	68		1238	58	102	54	1	0	560	48	118	5.0	0.4	0.10	--	680	564
12/09/65	--		--	7.5			2.89	8.39	2.35	0.02	0.00	9.16	1.00	3.33	0.08				662	105
							21	61	17	0	0	68	7	24	1					
29S/11E-32K03M		40	5856	--		110	42	115	31	--	0	612	18	86	12.0	--	--	--	610	578
10/01/60	--		--	7.5			2.09	9.46	1.35		0.00	10.03	0.37	2.42	0.19				605	76
							16	73	10		0	77	3	19	1					
29S/11E-32L01M		40	5788	--		1260	62	117	41	1	0	671	59	85	3.5	0.1	0.24	4	804*	636
08/02/60	--		--	7.8			3.09	9.62	1.78	0.02	0.00	11.00	1.23	2.40	0.06				703	86
							21	66	12	0	0	75	8	16	0					
		40	5788	--		1080	--	--	--	--	14	468	--	84	--	--	--	--	--	505
08/16/60	--		--	8.4							0.47	7.67		2.37					--	98
		40	5788	64		1045	--	--	--	--	10	486	--	84	--	--	--	--	--	510
08/24/60	--		--	8.4							0.33	7.96		2.37					--	95
		40	5788	66		1200	--	--	--	--	0	657	--	88	--	--	--	--	--	614
09/08/60	--		--	8.2							0.00	10.77		2.48					--	75
		40	5050	65		1040	32	116	38	0	21	482	51	96	19.0	0.2	0.17	34	630	557
09/28/61	--		--	8.4			1.60	9.54	1.65	0.00	0.70	7.90	1.06	2.71	0.31				645	127
							12	75	13	0	5	62	8	21	2					
		40	5788	60		1110	47	117	44	1	0	596	84	86	7.0	0.2	0.09	25	636	599
10/30/62	1325		--	8.2			2.34	9.62	1.91	0.02	0.00	9.80	1.75	2.42	0.11				706	108
							17	69	14	0	0	70	12	17	1					
		40	5050	61		1180	--	--	--	--	24	498	--	88	6.4	--	--	--	--	--
09/28/66	1215		--	8.6							0.80	8.16		2.46	0.10				--	--
29S/11E-32M01M		40	5050	65		1530	68	117	99	3	0	674	76	170	5.0	0.4	0.12	--	927*	651
06/16/55	--		--	8.3			3.39	9.62	4.31	0.08	0.00	11.05	1.58	4.79	0.08				870	98
							19	55	25	0	0	63	9	27	0					
		40	5787	67		1487	55	126	77	6	0	665	69	157	5.0	0.3	0.00	34	1108	656
09/30/58	--		--	7.8			2.74	10.36	3.35	0.15	0.00	10.90	1.44	4.43	0.08				857	111
							16	62	20	1	0	65	8	26	0					
		40	5787	62		1393	70	122	53	2	0	653	66	123	6.0	0.2	0.00	40	1035	677
07/28/59	--		--	7.6			3.49	10.03	2.30	0.05	0.00	10.70	1.37	3.47	0.10				804	141
							22	63	14	0	0	68	9	22	1					
		40	5787	--		1472	23	161	54	1	0	580	166	129	4.0	0.0	0.32	32	1075	728
11/24/59	--		--	7.5			1.15	13.24	2.35	0.02	0.00	9.51	3.46	3.64	0.06				856	244
							7	79	14	0	0	57	21	22	0					
		40	5050	--		1455	73	131	56	1	--	688	67	130	5.0	0.0	0.00	40	868	721
12/02/59	--		--	7.5			3.64	10.77	2.43	0.02		11.28	1.39	3.67	0.08				842	157
							22	64	14	0		69	8	22	0					
		40	5788	--		1632	84	137	70	1	0	661	82	213	0.0	0.2	0.17	24	1025*	774
08/02/60	1145		--	7.8			4.19	11.27	3.04	0.02	0.00	10.83	1.71	6.01	0.00				937	232
							23	61	16	0	0	58	9	32	0					
		40	5788	--		1840	--	--	--	--	8	406	--	382	--	--	--	--	--	712
08/16/60	--		--	8.3							0.27	6.65		10.77					--	366
		40	5788	--		1550	--	--	--	--	0	663	--	155	--	--	--	--	--	788
08/24/60	--		--	8.0							0.00	10.87		4.37					--	156
		40	5788	--		2550	--	--	--	--	0	645	--	523	--	--	--	--	--	908
09/08/60	--		--	8.0							0.00	10.57		14.75					--	379
		40	5050	62		7200	172	362	1058	20	0	543	346	2404	14.0	0.5	0.22	32	5257	1919
10/30/61	--		--	7.7			8.58	29.77	46.02	0.51	0.00	8.90	7.20	67.79	0.22				4676	1474
							10	35	54	1	0	11	9	81	0					
		40	5788	62		2030	72	125	208	4	0	628	155	350	3.0	0.2	0.19	29	1328	694
10/23/62	1030		--	8.2			3.59	10.28	9.05	0.10	0.00	10.29	3.23	9.87	0.05				1256	179
							16	45	39	0	0	44	14	42	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY / SAMPLER	LAB	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCM
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
SAN LUIS OBISPO HYDRO SUBUNIT																				
CHORRO HYDRO SUBAREA						T1082														
29S/11E-32M01M		40	5050		62	1680	72	129	154	4	0	683	118	256	8.5	0.3	0.12	39	1090	711
03/07/63	--		--		8.0		3.59	10.61	6.70	0.10	0.00	11.19	2.46	7.22	0.14				1117	151
							17	50	32	0	0	53	12	34	1					
		40	5050		67	1976	68	135	172	5	0	732	122	268	7.5	0.4	0.14	38	1160	725
09/23/63	1300		--		7.4		3.39	11.10	7.48	0.13	0.00	12.00	2.54	7.56	0.12				1176	125
							15	50	34	1	0	54	11	34	0					
		40	5788		69	2050	160	95	182	4	3	732	139	321	4.0	0.1	0.17	--	1352	790
07/14/64	--		--		8.3		7.98	7.81	7.92	0.10	0.10	12.00	2.89	9.05	0.06				1269	185
							33	33	33	0	0	50	12	37	0					
		40	5050		--	2561	82	164	252	6	0	744	149	488	3.0	0.2	0.14	--	1523	880
10/07/64	--		--		8.2		4.09	13.49	10.96	0.15	0.00	12.19	3.10	13.76	0.05				1511	270
							14	47	38	0	0	42	11	47	0					
		40	5050		67	1859	71	142	132	5	20	656	111	255	6.0	0.4	0.08	--	1113	762
08/03/65	--		--		8.4		3.54	11.68	5.74	0.13	0.67	10.75	2.31	7.19	0.10				1065	191
							17	55	27	1	3	51	11	34	0					
		40	5050		60	1546	30	129	138	4	19	515	105	232	8.0	0.4	0.10	--	920	606
10/04/65	1200		--		8.5		1.50	10.61	6.00	0.10	0.63	8.44	2.19	6.54	0.13				919	152
							8	58	33	1	3	47	12	36	1					
		40	5050		61	1910	55	133	150	5	29	570	116	273	7.9	--	0.20	--	1110	685
09/27/66	1530		--		8.5		2.74	10.94	6.52	0.13	0.97	9.34	2.41	7.70	0.13				1050	169
							13	54	32	1	5	45	12	37	1					
		40	5050		60	1508	41	131	108	2	37	503	76	208	17.0	0.3	0.08	--	938	641
05/26/67	1145		--		8.4		2.04	10.77	4.70	0.05	1.23	8.24	1.58	5.86	0.27				868	167
							12	61	27	0	7	48	9	34	2					
		40	5050		60	1694	50	137	130	3	26	536	115	261	7.5	0.2	0.12	--	1082	689
11/02/67	--		--		8.4		2.49	11.27	5.65	0.08	0.87	8.78	2.39	7.36	0.12				994	206
							13	58	29	0	4	45	12	38	1					
29S/11E-32M02M		40	5050		--	1390	70	132	53	0	0	690	69	126	5.8	0.3	0.09	35	791	718
01/04/68	--		--		7.9		3.49	10.85	2.30	0.00	0.00	11.31	1.44	3.55	0.09				831	152
							21	65	14	0	0	69	9	22	1					
		40	5050		64	1451	70	126	74	1	0	673	99	135	3.0	0.2	0.10	39	840	693
03/07/63	--		--		8.1		3.49	10.36	3.22	0.02	0.00	11.03	2.06	3.81	0.05				879	141
							20	61	19	0	0	65	12	22	0					
29S/11E-32M03M		40	5009		--	3300	125	218	250	6	0	638	154	760	2.4	0.0	0.29	32	--	1209
03/12/51	--		--		7.5		6.24	17.93	10.87	0.15	0.00	10.46	3.21	21.43	0.04				1862	686
							18	51	31	0	0	30	9	61	0					
		40	5009		--	4540	149	286	390	7	0	620	198	70	2.2	0.0	0.09	34	--	1549
12/18/51	--		--		8.2		7.43	23.52	16.96	0.18	0.00	10.16	4.12	1.97	0.03				1442#	1040
							15	49	35	0	0	62	25	12	0					
		40	5009		--	3290	117	202	295	6	0	636	151	755	1.4	--	--	--	--	1123
02/01/52	--		--		7.9		5.84	16.61	12.83	0.15	0.00	10.42	3.14	21.29	0.02				1041	601
							16	47	36	0	0	30	9	61	0					
		40	5009		--	2870	--	--	--	--	--	682	--	655	--	--	--	--	--	1135
05/06/52	--		--		7.6							11.18		18.47					--	576
		40	5999		--	3522	--	--	--	--	--	666	--	1110	--	--	--	--	--	1520
06/30/52	--		--		7.8							10.91		31.30					--	974
		40	5009		--	3290	--	--	250	--	0	649	--	628	--	--	0.09	--	--	1140
00/00/52	--		--		8.0				10.87		0.00	10.64		17.71					--	608
		40	5009		--	2790	--	--	--	--	--	646	--	700	--	--	--	--	--	950
10/28/52	--		--		7.6							10.59		19.74					--	420
		40	5009		--	1530	56	56	163	2	0	144	75	358	21.0	0.0	0.07	32	834*	370
02/19/53	940		--		7.0		2.79	4.60	7.09	0.05	0.00	2.36	1.56	10.09	0.34				834	252
							19	32	49	0	0	16	11	70	2					
		40	5009		--	2500	77	151	263	7	8	640	123	490	1.4	0.2	0.13	36	--	814
06/23/53	--		--		8.3		3.84	12.42	11.44	0.18	0.27	10.49	2.56	13.82	0.02				1472	276
							14	44	41	1	1	39	9	51	0					
		40	5786		64	2200	77	131	202	6	0	672	102	372	0.0	--	0.12	--	1410*	731
06/11/54	--		--		7.6		3.84	10.77	8.79	0.15	0.00	11.01	2.12	10.49	0.00				1221	180
							16	46	37	1	0	47	9	44	0					
		40	5787		--	6310	341	267	649	33	0	605	235	1900	0.0	0.2	0.68	31	4210	1951
11/04/59	--		--		7.7		17.01	21.96	28.23	0.84	0.00	9.91	4.89	53.58	0.00				3755	1455
							25	32	41	1	0	14	7	78	0					
		40	5787		--	7645	220	399	796	16	0	592	319	2261	0.0	--	0.44	29	4982	2191
11/23/59	--		--		7.6		10.98	32.81	34.62	0.41	0.00	9.70	6.64	63.76	0.00				4332	1705
							14	42	44	0	0	12	8	80	0					
		40	5050		--	4264	260	436	900	14	0	583	349	2500	2.5	0.4	0.18	40	5370	2443
12/02/59	--		--		8.0		12.97	35.86	39.15	0.36	0.00	9.55	7.27	70.50	0.04				4789	1965
							15	41	44	0	0	11	8	81	0					
		40	5788		--	7850	130	395	850	25	0	433	364	2220	0.0	0.1	0.58	10	5402*	1950
08/02/60	--		--		7.9		6.49	32.48	36.97	0.64	0.00	7.10	7.58	62.60	0.00				4208	1595
							8	42	48	1	0	9	10	81	0					
		40	5788		--	7250	--	--	--	--	0	571	--	2069	--	--	--	--	--	1910
08/08/60	--		--		7.5						0.00	9.36		58.34					--	1442
		40	5788		--	7500	--	--	--	--	0	305	--	2559	--	--	--	--	--	1619
08/16/60	--		--		8.1						0.00	5.00		72.16					--	1569
		40	5788		--	7900	--	--	--	--	0	566	--	2349	--	--	--	--	--	2045
08/24/60	--		--		7.5						0.00	9.28		66.24					--	1581

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																				
CHORRO HYDRO SUBAREA						T1082														
29S/11E-32M03M		40	5786	--		7700	--	--	--	--	0	314	--	2355	--	--	--	--	--	1750
09/08/60	--		--	8.0							0.00	5.15		66.41					--	1492
		40	5788	--		7600	--	--	--	--	--	498	--	2269	--	--	--	--	--	1900
09/20/60	--		--	7.9								8.16		63.96					--	1492
29S/11E-32M04M		40	5788	--		1550	--	--	--	--	0	670	--	184	--	--	--	--	--	740
08/16/60	--		--	8.0							0.00	10.98		5.19					--	190
		40	5788	--		1582	--	--	--	--	0	682	--	190	--	--	--	--	--	770
08/24/60	--		--	7.8							0.00	11.18		5.36					--	211
		40	5788	--		1850	--	--	--	--	0	678	--	272	--	--	--	--	--	886
09/08/60	--		--	7.6							0.00	11.11		7.67					--	330
		40	5788	--		1547	77	145	72	--	55	561	59	236	0.6	--	--	--	899	789
09/11/60	--		--	8.3			3.84	11.92	3.13		1.83	9.19	1.23	6.65	0.01				921	237
							20	63	17		10	49	6	35	0					
		40	5050	61		1621	90	140	75	2	0	737	145	134	22.0	0.4	0.14	34	990	801
03/07/63	--		--	7.6			4.49	11.51	3.26	0.05	0.00	12.08	3.02	3.78	0.35				1005	196
							23	60	17	0	0	63	16	20	2					
29S/11E-33N01M		40	5788	64		1420	67	146	44	0	0	866	17	107	0.0	0.1	0.11	40	828	768
07/12/62	--		--	8.2			3.34	12.01	1.91	0.00	0.00	14.19	0.35	3.02	0.00				847	58
							19	69	11	0	0	81	2	17	0					
		40	5788	64		1420	67	146	44	0	0	866	17	107	0.0	0.1	0.11	40	828	768
07/12/62	--		--	8.2			3.34	12.01	1.91	0.00	0.00	14.19	0.35	3.02	0.00				847	58
							19	69	11	0	0	81	2	17	0					
29S/11E-33P01M		40	5786	--		1330	42	102	57	0	0	613	42	88	27.3	0.0	0.15	--	770*	525
06/11/54	--		--	7.6			2.09	8.39	2.48	0.00	0.00	10.05	0.87	2.48	0.44				660#	22
							16	65	19	0	0	73	6	18	3					
		40	5050	60		1180	41	117	57	0	0	649	41	77	26.0	0.7	0.06	39	--	584
03/05/57	--		--	8.2			2.04	9.62	2.48	0.00	0.00	10.64	0.85	2.17	0.42				718	52
							14	68	17	0	0	75	6	15	3					
		40	5788	--		1310	43	121	61	0	0	644	47	103	35.0	0.1	0.07	41	798	605
07/11/62	--		--	7.9			2.14	9.95	2.65	0.00	0.00	10.55	0.98	2.90	0.56				768	77
							14	67	18	0	0	70	6	19	4					
30S/11E-03Q01M		40	5874	--		1350	61	96	60	1	0	554	46	125	6.0	0.6	0.14	--	796	547
12/09/65	--		--	7.7			3.04	7.89	2.61	0.02	0.00	9.08	0.96	3.52	0.10				669	93
							22	58	19	0	0	66	7	26	1					
		40	5050	--		1240	56	99	57	1	0	540	48	118	4.8	--	0.10	--	657	547
09/26/66	915		--	8.0			2.79	8.14	2.48	0.02	0.00	8.85	1.00	3.33	0.08				650	104
							21	61	18	0	0	67	7	25	1					
		40	5050	--		1136	61	101	52	1	--	553	50	107	11.0	0.4	0.06	--	707	568
05/24/67	--		--	8.1			3.04	8.31	2.26	0.02		9.06	1.04	3.02	0.18				656	114
							22	61	17	0		66	8	23	1					
30S/11E-04A01M		40	5788	--		1140	44	92	71	3	8	74	48	89	3.0	0.1	0.11	38	840	489
07/11/62	--		--	8.3			2.19	7.57	3.09	0.08	0.27	1.21	1.00	2.51	0.05				433#	415
							17	58	24	1	5	24	20	50	1					
30S/11E-06F01M		40	5009	62		1600	58	57	167	2	0	124	72	390	22.0	0.2	0.16	36	--	379
06/23/53	--		--	7.2			2.89	4.69	7.26	0.05	0.00	2.03	1.50	11.00	0.35				866	277
							19	31	49	0	0	14	16	74	2					
		40	5786	60		2342	50	142	198	6	0	667	100	349	0.0	0.0	0.55	--	1460*	710
06/11/54	--		--	7.8			2.49	11.68	8.61	0.15	0.00	10.93	2.08	9.84	0.00				1174	163
							11	51	37	1	0	48	9	43	0					
		40	5050	65		1780	70	68	184	1	0	134	68	466	37.4	0.1	0.05	--	1234*	454
06/16/55	--		--	7.1			3.49	5.59	8.00	0.02	0.00	2.20	1.41	13.14	0.60				961	344
							20	33	47	0	0	13	8	76	3					
		40	5787	--		5380	240	259	446	12	0	116	166	1672	5.0	0.0	0.20	15	3260	1665
11/23/59	--		--	7.0			11.98	21.30	19.40	0.31	0.00	1.90	3.46	47.15	0.08				2873	1570
							23	40	37	1	0	4	7	90	0					
		40	5050	--		5830	265	294	483	7	0	140	186	1865	3.8	0.4	--	--	3606	1871
12/22/59	--		--	7.5			13.22	24.18	21.01	0.18	0.00	2.29	3.87	52.59	0.06				3173	1756
							23	41	36	0	0	4	7	89	0					
LOS OSOS HYDRO SUBAREA						T1083														
30S/10E-13A01M		40	5788	--		265	9	6	32	1	0	33	5	46	27.0	0.1	0.05	21	190	47
08/03/61	--		--	6.6			0.45	0.49	1.39	0.02	0.00	0.54	0.10	1.30	0.43				164	20
							19	21	59	1	0	23	4	55	18					
		40	5788	--		350	11	10	33	3	0	43	11	51	34.0	0.2	0.05	24	202	69
07/12/62	--		--	7.0			0.55	0.82	1.43	0.08	0.00	0.70	0.23	1.44	0.55				199	34
							19	28	50	3	0	24	8	49	19					
		40	5788	--		370	21	11	43	1	0	47	4	79	41.0	0.1	0.02	--	266	98
07/08/64	--		--	7.5			1.05	0.90	1.87	0.02	0.00	0.77	0.08	2.23	0.66				224	59
							27	23	49	1	0	21	2	59	18					
		40	5050	--		369	14	11	36	1	0	44	8	58	45.0	0.1	0.00	--	240	80
08/03/65	--		--	7.8			0.70	0.90	1.56	0.02	0.00	0.72	0.17	1.63	0.72				195	44
							22	28	49	1	0	22	5	50	22					
30S/10E-13A02M		40	5788	--		434	25	8	41	1	0	58	22	75	21.0	0.0	0.06	19	276*	96
08/03/61	--		--	7.3			1.25	0.66	1.78	0.02	0.00	0.95	0.46	2.11	0.34				241	48
							34	18	48	1	0	25	12	55	9					
		40	5788	--		420	23	12	51	1	0	46	19	98	21.0	0.1	0.05	--	272	107
07/08/64	--		--	7.2			1.15	0.99	2.22	0.02	0.00	0.75	0.39	2.76	0.34				248	69
							26	22	51	1	0	18	9	65	8					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY / SAMPLER	LAB TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																			
LOS OSOS HYDRO SUBAREA					T1083														
30S/10E-13A02M		40 5050	--		612	28	16	57	1	0	34	23	140	21.0	0.1	0.02	--	340	136
08/03/65	--	--	7.1			1.40	1.31	2.48	0.02	0.00	0.56	0.48	3.95	0.34				303	108
						27	25	47	0	0	10	9	74	6					
30S/10E-13A03M		40 5788	--		318	--	--	--	--	0	44	--	60	--	--	--	--	--	75
08/03/61	--	--	6.5							0.00	0.72		1.69					--	39
30S/10E-13A04M		40 5788	--		357	--	--	--	--	0	62	--	50	--	--	--	--	--	85
08/03/61	--	--	6.9							0.00	1.02		1.41					--	34
30S/10E-13A05M		40 5788	--		361	--	--	--	--	0	42	--	58	--	--	--	--	--	85
08/03/61	--	--	6.7							0.00	0.69		1.63					--	50
30S/10E-13A06M		40 5788	--		479	13	17	50	1	0	74	9	66	53.0	0.1	0.02	20	310*	103
08/03/61	--	--	6.7			0.65	1.40	2.17	0.02	0.00	1.21	0.19	1.86	0.85				266	42
						15	33	51	1	0	29	4	45	21					
		40 5788	--		300	10	9	41	1	0	50	5	46	42.0	0.1	0.02	--	202	62
07/03/64	--	--	7.8			0.50	0.74	1.78	0.02	0.00	0.82	0.10	1.30	0.68				179#	21
						16	24	58	1	0	28	4	45	23					
		40 5050	--		186	11	4	21	1	0	61	3	27	2.0	0.1	0.02	--	160	44
08/04/65	--	--	7.5			0.55	0.33	0.91	0.02	0.00	1.00	0.06	0.76	0.03				100	0
						30	18	50	1	0	54	3	41	2					
30S/10E-13B01M		40 5788	--		350	10	13	33	1	0	69	1	54	20.0	0.1	0.04	21	236*	79
08/03/61	--	--	7.0			0.50	1.07	1.43	0.02	0.00	1.13	0.02	1.52	0.32				188	22
						16	35	47	1	0	38	1	51	11					
30S/10E-13B02M		40 5788	--		491	36	14	50	2	0	50	8	123	34.0	0.1	0.07	19	298*	148
08/03/61	--	--	6.5			1.80	1.15	2.17	0.05	0.00	0.82	0.17	3.47	0.55				311	107
						35	22	42	1	0	16	3	69	11					
		40 5788	--		515	17	17	51	3	0	43	20	79	70.0	0.1	0.05	22	326	113
07/12/62	--	--	6.9			0.85	1.40	2.22	0.08	0.00	0.70	0.42	2.23	1.13				301	78
						19	31	49	2	0	16	9	50	25					
		40 5050	65		545	16	20	50	2	0	39	20	89	80.0	0.1	0.05	29	300	122
10/30/62	1620	--	7.3			0.80	1.64	2.17	0.05	0.00	0.64	0.42	2.51	1.29				326	90
						17	35	47	1	0	13	9	52	27					
		40 5050	--		715	29	32	55	2	0	61	7	151	62.0	0.1	0.05	20	438	204
07/05/63	850	--	7.2			1.45	2.63	2.39	0.05	0.00	1.00	0.14	4.26	2				389	154
						22	40	37	1	0	16	2	66	16					
		40 5788	--		180	18	1	22	1	0	59	2	27	5.0	0.1	0.02	--	118	49
07/08/64	--	--	7.7			0.90	0.08	0.96	0.02	0.00	0.97	0.04	0.76	0.08				106#	1
						46	4	49	1	0	52	2	41	4					
		40 5050	--		196	12	4	21	1	0	52	6	30	5.0	0.1	0.02	--	92	47
08/02/65	--	--	7.2			0.60	0.33	0.91	0.02	0.00	0.85	0.12	0.85	0.08				105	4
						32	18	49	1	0	45	7	44	4					
		40 5050	61		1405	59	74	75	3	--	23	22	395	23.0	0.1	0.02	--	925	452
07/19/66	1200	--	7.2			2.94	6.08	3.26	0.08		0.38	0.46	11.14	0.37				663	433
						24	49	26	1		3	4	90	3					
		40 5050	65		--	--	--	--	--	0	23	--	437	25.0	--	--	--	--	--
09/28/66	--	--	6.9							0.00	0.38		12.32	0.40				--	--
		40 5050	56		481	18	20	36	1	--	28	16	97	35.0	0.0	0.02	--	307	127
05/26/67	1010	--	7.2			0.90	1.64	1.56	0.02		0.46	0.33	2.73	0.56				237	104
						22	40	36	1		11	8	67	14					
		40 5050	58		187	10	5	23	1	--	41	6	33	2.0	0.0	0.02	--	101	45
11/02/67	1315	--	7.8			0.50	0.41	1	0.02		0.67	0.12	0.93	0.03				101#	12
						26	21	52	1		38	7	53	2					
30S/10E-13G02M		40 5788	--		424	15	11	50	1	0	63	18	84	4.0	0.0	0.06	14	260*	83
08/03/61	--	--	6.8			0.75	0.90	2.17	0.02	0.00	1.03	0.37	2.37	0.06				228	31
						19	23	56	1	0	27	10	62	2					
		40 5788	--		420	12	12	48	1	0	80	6	70	18.0	0.2	0.05	18	266	80
07/12/62	--	--	7.2			0.60	0.99	2.09	0.02	0.00	1.31	0.12	1.97	0.29				225	14
						16	27	56	1	0	35	3	53	8					
		40 5050	--		415	11	13	48	1	0	83	8	72	14.0	0.1	0.16	21	190	81
10/30/62	1600	--	7.1			0.55	1.07	2.09	0.02	0.00	1.36	0.17	2.03	0.22				230	13
						15	29	56	1	0	36	4	54	6					
30S/10E-13L01M		40 5117	--		--	--	--	--	--	--	--	--	36	--	--	--	--	--	--
06/20/60	--	--	--										1.01					--	--
		40 5788	--		200	--	--	--	--	0	37	--	39	--	--	--	--	--	45
08/09/60	--	--	7.3							0.00	0.61		1.10					--	15
		40 5117	--		--	--	--	--	--	--	--	--	36	--	--	--	--	--	--
09/13/60	--	--	--										1.01					--	--
		40 5788	--		278	22	5	24	1	0	86	2	40	0.0	0.1	0.03	23	176*	76
08/03/61	--	--	6.7			1.10	0.41	1.04	0.02	0.00	1.41	0.04	1.13	0.00				160	5
						43	16	40	1	0	55	2	44	0					
		40 5788	--		220	11	5	24	1	0	46	0	38	6.0	0.2	0.03	27	148	48
07/12/62	--	--	7.5			0.55	0.41	1.04	0.02	0.00	0.75	0.00	1.07	0.10				135#	10
						27	20	51	1	0	39	0	56	5					
		40 5789	--		220	16	4	26	1	2	59	0	38	7.0	0.2	0.04	21	136	57
10/30/62	1540	--	8.4			0.80	0.33	1.13	0.02	0.07	0.97	0.00	1.07	0.11				145	5
						35	14	49	1	3	44	0	48	5					
		40 5050	--		204	9	5	21	1	0	40	1	34	7.4	0.1	0.03	32	124	43
07/05/63	731	--	7.9			0.45	0.41	0.91	0.02	0.00	0.65	0.02	0.96	0.12				131	10
						25	23	51	1	0	37	1	55	7					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLEN	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																				
LOS OSOS HYDRO SUBAREA						T1083														
30S/10E-13L01M		40	5050		66	199	4	6	25	1	0	41	3	36	6.0	0.1	0.02	--	160	35
08/04/65	--		--		7.6		0.20	0.49	1.09	0.02	0.00	0.67	0.06	1.01	0.10				102	1
							11	27	60	1	0	36	3	55	5					
		40	5050		62	202	7	6	24	1	--	40	5	37	7.0	0.1	0.02	--	113	42
07/19/66	1100		--		7.6		0.35	0.49	1.04	0.02		0.65	0.10	1.04	0.11				107	9
							18	26	55	1		34	5	54	6					
		40	5050		70	203	--	--	--	--	0	43	--	30	5.4	--	--	--	--	--
09/28/66	1430		--		6.8						0.00	0.70		0.85	0.09				--	--
		40	5050		65	196	9	3	22	1	--	45	4	34	7.0	0.2	0.02	--	169	35
05/26/67	1000		--		8.0		0.45	0.25	0.96	0.02		0.74	0.08	0.96	0.11				103*	0
							27	15	57	1		39	4	51	6					
		40	5050		64	195	6	6	23	1	--	36	20	35	6.0	0.0	0.00	--	141	40
11/02/67	1330		--		7.1		0.30	0.49	1	0.02		0.59	0.42	0.99	0.10				115*	10
							16	27	55	1		28	20	47	5					
30S/10E-13P01M		40	5786		--	244	10	6	27	1	0	44	7	34	21.7	0.1	0.00	--	171*	50
10/02/54	--		--		7.2		0.50	0.49	1.17	0.02	0.00	0.72	0.14	0.96	0.35				129	14
							23	22	54	1	0	33	7	44	16					
		40	5050		--	213	6	6	25	1	0	43	2	35	16.0	0.2	0.04	27	133	40
07/19/61	--		--		7.3		0.30	0.49	1.09	0.02	0.00	0.70	0.04	0.99	0.26				140	5
							16	26	57	1	0	35	2	50	13					
30S/10E-23H01M		40	5788		--	372	12	15	43	1	0	90	19	61	3.6	0.2	0.06	21	260*	92
08/03/61	--		--		7.1		0.60	1.23	1.87	0.02	0.00	1.47	0.39	1.72	0.06				221	18
							16	33	50	1	0	40	11	47	2					
		40	5788		69	180	10	2	22	3	0	33	2	41	7.0	0.1	0.02	--	134	33
07/08/64	--		--		7.0		0.50	0.16	0.96	0.08	0.00	0.54	0.04	1.16	0.11				104*	6
							29	10	56	4	0	29	2	62	6					
		40	5050		--	344	10	11	39	1	0	66	16	56	12.0	0.1	0.02	--	190	70
08/05/65	--		--		7.6		0.50	0.90	1.70	0.02	0.00	1.08	0.33	1.58	0.19				178	16
							16	29	54	1	0	34	10	49	6					
30S/11E-07G01		40	5788		--	212	13	7	18	1	0	52	8	30	14.0	0.1	0.07	24	168*	62
08/03/61	--		--		7.2		0.65	0.57	0.78	0.02	0.00	0.85	0.17	0.85	0.22				141	19
							32	28	38	1	0	41	8	40	11					
		40	5788		--	190	11	7	20	1	0	37	5	34	17.0	0.1	0.02	--	144	57
07/08/64	--		--		7.3		0.55	0.57	0.87	0.02	0.00	0.61	0.10	0.96	0.27				114	27
							27	28	43	1	0	31	5	49	14					
		40	5050		--	212	9	7	19	1	0	47	6	27	17.0	0.1	0.00	--	130	52
08/03/65	--		--		7.7		0.45	0.57	0.83	0.02	0.00	0.77	0.12	0.76	0.27				110	13
							24	31	44	1	0	40	6	39	14					
30S/11E-07G02M		40	5786		--	270	16	9	23	1	0	44	10	39	33.0	0.2	0.05	24	192*	77
08/03/61	--		--		6.5		0.80	0.74	1	0.02	0.00	0.72	0.21	1.10	0.53				177	41
							31	29	39	1	0	28	8	43	21					
30S/11E-07G03M		40	5788		--	195	9	7	19	1	0	47	1	31	13.0	0.2	0.05	24	148*	52
08/03/61	--		--		7.2		0.45	0.57	0.83	0.02	0.00	0.77	0.02	0.87	0.21				129	13
							24	31	44	1	0	41	1	47	11					
		40	5788		--	200	8	6	20	1	0	43	4	30	8.0	0.1	0.00	18	112	45
07/12/62	--		--		7.4		0.40	0.49	0.87	0.02	0.00	0.70	0.08	0.85	0.13				117	10
							22	28	49	1	0	40	5	48	7					
		40	5788		--	180	12	5	20	1	0	43	4	28	13.0	0.1	0.02	--	132	51
07/08/64	--		--		7.9		0.60	0.41	0.87	0.02	0.00	0.70	0.08	0.79	0.21				105*	16
							31	22	46	1	0	39	5	44	12					
		40	5050		--	187	8	6	18	1	0	41	5	26	13.0	0.1	0.00	--	120	45
08/03/65	--		--		7.9		0.40	0.49	0.78	0.02	0.00	0.67	0.10	0.73	0.21				98	11
							23	29	46	1	0	39	6	43	12					
		40	5050		67	194	8	7	19	1	--	45	3	31	12.0	0.1	0.00	--	118	49
07/19/66	1230		--		6.9		0.40	0.57	0.83	0.02		0.74	0.06	0.87	0.19				104	12
							22	31	45	1		39	3	47	10					
		40	5050		72	198	--	--	--	--	0	40	--	25	14.0	--	--	--	--	--
09/28/66	1400		--		7.7						0.00	0.65		0.70	0.22				--	--
		40	5050		72	196	--	--	--	--	0	40	--	25	14.0	--	--	--	--	--
01/03/67	--		--		7.7						0.00	0.65		0.70	0.22				--	--
		40	5050		62	190	7	6	17	1	--	40	4	27	11.0	0.1	0.00	--	78	44
05/26/67	1030		--		7.7		0.35	0.49	0.74	0.02		0.65	0.08	0.76	0.18				93	11
							22	31	46	2		39	5	45	11					
		40	5050		65	171	8	4	17	1	--	21	4	34	8.0	0.0	0.00	--	111	36
11/02/67	1500		--		7.5		0.40	0.33	0.74	0.02		0.34	0.08	0.96	0.13				87	19
							27	22	49	2		23	5	63	8					
30S/11E-07J01M		40	5009		60	200	8	6	19	1	0	38	5	30	13.0	0.4	0.00	20	122	45
03/05/57	1245		--		7.1		0.40	0.49	0.83	0.02	0.00	0.62	0.10	0.85	0.21				122	14
							23	28	47	1	0	35	6	47	12					
30S/11E-07N01M		40	5786		--	298	17	11	24	1	0	96	4	41	4.3	0.0	0.00	--	201*	88
10/02/54	--		--		7.4		0.85	0.90	1.04	0.02	0.00	1.57	0.08	1.16	0.07				150	9
							30	32	37	1	0	55	3	40	2					
		40	5050		--	195	9	7	18	0	0	43	6	26	13.0	0.2	0.04	--	130	52
08/30/57	--		--		7.1		0.45	0.57	0.78	0.00	0.00	0.70	0.12	0.79	0.21				103	17
							25	32	43	0	0	38	7	43	11					
		40	5767		--	290	23	8	24	2	0	111	2	36	0.0	0.2	0.00	25	204	91
09/30/58	--		--		8.2		1.15	0.66	1.04	0.05	0.00	1.82	0.04	1.01	0.00				175	0
							40	23	36	2	0	63	1	35	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP / PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																			
LOS OSOS HYDRO SUBAREA						T1G03													
30S/11E-07N01M		40	5787	--	316	24	7	16	1	4	81	1	35	2.0	0.1	0.00	25	197	89
07/28/59	--		--	8.6		1.20	0.57	0.78	0.02	0.13	1.33	0.02	0.99	0.03				157	16
						46	22	30	1	5	53	1	39	1					
		40	5788	67	282	14	10	23	1	0	86	5	36	2.3	0.1	0.05	24	178*	76
08/03/61	--		--	7.0		0.70	0.82	1	0.02	0.00	1.41	0.10	1.07	0.04				160	5
						27	32	39	1	0	54	4	41	1					
		40	5050	--	267	12	9	23	1	0	81	3	32	3.9	0.1	0.00	32	147	67
12/10/61	--		--	7.6		0.60	0.74	1	0.02	0.00	1.33	0.06	0.90	0.06				156	1
						25	31	42	1	0	56	3	38	3					
		40	5788	--	290	19	8	22	1	0	92	3	32	2.0	0.2	0.06	21	198	81
10/31/62	--		--	7.9		0.95	0.66	0.96	0.02	0.00	1.51	0.06	0.90	0.03				154	5
						37	25	37	1	0	60	2	36	1					
		40	5050	--	276	12	10	22	1	0	83	0	35	3.0	0.2	0.02	34	150	71
10/07/63	1300		--	7.4		0.60	0.82	0.96	0.02	0.00	1.36	0.00	0.99	0.05				158	3
						25	34	40	1	0	57	0	41	2					
		40	5050	64	251	12	11	20	1	0	83	4	33	3.0	0.0	0.00	--	138	75
10/07/64	--		--	7.8		0.60	0.90	0.87	0.02	0.00	1.36	0.08	0.93	0.05				125	7
						25	38	36	1	0	56	3	38	2					
		40	5050	--	242	21	3	21	1	0	74	7	32	2.8	--	0.00	--	128	65
10/02/66	--		--	7.6		1.05	0.25	0.91	0.02	0.00	1.21	0.14	0.90	0.04				125	4
						47	11	41	1	0	53	6	39	2					
		40	5050	62	242	12	9	22	1	--	74	5	35	3.0	0.0	0.00	--	151	67
11/02/67	--		--	7.5		0.60	0.74	0.96	0.02		1.21	0.10	0.99	0.05				124	6
						26	32	41	1		52	4	42	2					
30S/11E-07Q01M		40	5050	--	189	8	7	19	1	0	37	4	30	1.3	0.0	0.02	26	109	49
12/30/59	--		--	7.4		0.40	0.57	0.83	0.02	0.00	0.61	0.08	0.85	0.02				115*	19
						22	31	45	1	0	39	5	54	1					
		4	5117	--	--	--	--	--	--	--	--	--	27	--	--	--	--	--	--
02/03/60	--		--	--									0.76					--	--
		4	5788	--	260	9	8	43	1	0	34	74	31	5.3	0.0	0.04	21	154*	56
08/02/60	--		--	7.7		0.45	0.66	1.87	0.02	0.00	0.56	1.54	0.87	0.08				210	28
						15	22	62	1	0	16	50	29	3					
		40	5788	--	200	--	--	--	--	0	37	--	35	--	--	--	--	--	45
08/09/60	--		--	7.7						0.00	0.61		0.99					--	15
		40	5788	--	205	--	--	--	--	0	38	--	31	--	--	--	--	--	42
08/18/60	--		--	7.5						0.00	0.62		0.87					--	11
		40	5788	--	205	--	--	--	--	0	34	--	31	--	--	--	--	--	60
08/24/60	--		--	7.3						0.00	0.56		0.87					--	32
		40	5788	--	215	--	--	--	--	--	37	--	31	--	--	--	--	--	47
09/20/60	--		--	7.2							0.61		0.87					--	17
		4	5788	--	220	8	10	21	1	0	43	9	35	15.0	0.1	0.04	19	176*	61
08/03/61	--		--	6.6		0.40	0.82	0.91	0.02	0.00	0.70	0.19	0.99	0.24				140	26
						18	38	42	1	0	33	9	46	11					
		40	5050	62	211	8	7	20	1	0	37	5	29	17.0	0.1	0.00	31	108	49
10/30/62	1640		--	7.6		0.40	0.57	0.87	0.02	0.00	0.61	0.10	0.82	0.27				137	19
						21	31	46	1	0	34	6	45	15					
		40	5050	64	213	9	6	20	1	0	31	5	30	18.0	--	0.00	--	148	47
09/28/66	1100		--	7.3		0.45	0.49	0.87	0.02	0.00	0.51	0.10	0.85	0.29				105	22
						24	27	47	1	0	29	6	48	17					
		40	5050	60	214	9	7	21	1	--	34	8	34	21.0	0.0	0.00	--	166	51
11/02/67	--		--	7.3		0.45	0.57	0.91	0.02		0.56	0.17	0.96	0.34				118	23
						23	29	46	1		28	8	47	17					
30S/11E-08J01M		40	5117	62	3860	173	211	367	2	0	416	109	1090	148.0	1.0	0.35	9	--	1300
03/06/57	--		--	8.0		8.63	17.35	15.96	0.05	0.00	6.82	2.27	30.74	2.39				2315	959
						20	41	38	0	0	16	5	73	6					
		40	5788	62	3690	160	185	355	1	0	450	103	945	136.0	1.5	0.55	11	2444*	1160
09/16/60	--		--	7.4		7.96	15.21	15.44	0.02	0.00	7.37	2.14	26.65	2.19				2120	791
						21	39	40	0	0	19	6	69	6					
		40	5050	--	3570	148	187	345	2	0	427	99	929	167.0	0.6	0.33	25	2342	1139
10/30/61	--		--	7.2		7.38	15.38	15.01	0.05	0.00	7.00	2.06	26.20	2.69				2113	789
						19	41	40	0	0	18	5	69	7					
		4	5788	62	2900	112	140	335	1	0	305	79	833	65.0	0.8	0.44	7	1938	856
10/22/62	--		--	8.1		5.59	11.51	14.57	0.02	0.00	5.00	1.64	23.49	1.05				1724	606
						18	36	46	0	0	16	5	75	3					
		40	5050	65	3196	80	150	335	1	19	227	88	815	104.0	1.1	0.42	18	1885	817
09/23/63	1330		--	8.2		3.99	12.33	14.57	0.02	0.63	3.72	1.83	22.98	1.68				1724	599
						13	40	47	0	2	12	6	74	5					
		40	5050	65	3172	112	158	318	1	0	362	94	820	113.0	1.1	0.40	--	1849	930
10/07/64	--		--	8.1		5.59	12.99	13.83	0.02	0.00	5.93	1.96	23.12	1.82				1796	633
						17	40	43	0	0	18	6	70	5					
		40	5050	63	3311	131	149	330	2	0	411	97	818	86.0	0.7	0.36	--	2020	940
10/04/65	--		--	7.9		6.54	12.25	14.35	0.05	0.00	6.74	2.02	23.07	1.39				1817	603
						20	37	43	0	0	20	6	69	4					
		40	5050	75	3240	--	--	--	--	0	366	--	730	60.0	--	--	--	--	--
09/28/66	1330		--	8.3						0.00	6.00		20.59	0.97				--	--
		40	5050	63	3030	120	140	317	2	--	391	95	790	73.0	1.2	0.44	--	2126	876
11/02/67	--		--	7.8		5.99	11.51	13.79	0.05		6.41	1.96	22.28	1.18				1731	555
						19	37	44	0		20	6	70	4					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLER	TEMP PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																			
LOS OSOS HYDRO SUBAREA					T1083														
30S/11E-06R01M		40	5788	--	1270	97	83	69	3	0	736	2	100	2.7	0.1	0.15	35	824*	584
08/03/61	--		--	7.6		4.84	6.82	3.00	0.08	0.00	12.06	0.04	2.82	0.04				754	0
						33	46	20	0	0	61	0	19	0					
		40	5788	--	1380	80	111	74	5	0	793	18	117	0.0	0.1	0.16	18	1070	657
07/12/62	--		--	8.0		3.99	9.13	3.22	0.13	0.00	13.00	0.37	3.30	0.00				814	7
						24	55	19	1	0	78	2	20	0					
		40	5788	68	1260	71	105	74	3	0	793	4	92	3.0	0.2	0.12	19	810	609
10/30/62	1520		--	7.7		3.54	8.63	3.22	0.08	0.00	13.00	0.08	2.59	0.05				762	0
						23	56	21	0	0	63	0	16	0					
		40	5050	--	1160	79	99	75	3	12	677	2	92	4.3	0.1	0.13	28	698	604
07/05/63	950		--	8.4		3.94	8.14	3.26	0.08	0.40	11.10	0.04	2.59	0.07				728#	29
						26	53	21	0	3	78	0	18	0					
		40	5050	69	1263	92	89	68	3	23	690	4	98	4.0	0.2	0.10	--	694	596
07/19/66	1300		--	8.4		4.59	7.32	2.96	0.08	0.77	11.31	0.08	2.76	0.06				721	0
						31	49	20	0	5	75	0	18	0					
		40	5050	72	1330	--	--	--	--	0	721	--	88	3.9	--	--	--	--	--
09/28/66	1330		--	8.1						0.00	11.82		2.48	0.06				--	--
		40	5050	74	1138	63	85	81	6	--	639	15	98	3.5	0.2	0.12	--	647	507
05/26/67	1100		--	8.1		3.14	6.99	3.52	0.15		10.47	0.31	2.76	0.06				666	0
						23	51	25	1		77	2	20	0					
		40	5050	68	1051	44	79	72	3	--	531	4	101	3.0	0.2	0.11	--	586	435
11/02/67	--		--	8.2		2.19	6.50	3.13	0.08		8.70	0.08	2.85	0.05				568	0
						18	55	26	1		74	1	24	0					
30S/11E-13D01M		40	5874	58	300	15	7	35	2	0	56	13	50	24.0	0.2	0.25	--	180	67
10/04/65	1000		--	7.6		0.75	0.57	1.52	0.05	0.00	0.92	0.27	1.41	0.39				174	21
						26	20	52	2	0	31	9	47	13					
30S/11E-17H01M		40	5788	67	416	23	19	28	1	0	138	13	43	6.6	0.1	0.05	26	290*	136
08/03/61	--		--	7.5		1.15	1.56	1.22	0.02	0.00	2.26	0.27	1.21	0.11				228	23
						29	39	31	1	0	59	7	31	3					
30S/11E-17H01M		40	5050	63	563	38	33	34	3	0	265	20	51	3.3	0.0	0.05	--	332*	231
06/16/55	--		--	7.5		1.90	2.71	1.48	0.08	0.00	4.34	0.42	1.44	0.05				313	14
						31	44	24	1	0	69	7	23	1					
		40	5050	65	575	--	--	--	--	11	210	--	40	13.0	--	--	--	--	--
09/28/66	1500		--	8.6						0.37	3.44		1.13	0.21				--	--
30S/11E-18A01M		40	5788	--	225	--	--	--	--	0	41	--	34	--	--	--	--	--	53
08/09/60	--		--	7.6						0.00	0.67		0.96					--	19
30S/11E-18H01M		40	5050	--	207	8	6	22	1	0	34	3	32	2.0	0.0	0.02	28	125	45
12/30/59	--		--	7.3		0.40	0.49	0.96	0.02	0.00	0.56	0.06	0.90	0.03				119#	17
						21	26	51	1	0	36	4	58	2					
		40	5050	--	225	8	8	23	1	0	40	7	33	18.0	0.0	0.00	31	170	53
08/02/60	1455		--	7.8		0.40	0.66	1	0.02	0.00	0.65	0.14	0.93	0.29				149	28
						19	32	48	1	0	32	7	46	14					
		40	5788	--	230	--	--	--	--	0	42	--	32	--	--	--	--	--	61
08/18/60	--		--	7.0						0.00	0.69		0.90					--	26
		40	5788	--	240	--	--	--	--	0	44	--	33	--	--	--	--	--	75
08/24/60	--		--	7.6						0.00	0.72		0.93					--	39
		40	5788	--	240	--	--	--	--	--	40	--	33	--	--	--	--	--	69
09/20/60	--		--	7.0							0.65		0.93					--	36
		40	5050	--	210	10	6	19	1	0	37	5	34	20.0	0.0	0.06	27	129	50
07/19/61	--		--	7.0		0.50	0.49	0.83	0.02	0.00	0.61	0.10	0.96	0.32				141#	20
						27	27	45	1	0	30	5	48	16					
		40	5050	--	253	9	9	25	1	0	37	9	33	30.0	0.1	0.02	28	150	60
10/30/62	1655		--	7.4		0.45	0.74	1.09	0.02	0.00	0.61	0.19	0.93	0.48				163	30
						19	32	47	1	0	27	8	42	22					
		40	5050	--	211	9	6	21	1	0	40	3	29	13.0	--	0.00	--	153	47
09/28/66	1100		--	7.6		0.45	0.49	0.91	0.02	0.00	0.65	0.06	0.82	0.21				102#	14
						24	26	46	1	0	38	4	47	12					
		40	5050	62	220	9	7	17	1	--	45	5	33	8.0	0.0	0.00	--	176	51
11/02/67	--		--	7.8		0.45	0.57	0.74	0.02		0.74	0.10	0.93	0.13				103#	14
						25	32	41	1		39	5	49	7					
30S/11E-18J01M		40	5050	67	303	15	15	21	1	0	92	12	35	17.0	0.1	0.04	28	177	99
07/19/61	--		--	7.4		0.75	1.23	0.91	0.02	0.00	1.51	0.25	0.99	0.27				190	23
						26	42	31	1	0	50	8	33	9					
30S/11E-18J02M		40	5050	--	384	23	21	28	1	0	183	1	35	4.3	0.0	0.07	29	205	144
07/19/61	--		--	7.7		1.15	1.73	1.22	0.02	0.00	3.00	0.02	0.99	0.07				233	0
						28	42	30	1	0	74	0	24	2					
30S/11E-18J03M		40	5050	66	200	9	7	17	1	0	52	2	28	9.9	0.1	0.03	28	125	52
07/19/61	--		--	7.2		0.45	0.57	0.74	0.02	0.00	0.85	0.04	0.79	0.16				128	9
						25	32	41	1	0	46	2	43	9					
30S/11E-18K01M		40	5874	--	220	17	5	21	1	0	37	17	35	10.0	0.3	0.03	--	156	63
12/09/65	1000		--	7.5		0.85	0.41	0.91	0.02	0.00	0.61	0.35	0.99	0.16				125	33
						39	19	41	1	0	29	17	47	8					
		40	5050	63	175	7	5	17	1	0	42	1	24	6.6	--	0.00	--	129	38
09/28/66	1045		--	7.7		0.35	0.41	0.74	0.02	0.00	0.69	0.02	0.68	0.11				83	3
						23	27	46	2	0	46	1	45	7					
		40	5050	62	170	8	4	18	1	--	41	3	26	7.0	0.2	0.00	--	113	36
11/02/67	--		--	7.4		0.40	0.33	0.78	0.02		0.67	0.06	0.73	0.11				88	3
						26	21	51	2		42	4	46	7					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																			
LOS OSOS HYDRO SUBAREA						T1083													
30S/11E-18D01M		40 5746	63		210	6	8	23	1	0	45	0	39	8.7	0.0	0.10	--	125*	48
06/11/54	--	--	7.1			0.30	0.66	1	0.02	0.00	0.74	0.00	1.10	0.14				108	11
						15	33	50	1	0	37	0	56	7					
		40 5050	--		213	7	7	23	0	0	40	5	37	11.0	0.0	0.04	--	141	47
08/30/57	--	--	7.2			0.35	0.57	1	0.00	0.00	0.65	0.10	1.04	0.18				110	14
						18	30	52	0	0	33	5	53	9					
		40 5787	--		290	4	14	30	1	0	49	5	47	26.0	0.0	0.00	26	189	68
09/30/58	--	--	6.7			0.20	1.15	1.30	0.02	0.00	0.80	0.10	1.32	0.42				178	28
						7	43	49	1	0	30	4	50	16					
		40 5787	--		274	9	7	25	1	0	43	3	46	4.0	0.1	0.00	29	165	52
07/28/59	--	--	7.0			0.45	0.57	1.09	0.02	0.00	0.70	0.06	1.30	0.06				146	17
						21	27	51	1	0	33	3	61	3					
		40 5050	64		292	11	9	29	1	0	37	3	50	27.0	0.1	0.03	23	159	65
09/29/60	--	--	6.8			0.55	0.74	1.28	0.02	0.00	0.61	0.06	1.41	0.43				172	35
						21	29	49	1	0	24	2	56	17					
		40 5050	58		231	12	12	23	1	0	49	2	46	27.0	0.1	0.04	22	180	80
10/31/61	--	--	7.3			0.60	0.99	1	0.02	0.00	0.80	0.04	1.30	0.43				170	40
						23	38	38	1	0	31	2	50	17					
		40 5050	63		290	7	9	31	1	0	39	7	42	30.0	0.1	0.04	26	131	55
10/22/62	--	--	7.3			0.35	0.74	1.35	0.02	0.00	0.64	0.14	1.18	0.48				173	23
						14	30	55	1	0	26	6	48	20					
		40 5050	73		300	9	9	35	1	0	41	5	43	35.0	0.1	0.02	26	154	60
09/23/63	1430	--	7.0			0.45	0.74	1.52	0.02	0.00	0.67	0.10	1.21	0.56				184#	26
						16	27	56	1	0	26	4	47	22					
		40 5050	68		280	10	8	29	1	0	35	12	44	26.0	0.0	0.00	--	158	58
10/07/64	--	--	7.5			0.50	0.66	1.26	0.02	0.00	0.57	0.25	1.24	0.42				148	29
						20	27	52	1	0	23	10	50	17					
		40 5050	64		257	--	--	--	--	0	34	--	34	26.0	--	--	--	--	--
09/28/66	--	--	7.7							0.00	0.56		0.96	0.42				--	--
		40 5050	64		277	10	9	31	0	--	36	10	48	0.0	0.0	0.04	--	185	62
11/02/67	1245	--	7.9			0.50	0.74	1.35	0.00		0.59	0.21	1.35	0.00				126#	32
						19	29	52	0		27	10	63	0					
30S/11E-18R01M		40 5050	--		198	7	6	21	0	0	31	5	39	3.0	0.1	0.00	--	131	42
08/05/65	--	--	7.0			0.35	0.49	0.91	0.00	0.00	0.51	0.10	1.10	0.05				97	17
						20	28	52	0	0	29	6	62	3					
30S/11E-21E01M		40 5874	--		1550	76	87	100	1	49	207	32	340	0.0	0.1	0.08	--	1020	547
12/06/65	--	--	8.3			3.79	7.15	4.35	0.02	1.63	3.39	0.67	9.59	0.00				787	295
						25	47	28	0	11	22	4	63	0					
30S/11E-22L01M		40 5786	64		1380	38	83	94	5	0	380	32	211	5.0	0.3	0.25	--	684*	432
06/11/54	--	--	8.2			1.80	6.82	4.09	0.13	0.00	6.23	0.67	5.95	0.08				654	120
						14	53	32	1	0	48	5	46	1					
30S/11E-23E01M		40 5009	63		1360	42	77	114	1	0	363	27	244	16.0	0.8	0.00	22	721	422
03/05/57	1400	--	8.0			2.09	6.33	4.96	0.02	0.00	5.95	0.56	6.88	0.26				723	124
						16	47	37	0	0	44	4	50	2					
30S/11E-23FS1M		40 5874	--		530	11	49	15	1	0	246	7	34	3.0	0.2	0.01	--	312	229
12/09/65	--	--	7.8			0.55	4.03	0.65	0.02	0.00	4.03	0.14	0.96	0.05				242	27
						10	77	12	0	0	78	3	18	1					
30S/12E-30FS1M		40 5874	--		470	45	13	22	1	0	179	11	39	18.0	0.3	0.00	--	300	166
12/06/65	--	--	7.7			2.24	1.07	0.96	0.02	0.00	2.93	0.23	1.10	0.29				238#	19
						52	25	22	1	0	64	5	24	6					
SAN LUIS OBISPO CK HYDRO SUBAREA T1084																			
30S/12E-29M01M		40 5009	64		866	57	71	25	1	0	438	53	36	21.0	0.4	0.15	38	519	434
03/07/57	1130	--	7.5			2.84	5.84	1.09	0.02	0.00	7.18	1.10	1.07	0.34				520	75
						29	60	11	0	0	74	11	11	3					
30S/12E-29Q01M		40 5009	60		1680	48	79	195	1	0	448	40	293	40.0	0.5	0.10	--	--	445
03/06/57	--	--	8.0			2.39	6.50	8.48	0.02	0.00	7.34	0.83	8.26	0.64				917	78
						14	37	49	0	0	43	5	48	4					
		40 5050	--		2045	68	117	236	1	8	577	46	440	59.0	0.6	0.06	--	1346	651
08/30/57	--	--	8.4			3.39	9.62	10.26	0.02	0.27	9.46	0.96	12.41	0.95				1260	164
						15	41	44	0	1	39	4	52	4					
		40 5787	--		2364	59	119	244	1	0	615	31	429	29.0	0.5	0.10	26	1594	637
09/30/58	--	--	7.7			2.94	9.79	10.61	0.02	0.00	10.08	0.64	12.10	0.47				1241	133
						13	42	45	0	0	43	3	52	2					
		40 5787	--		2279	73	115	230	1	0	548	34	452	23.0	0.7	0.16	26	1536	656
07/28/59	--	--	8.0			3.64	9.46	10.00	0.02	0.00	8.98	0.71	12.75	0.37				1225	206
						16	41	43	0	0	39	3	56	2					
		40 5050	65		2330	--	--	--	--	0	476	--	495	--	--	--	--	--	673
09/29/60	--	--	7.4							0.00	7.80		13.96					--	283
		40 5050	60		2170	82	112	195	1	0	400	30	489	41.0	0.4	0.07	24	1276	666
11/03/61	--	--	7.8			4.09	9.21	8.48	0.02	0.00	6.55	0.62	13.79	0.66				1172	338
						19	42	39	0	0	30	3	64	3					
		40 5050	62		2335	77	113	218	1	0	472	31	490	41.0	0.5	0.04	28	1215	657
10/22/62	830	--	7.4			3.84	9.29	9.48	0.02	0.00	7.74	0.64	13.82	0.66				1232	270
						17	41	42	0	0	34	3	60	3					
		40 5050	66		2387	85	113	255	0	0	566	38	485	55.0	0.7	0.08	27	1445	677
09/23/63	1510	--	7.5			4.24	9.29	11.09	0.00	0.00	9.28	0.79	13.68	0.89				1338	213
						17	38	45	0	0	38	3	55	4					
		40 5050	64		2330	136	88	230	1	13	478	39	490	38.0	0.5	0.04	--	1339	702
10/07/64	--	--	8.4			6.79	7.24	10.00	0.02	0.43	7.83	0.81	13.82	0.61				1271	288
						28	30	42	0	2	33	3	59	3					

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLE	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																				
SAN LUIS OBISPO CR HYDRO SUBAREA T1084																				
30S/12E-29Q01M		40	5874	62		2500	52	127	260	1	43	343	94	498	76.0	0.7	0.19	--	1588	652
10/04/65	900		--	8.3			2.59	10.44	11.31	0.02	1.43	5.62	1.96	14.04	1.22				1321	299
							11	43	46	0	6	23	8	58	5					
		40	5050	65		2550	--	--	--	--	7	425	--	477	166.0	--	--	--	--	--
09/28/66	1330		--	8.4							0.23	6.96		13.45	2.68				--	--
		40	5050	62		2450	81	135	260	1	30	434	57	468	207.0	0.5	0.09	--	1592	758
11/02/67	1230		--	8.3			4.04	11.10	11.31	0.02	1.00	7.11	1.19	13.20	3.34				1453	352
							15	42	43	0	4	27	5	51	13					
31S/12E-01H01M		40	5050	--		1233	50	107	46	2	0	459	51	158	18.0	0.3	0.06	--	715	545
12/14/65	--		--	7.4			2.49	8.80	3	0.05	0.00	7.52	1.06	4.45	0.29				658	188
							19	66	15	0	0	56	8	33	2					
31S/12E-01N03M		40	5786	74		1270	44	122	48	0	0	546	65	106	66.9	0.1	0.10	--	821*	612
06/11/54	--		--	7.6			2.19	10.03	2.09	0.00	0.00	8.95	1.35	2.99	1.08				721	164
							15	70	15	0	0	62	9	21	7					
31S/12E-01N06M		40	5874	--		2000	71	108	157	0	43	382	81	335	32.0	0.6	0.14	--	1192	621
12/14/65	--		--	8.4			3.54	8.88	6.83	0.00	1.43	6.26	1.69	9.45	0.52				1014	236
							18	46	35	0	7	32	9	49	3					
31S/12E-02P01M		40	5009	68		2590	78	164	179	1	0	233	27	720	20.0	0.0	0.15	28	1330	870
03/07/57	850		--	7.8			3.89	13.49	7.79	0.02	0.00	3.82	0.56	20.30	0.32				1332	679
							15	53	31	0	0	15	2	81	1					
31S/12E-04K01M		40	5009	60		588	32	56	17	0	0	346	21	28	3.7	0.2	0.02	24	352	311
03/07/57	1000		--	8.2			1.60	4.60	0.74	0.00	0.00	5.67	0.44	0.79	0.06				352	27
							23	66	11	0	0	81	6	11	1					
		40	5874	--		660	35	50	18	1	0	325	20	31	7.0	0.2	0.00	--	352	293
12/09/65	--		--	7.2			1.75	4.11	0.78	0.02	0.00	5.33	0.42	0.87	0.11				322	26
							26	62	12	0	0	79	6	13	2					
31S/12E-10G02M		40	5786	65		1305	51	102	38	1	0	475	29	133	34.8	0.0	0.15	--	836*	547
06/11/54	--		--	7.6			2.54	8.39	1.65	0.02	0.00	7.78	0.60	3.75	0.56				623	157
							20	66	13	0	0	61	5	29	4					
		40	5787	65		1853	87	142	90	1	0	771	56	210	43.0	0.3	0.00	27	1349	802
09/30/58	--		--	7.6			4.34	11.68	3.91	0.02	0.00	12.64	1.16	5.92	0.69				1036	170
							22	58	20	0	0	62	6	29	3					
		40	5787	65		1661	96	130	72	1	0	671	80	193	41.0	0.4	0.12	29	1130	775
07/27/59	--		--	7.4			4.79	10.69	3.13	0.02	0.00	11.00	1.66	5.44	0.66				973	225
							26	57	17	0	0	59	9	29	3					
		40	5050	--		1190	60	105	41	1	0	509	33	139	24.0	0.3	0.00	25	744	582
09/29/60	--		--	7.6			2.99	8.63	1.78	0.02	0.00	8.34	0.69	3.92	0.39				679	164
							22	64	13	0	0	62	5	29	3					
		40	5050	65		985	46	85	25	1	0	345	21	135	19.0	0.2	0.09	41	550	465
11/06/61	--		--	7.7			2.29	6.99	1.09	0.02	0.00	5.65	0.44	3.81	0.31				543	182
							22	67	10	0	0	55	4	37	3					
		40	5788	66		980	40	89	37	1	0	395	12	138	8.0	0.2	0.10	27	636	466
10/11/62	--		--	7.6			1.99	7.32	1.61	0.02	0.00	6.47	0.25	3.89	0.13				547	142
							18	67	15	0	0	60	2	36	1					
		40	5050	67		1085	36	100	40	1	26	366	28	133	32.0	0.3	0.06	47	715	501
09/26/63	900		--	8.4			1.80	8.22	1.74	0.02	0.87	6.03	0.58	3.75	0.52				625	156
							15	70	15	0	7	51	5	32	4					
31S/12E-10L01M		40	5009	58		893	54	75	30	1	0	421	35	81	11.0	0.2	0.05	39	--	443
03/06/57	1645		--	7.9			2.69	6.17	1.30	0.02	0.00	6.90	0.73	2.28	0.18				534	98
							26	60	13	0	0	68	7	23	2					
31S/12E-10M01M		40	5874	--		1080	55	75	35	1	0	458	49	62	10.0	0.2	0.06	--	600	446
12/09/65	--		--	7.6			2.74	6.17	1.52	0.02	0.00	7.51	1.02	1.75	0.16				513	70
							26	59	14	0	0	72	10	17	1					
31S/12E-12E03M		40	5050	--		2045	78	173	105	1	0	710	69	205	110.0	0.3	0.04	--	1210	907
12/14/65	--		--	7.6			3.89	14.23	4.57	0.02	0.00	11.64	1.44	7.47	1.77				1151	325
							17	63	20	0	0	52	6	33	8					
31S/12E-12L01M		40	5786	--		1522	76	97	63	1	0	259	15	341	25.0	0.1	0.15	--	1354*	589
06/11/54	--		--	7.8			3.79	7.98	2.74	0.02	0.00	4.24	0.31	9.62	0.40				746	377
							26	55	19	0	0	29	2	66	3					
		40	5787	--		2281	106	132	110	2	0	267	8	589	4.5	0.1	0.70	26	1221	808
08/30/57	--		--	8.0			5.29	10.85	4.78	0.05	0.00	4.38	0.17	16.61	0.07				1110	589
							25	52	23	0	0	21	1	78	0					
		40	5787	--		2173	104	130	98	2	0	262	5	552	8.0	0.1	0.44	43	1316	795
09/30/58	--		--	8.0			5.19	10.69	4.26	0.05	0.00	4.29	0.10	15.57	0.13				1072	580
							26	53	21	0	0	21	0	77	1					
		40	5787	--		2318	--	--	--	--	0	260	--	605	--	--	--	--	--	871
07/28/59	--		--	7.8							0.00	4.26		17.06					--	658
		40	5050	70		2290	--	--	--	--	0	247	--	606	--	--	--	--	--	870
09/29/60	--		--	7.9							0.00	4.05		17.09					--	667
31S/12E-12N01M		40	5050	--		2024	102	109	105	2	0	163	22	530	17.9	0.6	0.08	--	1770*	703
06/21/53	--		--	7.5			5.09	8.96	4.57	0.05	0.00	2.67	0.46	14.95	0.29				969	569
							27	48	24	0	0	14	2	81	2					
		40	5050	65		2514	126	156	114	2	0	249	10	680	16.0	0.4	0.12	58	1510	957
10/22/62	1010		--	7.5			6.29	12.83	4.96	0.05	0.00	4.08	0.21	19.18	0.26				1285	753
							26	53	20	0	0	17	1	61	1					
		40	5050	65		2427	116	156	110	2	0	256	4	653	15.0	0.4	0.12	55	1825	932
09/25/63	900		--	7.4			5.79	12.83	4.78	0.05	0.00	4.19	0.08	18.41	0.24				1238	722
							25	55	20	0	0	18	0	80	1					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																				
SAN LUIS OBISPO CR HYDRO SUBAREA T1084																				
31S/12E-12N01M		40	5050	--		2378	--	--	--	--	0	252	--	658	--	--	--	--	--	957
10/13/64	--		--	7.5							0.00	4.13		18.55					--	750
		40	5050	60		2490	121	150	111	1	0	240	12	677	12.0	0.4	0.11	--	1760	920
10/07/65	830		--	8.1			6.04	12.33	4.83	0.02	0.00	3.93	0.25	19.09	0.19				1203	723
							26	53	21	0	0	17	1	81	1					
31S/12E-12Q02M		40	5788	--		1522	76	97	63	1	0	259	15	341	25.4	0.1	0.15	--	1354*	589
06/11/54	--		--	7.8			3.79	7.98	2.74	0.02	0.00	4.24	0.31	9.62	0.41				746	377
							26	55	19	0	0	29	2	66	3					
31S/12E-14B01M		40	5009	62		980	61	49	73	3	0	316	71	127	0.0	0.2	0.15	21	--	354
03/06/57	1500		--	7.7			3.04	4.03	3.17	0.08	0.00	5.18	1.48	3.58	0.00				561	95
							29	39	31	1	0	51	14	35	0					
31S/12E-15H01M		40	5050	--		1447	17	20	330	15	0	545	165	172	5.0	1.2	0.42	--	970	125
12/13/65	--		--	7.8			0.85	1.64	14.35	0.38	0.00	8.93	3.43	4.85	0.08				994	0
							5	9	83	2	0	52	20	28	0					
31S/12E-16Q01M		40	5788	--		635	31	67	17	1	28	346	9	36	2.1	0.1	0.05	37	462	353
10/22/62	--		--	8.7			1.55	5.51	0.74	0.02	0.93	5.67	0.19	1.01	0.03				399	22
							20	70	9	0	12	72	2	13	0					
		40	5874	66		850	33	75	9	1	0	441	13	30	5.0	0.4	0.08	--	464	391
12/09/65	--		--	7.8			1.65	6.17	0.39	0.02	0.00	7.23	0.27	0.85	0.08				384	29
							20	75	5	0	0	86	3	10	1					
31S/12E-16R01M		40	5050	--		1250	90	67	122	12	9	561	75	133	1.2	0.3	0.25	--	844*	500
10/12/53	--		--	8.8			4.49	5.51	5.31	0.31	0.30	9.19	1.56	3.75	0.02				786*	25
							29	35	34	2	2	62	10	25	0					
31S/12E-28N01M		40	5050	72		2940	294	140	216	4	0	156	1119	245	186.0	0.5	0.20	--	2565*	1310
06/16/55	--		--	7.3			14.67	11.51	9.39	0.10	0.00	2.56	23.30	6.91	4				2282	1182
							41	32	26	0	0	7	65	19	8					
		40	5788	--		745	30	6	156	4	0	303	102	56	4.0	0.2	0.41	--	498	100
08/11/64	--		--	7.7			1.50	0.49	6.78	0.10	0.00	4.97	2.12	1.58	0.06				508	0
							17	6	76	1	0	57	24	18	1					
31S/12E-28Q01M		40	5874	--		1050	72	44	70	5	0	285	139	85	17.0	0.5	0.00	--	620	361
12/13/65	--		--	7.8			3.59	3.62	3.04	0.13	0.00	4.67	2.89	2.40	0.27				573	127
							35	35	29	1	0	46	28	23	3					
31S/12E-29F01M		40	5788	--		780	79	51	30	3	0	434	86	28	0.0	0.4	0.08	22	541	407
01/22/64	930		--	8.2			3.94	4.19	1.30	0.08	0.00	7.11	1.79	0.79	0.00				513	51
							41	44	14	1	0	73	18	8	0					
31S/12E-29L01M		40	5788	--		775	68	52	41	3	0	448	68	35	0.5	0.6	0.12	30	536	384
01/22/64	1000		--	7.5			3.39	4.28	1.78	0.08	0.00	7.34	1.41	0.99	0.01				519	17
							36	45	19	1	0	75	14	10	0					
31S/12E-29P01M		40	5788	--		910	86	54	59	2	0	495	106	30	0.9	0.2	0.20	25	600	437
01/22/64	1120		--	7.5			4.29	4.44	2.57	0.05	0.00	8.11	2.21	1.10	0.01				616	31
							38	39	23	0	0	71	19	10	0					
		40	5050	--		985	82	58	55	2	0	512	85	37	3.0	0.6	0.16	--	575	443
12/13/65	--		--	7.1			4.09	4.77	2.39	0.05	0.00	8.39	1.77	1.04	0.05				575	23
							36	42	21	0	0	75	16	9	0					
31S/12E-29P02M		40	5788	--		1200	92	63	95	5	0	309	296	110	0.9	0.1	0.17	35	904	489
01/22/64	1050		--	7.3			4.59	5.18	4.13	0.13	0.00	5.06	6.16	3.10	0.01				850	236
							33	37	29	1	0	35	43	22	0					
31S/12E-32D02M		40	5050	64		1140	64	37	116	3	0	604	38	64	1.4	0.2	0.39	--	678*	312
09/21/55	--		--	7.9			3.19	3.04	5.04	0.08	0.00	9.90	0.79	1.80	0.02				621*	0
							28	27	44	1	0	79	6	14	0					
		40	5787	64		1097	58	44	122	4	0	592	31	58	0.0	0.3	0.65	25	757	326
08/30/57	--		--	8.1			2.89	3.62	5.31	0.10	0.00	9.70	0.64	1.63	0.00				634	0
							24	30	44	1	0	81	5	14	0					
		40	5868	--		--	75	35	112	1	0	470	40	54	0.0	1.6	--	--	890	331
12/02/57	--		--	7.7			3.74	2.88	4.87	0.02	0.00	7.70	0.83	1.52	0.00				550*	0
							32	25	42	0	0	77	8	15	0					
		40	5787	67		1058	50	47	120	4	0	559	38	53	0.0	0.8	0.60	37	808	319
09/30/58	--		--	7.6			2.49	3.86	5.22	0.10	0.00	9.16	0.79	1.49	0.00				626	0
							21	33	45	1	0	80	7	13	0					
		40	5787	68		1103	61	48	113	4	0	558	35	73	0.0	0.7	0.08	38	738	350
07/27/59	--		--	7.7			3.04	3.95	4.91	0.10	0.00	9.14	0.73	2.06	0.00				648	0
							25	33	41	1	0	77	6	17	0					
		40	5788	66		1655	85	83	138	7	0	578	37	253	5.3	0.2	0.65	36	1090*	554
09/24/60	--		--	8.1			4.24	6.82	6.00	0.18	0.00	9.47	0.77	7.13	0.08				930	80
							25	40	35	1	0	54	4	41	0					
		40	5868	--		1773	116	86	157	7	0	602	47	326	2.0	0.4	0.39	41	--	644
11/10/60	--		--	7.6			5.79	7.07	6.83	0.18	0.00	9.87	0.98	9.19	0.03				1079	150
							29	36	34	1	0	49	5	46	0					
		40	5050	65		2340	161	123	235	9	0	543	82	617	6.8	0.6	0.25	35	1606	908
11/06/61	--		--	7.9			8.03	10.11	10.22	0.23	0.00	8.90	1.71	17.40	0.11				1537	463
							28	35	36	1	0	32	6	62	0					
		40	5868	--		2216	115	95	182	8	0	597	61	375	0.0	0.5	0.56	35	--	678
03/23/62	--		--	7.7			5.74	7.81	7.92	0.20	0.00	9.78	1.27	10.57	0.00				1166	188
							26	36	36	1	0	45	6	49	0					
		40	5788	69		2600	--	--	220	--	0	569	--	597	--	--	--	--	--	850
07/12/62	--		--	8.1					9.57		0.00	9.32		16.83					--	383
		40	5868	--		2985	158	132	240	9	0	597	90	638	0.0	0.3	0.40	39	--	938
08/15/62	--		--	7.7			7.88	10.85	10.44	0.23	0.00	9.78	1.87	17.99	0.00				1601	448
							27	37	35	1	0	34	6	61	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY / SAMPLER	LAB	TEMP / PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCM
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																			
SAN LUIS OBISPO CR HYDRO SUBAREA T1084																			
31S/12E-32D02M		40	5788	65	2600	157	128	230	7	0	558	77	615	0.0	2.0	0.38	30	1744	919
10/16/62	--		--	7.5		7.83	10.53	10.00	0.18	0.00	9.14	1.60	17.34	0.00				1521	461
						27	37	35	1	0	33	6	62	0					
		40	5091	--	--	159	122	264	8	0	443	92	667	0.1	0.4	--	--	1685	899
11/20/62	--		--	7.6		7.93	10.03	11.48	0.20	0.00	7.26	1.91	18.81	0.00				1531#	536
						27	34	39	1	0	26	7	67	0					
		40	5788	66	2700	178	119	270	8	0	675	70	621	0.0	0.6	0.43	35	1582	934
02/20/63	--		--	7.6		8.88	9.79	11.74	0.20	0.00	11.06	1.46	17.51	0.00				1634	380
						29	32	38	1	0	37	5	58	0					
		40	5050	--	2881	119	100	400	8	0	522	103	616	8.5	0.3	0.32	48	1970	709
03/06/63	--		--	7.0		5.94	8.22	17.40	0.20	0.00	8.55	2.14	17.37	0.14				1660#	281
						19	26	55	1	0	30	8	62	0					
		40	5788	66	3000	196	117	355	10	0	523	110	637	0.0	0.8	0.55	37	2284	971
09/27/63	800		--	7.2		9.78	9.62	15.44	0.25	0.00	8.57	2.29	23.60	0.00				1921	542
						28	27	44	1	0	25	7	68	0					
		40	5788	--	2900	190	97	370	10	0	565	94	777	0.0	1.2	0.39	--	1838	874
08/11/64	--		--	7.4		9.48	7.98	16.09	0.25	0.00	9.26	1.96	21.91	0.00				1818	411
						28	24	48	1	0	28	6	66	0					
		40	5050	--	2755	132	111	296	8	0	556	85	625	1.0	0.0	0.34	--	1695	787
10/14/64	--		--	8.0		6.59	9.13	12.87	0.20	0.00	9.14	1.77	17.62	0.02				1533	329
						23	32	45	1	0	32	6	62	0					
		40	5868	--	2380	114	86	252	8	0	592	67	454	0.0	0.5	0.52	39	--	639
03/15/65	--		--	7.6		5.69	7.07	10.96	0.20	0.00	9.70	1.39	12.80	0.00				1313	153
						24	30	46	1	0	41	6	54	0					
		40	5050	--	1230	59	46	153	5	--	564	66	96	3.5	1.8	0.39	--	712	336
08/01/66	--		--	7.9		2.94	3.78	6.65	0.13		9.24	1.37	2.71	0.06				708	0
						22	28	49	1		69	10	20	0					
31S/12E-32D03M		40	5050	--	1167	45	44	160	10	0	664	8	73	0.5	0.4	0.55	47	680	294
03/06/63	--		--	7.8		2.24	3.62	6.96	0.25	0.00	10.88	0.17	2.06	0.01				715	0
						17	28	53	2	0	83	1	16	0					
31S/12E-32D04M		40	5050	--	1182	41	45	170	13	0	671	0	76	0.5	0.2	0.64	45	710	288
03/06/63	--		--	7.6		2.04	3.70	7.39	0.33	0.00	11.00	0.00	2.14	0.01				722	0
						15	27	55	2	0	84	0	16	0					
		40	5788	--	790	42	33	99	16	8	438	36	41	0.0	0.6	0.26	--	502	241
08/13/64	--		--	8.5		2.09	2.71	4.31	0.41	0.27	7.18	0.75	1.16	0.00				492	0
						22	28	45	4	3	77	8	12	0					
31S/12E-32F01M		40	5050	82	864	44	31	98	16	0	464	45	35	0.5	0.6	0.22	62	580	238
03/06/63	--		--	7.1		2.19	2.55	4.26	0.41	0.00	7.60	0.94	0.99	0.01				561	0
						23	27	45	4	0	80	10	10	0					
31S/12E-32F02M		40	5009	100	657	42	30	96	15	0	502	25	30	0.7	0.6	0.10	64	--	229
01/17/63	--		--	7.5		2.09	2.47	4.17	0.38	0.00	8.23	0.52	0.85	0.01				551#	0
						23	27	46	4	0	86	5	9	0					
31S/12E-32F51M		40	5009	99	817	46	29	84	15	0	444	35	38	0.7	0.7	0.10	61	--	234
01/17/63	--		--	7.6		2.29	2.38	3.65	0.38	0.00	7.28	0.73	1.07	0.01				528	0
						26	27	42	4	0	80	8	12	0					
31S/12E-32H01M		40	5050	--	783	21	13	133	3	0	272	90	55	16.0	0.3	0.26	30	483	106
07/19/61	--		--	7.9		1.05	1.07	5.78	0.08	0.00	4.46	1.87	1.55	0.26				496	0
						13	13	72	1	0	55	23	19	3					
		40	5050	--	840	10	4	177	4	0	336	73	60	1.9	0.1	0.40	27	500	42
07/08/63	--		--	7.4		0.50	0.33	7.70	0.10	0.00	5.51	1.52	1.69	0.03				523	0
						6	4	89	1	0	63	17	19	0					
31S/12E-32J52N		40	5009	133	1200	24	32	212	25	0	618	36	69	31.0	0.9	1.20	77	--	192
09/18/62	--		--	8.1		1.20	2.63	9.22	0.64	0.00	10.13	0.79	1.94	0.50				814	0
						9	19	67	5	0	76	6	15	4					
31S/12E-32K01M		40	5050	--	1250	78	57	107	2	0	452	104	137	8.7	0.6	0.26	48	763	429
07/19/61	--		--	7.7		3.89	4.69	4.65	0.05	0.00	7.41	2.16	3.86	0.14				765	58
						29	35	35	0	0	55	16	28	1					
		40	5788	--	1420	89	63	125	4	0	505	101	175	3.0	0.2	0.40	48	906	481
07/13/62	--		--	8.0		4.44	5.16	5.44	0.10	0.00	8.29	2.10	4.93	0.05				858	66
						29	34	36	1	0	54	14	32	0					
		40	5050	--	1350	86	60	138	4	0	470	127	165	1.9	0.5	0.32	47	873	461
07/08/63	--		--	7.9		4.29	4.93	6.00	0.10	0.00	7.70	2.64	4.65	0.03				861	75
						28	32	39	1	0	51	18	31	0					
		40	5788	--	1310	66	66	145	3	12	500	104	141	5.0	0.2	0.41	--	826	436
07/08/64	--		--	8.4		3.29	5.43	6.31	0.08	0.40	8.19	2.16	3.98	0.08				789	6
						22	36	42	0	3	55	15	27	0					
31S/12E-33C01M		40	5788	65	920	62	24	84	3	0	124	137	127	31.0	0.8	0.14	34	614	253
02/20/63	--		--	6.8		3.09	1.97	3.65	0.08	0.00	2.03	2.85	3.58	0.50				564	151
						35	22	41	1	0	23	32	40	6					
31S/12E-33E02M		40	5050	--	1305	76	74	90	4	0	522	117	96	10.5	0.3	0.12	40	762	494
07/19/61	--		--	7.3		3.79	6.08	3.91	0.10	0.00	8.55	2.43	2.71	0.17				765	66
						27	44	28	1	0	62	18	19	1					
		40	5788	--	1300	81	77	110	5	0	684	61	99	0.0	0.1	0.24	38	764	519
02/20/63	--		--	7.6		4.04	6.33	4.78	0.13	0.00	11.21	1.27	2.79	0.00				808	0
						26	41	31	1	0	73	8	18	0					
31S/12E-33F01M		40	5050	--	455	16	11	54	3	0	54	58	67	9.0	0.5	0.06	--	290	85
12/13/65	--		--	6.3		0.60	0.90	2.35	0.08	0.00	0.88	1.21	1.89	0.14				246	41
						19	22	57	2	0	21	29	46	3					
31S/13E-07M01M		40	5874	--	620	35	41	25	1	0	230	25	59	7.0	0.1	0.12	--	324	256
12/14/65	--		--	8.1		1.75	3.37	1.09	0.02	0.00	3.77	0.52	1.66	0.11				307	67
						28	54	17	0	0	62	9	27	2					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
SAN LUIS OBISPO HYDRO SUBUNIT																				
SAN LUIS OBISPO CR HYDRO SUBAREA T1064																				
31S/13E-18D01M		40	5874	64		990	54	33	67	6	0	124	21	239	12.0	0.3	0.28	--	792	270
12/14/65	--		--	7.2			2.69	2.71	3.78	0.15	0.00	2.03	0.44	6.74	0.19				514	168
							29	29	40	2	0	22	5	72	2					
32S/12E-04K02M		40	5050	--		2010	122	137	162	19	0	705	326	227	27.0	0.7	0.76	45	1448	869
09/28/61	--		--	7.4			6.09	11.27	7.05	0.49	0.00	11.55	6.79	6.40	0.43				1414	291
							24	45	28	2	0	46	27	25	2					
		40	5788	--		2220	109	136	160	17	0	796	294	218	0.0	0.4	0.53	39	1438	832
07/13/62	--		--	7.7			5.44	11.18	7.83	0.43	0.00	13.05	6.12	6.15	0.00				1386	179
							22	45	31	2	0	51	24	24	0					
		40	5874	--		2250	127	128	167	24	0	813	208	232	31.0	0.6	0.57	--	1368	844
12/15/65	--		--	7.6			6.34	10.53	7.26	0.61	0.00	13.32	4.33	6.54	0.50				1318	177
							26	42	29	2	0	54	17	26	2					
32S/12E-04L01M		40	5050	71		2335	152	155	191	17	39	488	310	468	19.0	0.3	0.46	42	1766	1017
09/28/61	--		--	8.5			7.58	12.75	8.31	0.43	1.30	8.00	6.45	13.20	0.31				1634	552
							26	44	29	1	4	27	22	45	1					
POINT SAN LUIS HYDRO SUBAREA T1065																				
30S/10E-27R01M		40	5788	--		1550	92	65	138	3	0	375	59	313	6.3	0.1	0.17	24	918	497
01/29/64	1000		--	7.2			4.59	5.34	6.00	0.08	0.00	6.15	1.23	8.83	0.10				885	189
							29	33	37	0	0	38	7	54	1					
		40	5874	--		1560	96	56	130	3	0	384	30	297	10.0	0.3	0.20	--	1040	470
12/09/65	--		--	7.5			4.79	4.60	5.65	0.08	0.00	6.29	0.62	8.37	0.16				812	155
							32	30	37	0	0	41	4	54	1					
PISMO HYDRO SUBAREA T1066																				
31S/12E-34P01M		40	5868	--		571	39	19	46	2	0	128	65	75	0.0	0.4	0.11	27	353	176
11/04/63	--		--	7.9			1.95	1.56	2	0.05	0.00	2.10	1.35	2.11	0.00				337	71
							35	28	36	1	0	38	24	38	0					
31S/13E-16D02M		40	5050	--		800	64	60	24	1	0	423	64	25	8.0	0.5	0.12	--	460	406
12/14/65	--		--	7.6			3.19	4.93	1.04	0.02	0.00	6.93	1.33	0.70	0.13				455	59
							35	54	11	0	0	76	15	8	1					
31S/13E-19H02M		40	5786	75		1135	102	74	36	0	0	523	74	57	61.4	0.2	0.20	--	766*	559
09/30/54	--		--	7.9			5.09	6.08	1.56	0.00	0.00	8.57	1.54	1.61	0.99				662	130
							40	48	12	0	0	67	12	13	8					
31S/13E-19L01M		40	5874	--		1100	83	51	78	4	0	450	115	56	8.0	0.7	0.20	--	652	417
12/14/65	--		--	7.7			4.14	4.19	3.39	0.10	0.00	7.37	2.39	1.58	0.13				618	48
							35	35	29	1	0	64	21	14	1					
31S/13E-20D01M		40	5874	--		880	49	49	43	3	20	296	73	51	1.5	0.5	0.00	--	584	324
12/15/65	--		--	8.2			2.44	4.03	1.87	0.08	0.67	4.86	1.52	1.44	0.02				437	46
							29	48	22	1	8	57	18	17	0					
31S/13E-27D03M		40	5874	--		980	46	66	39	1	59	300	21	67	22.0	0.2	0.11	--	504	387
12/15/65	--		--	8.4			2.29	5.43	1.70	0.02	1.97	4.92	0.44	1.89	0.35				469	42
							24	57	18	0	21	51	5	20	4					
31S/13E-27R01M		40	5874	--		830	62	46	27	3	0	291	40	70	46.0	0.3	0.14	--	552	344
12/15/65	--		--	8.1			3.09	3.78	1.17	0.08	0.00	4.77	0.83	1.97	0.74				438	105
							38	46	14	1	0	57	10	24	9					
31S/13E-29D01M		40	5009	60		797	87	46	28	1	0	411	74	27	11.0	0.0	0.20	31	--	406
03/06/57	1345		--	7.9			4.34	3.78	1.22	0.02	0.00	6.74	1.54	0.76	0.18				508	69
							46	40	13	0	0	73	17	8	2					
31S/13E-29E01M		40	5786	61		1570	118	124	63	0	0	697	264	67	2.5	0.4	0.38	--	977*	805
09/29/54	--		--	7.9			5.89	10.20	2.74	0.00	0.00	11.42	5.50	1.89	0.04				982	233
							31	54	15	0	0	61	29	10	0					
		40	5786	60		1493	125	121	65	1	0	691	271	63	0.0	0.5	0.30	--	985*	810
10/29/54	--		--	7.9			6.24	9.95	2.83	0.02	0.00	11.32	5.64	1.78	0.00				987	243
							33	52	15	0	0	60	30	9	0					
31S/13E-29E02M		40	5009	58		1080	72	91	42	0	0	578	112	35	1.3	0.3	0.18	33	--	554
05/18/55	905		--	8.1			3.59	7.48	1.83	0.00	0.00	9.47	2.33	0.99	0.02				671	80
							28	58	14	0	0	74	18	8	0					
31S/13E-29F01M		40	5050	72		840	72	54	31	0	--	403	82	25	15.6	0.3	0.15	--	633*	402
05/12/54	--		--	7.5			3.59	4.44	1.35	0.00		6.60	1.71	0.70	0.25				479	71
							38	47	14	0		71	18	8	3					
		40	5787	--		813	64	56	30	1	20	353	80	30	9.0	0.2	0.20	41	602	390
09/29/56	--		--	8.4			3.19	4.60	1.30	0.02	0.67	5.78	1.66	0.85	0.14				505	67
							35	50	14	0	7	63	18	9	2					
		40	5787	--		818	--	--	--	--	0	386	--	30	--	--	--	--	--	392
07/29/59	--		--	8.0							0.00	6.33		0.85					--	75
		40	5050	70		833	--	--	--	--	0	409	--	28	--	--	--	--	--	428
09/29/60	--		--	7.5							0.00	6.70		0.79					--	93
		40	5788	--		1170	32	112	57	1	0	491	164	57	0.0	0.4	0.20	30	776	541
10/16/62	--		--	8.2			1.60	9.21	2.48	0.02	0.00	8.05	3.41	1.61	0.00				695	138
							12	69	19	0	0	62	26	12	0					
		40	5050	66		803	65	60	32	0	31	364	79	29	7.0	0.8	0.12	36	495	409
09/25/63	920		--	8.5			3.24	4.93	1.39	0.00	1.03	5.96	1.64	0.82	0.11				519	59
							34	52	14	0	11	62	17	8	1					
31S/13E-29F04M		40	5050	--		815	66	55	30	0	0	410	79	24	1.5	0.3	0.13	32	469	396
11/08/61	--		--	7.5			3.39	4.52	1.30	0.00	0.00	6.72	1.64	0.68	0.02				492	60
							37	49	14	0	0	74	18	7	0					
		40	5874	--		970	75	55	29	1	67	270	85	36	7.0	0.3	0.10	--	536	413
12/15/65	--		--	8.5			3.74	4.52	1.26	0.02	2.23	4.42	1.77	1.07	0.11				491	80
							39	47	13	0	23	46	18	11	1					

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
SAN LUIS OBISPO HYDRO SUBUNIT																				
PISMO HYDRO SUBAREA						T1086														
31S/13E-29F05M		40	5050	63		858	74	63	30	1	0	437	81	36	6.4	0.4	0.13	--	514	444
10/09/64	--		--	8.0			3.69	5.18	1.30	0.02	0.00	7.16	1.69	1.01	0.10				507	86
							36	51	13	0	0	72	17	10	1					
		40	5050	60		843	73	57	28	1	21	368	82	32	8.0	0.4	0.10	--	500	417
10/07/65	850		--	8.5			3.64	4.69	1.22	0.02	0.70	6.03	1.71	0.90	0.13				484	80
							38	49	13	0	7	64	18	9	1					
		40	5050	--		795	63	44	30	1	0	320	81	29	9.9	--	0.10	--	423	338
10/05/66	1300		--	8.2			3.14	3.62	1.30	0.02	0.00	5.24	1.69	0.82	0.16				416	75
							39	45	16	0	0	66	21	10	2					
		40	5050	--		813	61	58	30	1	--	391	81	27	11.0	0.4	0.10	--	502	391
09/27/67	1540		--	8.3			3.04	4.77	1.30	0.02		6.41	1.69	0.76	0.16				462	--
							33	52	14	0		71	19	8	2					
31S/13E-31J01M		40	5786	70		1010	95	52	56	1	0	547	35	68	0.0	0.1	0.19	38	618	451
08/28/63	1315		--	7.2			4.74	4.28	2.43	0.02	0.00	8.96	0.73	1.92	0.00				615	2
							41	37	21	0	0	77	6	16	0					
		40	5050	70		1001	76	57	59	1	--	503	42	67	1.5	0.3	0.22	--	625	424
09/28/67	1600		--	7.9			3.79	4.69	2.57	0.02		8.24	0.87	1.89	0.02				552	11
							34	42	23	0		75	8	17	0					-
31S/13E-32N01M		40	5674	--		1080	32	18	135	2	0	140	0	241	14.0	0.6	0.00	--	608	154
11/15/65	--		--	7.5			1.60	1.48	5.87	0.05	0.00	2.29	0.00	6.80	0.22				512	39
							18	16	65	1	0	25	0	73	2					
31S/13E-33G02M		40	5674	--		850	83	35	35	0	0	380	25	50	4.0	0.8	0.05	--	484	351
12/15/65	--		--	7.6			4.14	2.88	1.52	0.00	0.00	6.23	0.52	1.41	0.06				420	39
							48	34	18	0	0	76	6	17	1					
32S/12E-01J01M		40	5050	68		918	40	48	82	3	--	322	59	95	13.5	0.6	0.27	--	554	297
10/04/67	1600		--	7.8			1.99	3.95	3.57	0.08		5.28	1.23	2.68	0.22				500	33
							21	41	37	1		56	13	28	2					
32S/12E-01R01M		40	5788	--		2220	94	17	410	17	0	1021	4	277	0.0	0.1	5.40	37	1300	305
08/28/63	1540		--	7.5			4.69	1.40	17.83	0.43	0.00	16.73	0.08	7.81	0.00				1364	0
							19	6	73	2	0	68	0	32	0					
32S/12E-01R02M		40	5788	--		1000	42	43	130	7	0	559	1	73	0.0	0.6	0.72	34	642	282
08/28/63	1615		--	7.8			2.09	3.54	5.65	0.18	0.00	9.16	0.02	2.06	0.00				607	0
							18	31	49	2	0	81	0	18	0					
32S/12E-12K01M		40	5788	64		2050	168	21	390	22	0	1185	70	219	3.6	0.2	1.12	38	1440	506
10/16/63	1500		--	7.8			8.38	1.73	16.96	0.56	0.00	19.42	1.46	6.17	0.06				1516	0
							30	6	61	2	0	72	5	23	0					
		40	5788	67		2700	202	126	290	12	13	531	677	355	0.0	0.4	1.00	--	2152	1023
07/08/64	--		--	8.4			10.08	10.36	12.61	0.31	0.43	8.70	14.09	10.01	0.00				1938	566
							30	31	38	1	1	26	42	30	0					
32S/12E-12R02M		40	5050	67		2175	68	75	361	27	0	1074	94	213	2.5	0.5	0.90	42	1409	478
05/01/63	1000		--	7.7			3.39	6.17	15.70	0.69	0.00	17.60	1.96	6.01	0.04				1412	0
							13	24	60	3	0	69	8	23	0					
		40	5788	65		2400	137	38	405	24	0	1265	59	211	0.0	0.1	1.10	41	1472	499
08/28/63	1730		--	7.6			6.84	3.12	17.62	0.61	0.00	20.73	1.23	5.95	0.00				1539	0
							24	11	62	2	0	74	4	21	0					
		40	5788	64		1875	145	41	298	18	0	1198	4	149	6.4	0.2	1.52	48	1270	531
10/16/63	--		--	8.1			7.23	3.37	12.96	0.46	0.00	19.63	0.08	4.20	0.10				1301	0
							30	14	54	2	0	82	0	17	0					
32S/12E-12R03M		40	5050	64		2153	79	88	300	18	--	1216	1	143	23.0	0.4	1.50	--	1346	559
10/04/67	1600		--	7.9			3.94	7.24	13.05	0.46		19.93	0.02	4.03	0.37				1252	0
							16	29	53	2		82	0	17	1					
32S/12E-13A01M		40	5009	65		2960	180	158	305	12	0	652	680	290	81.0	0.4	0.57	53	2080	1099
07/16/52	--		--	7.3			8.98	12.99	13.27	0.31	0.00	10.69	14.16	8.18	1.31				2081	564
							25	36	37	1	0	31	41	24	4					
		40	5786	63		2900	159	157	285	11	0	508	740	314	41.5	0.6	0.95	--	2132*	1043
09/28/54	--		--	8.0			7.93	12.91	12.40	0.28	0.00	8.33	15.41	8.85	0.67				1968	626
							24	38	37	1	0	25	46	27	2					
		40	5050	64		2740	162	158	272	13	--	515	737	307	39.2	0.6	0.72	--	2055*	1054
10/29/54	--		--	7.4			8.08	12.99	11.83	0.33		8.44	15.34	8.66	0.63				1943	632
							24	39	36	1		25	46	26	2					
		40	5009	64		3050	145	175	301	13	0	574	716	312	34.0	1.2	0.96	60	2040	1082
05/18/55	1300		--	7.8			7.23	14.39	13.09	0.33	0.00	9.41	14.91	8.80	0.55				2041	611
							21	41	37	1	0	28	44	26	2					
		40	5050	--		2907	171	155	300	14	0	615	724	296	35.0	0.8	0.92	60	2115	1065
03/06/63	--		--	7.1			8.53	12.75	13.05	0.36	0.00	10.08	15.07	8.40	0.56				2062	561
							25	37	38	1	0	29	44	25	2					
		40	5788	--		2700	164	139	310	12	0	626	727	296	24.0	0.8	0.84	46	2056	981
08/28/63	1700		--	7.4			8.12	11.43	13.48	0.31	0.00	10.26	15.14	8.35	0.39				2028	468
							24	34	40	1	0	30	44	24	1					
		40	5050	64		2771	150	148	285	11	--	622	648	285	22.0	1.0	0.78	--	2002	984
09/27/67	915		--	8.1			7.48	12.17	12.40	0.28		10.19	13.49	8.04	0.35				1857	474
							23	38	38	1		32	42	25	1					
32S/12E-13C02M		40	5050	62		1210	111	63	58	4	0	511	178	49	5.5	--	0.20	--	789	536
10/17/66	1000		--	8.3			5.54	5.18	2.52	0.10	0.00	8.37	3.70	1.38	0.09				720	117
							41	39	19	1	0	62	27	10	1					
32S/12E-13J01M		40	5786	62		3180	128	138	351	17	0	816	262	517	6.1	0.2	0.38	--	1993*	808
09/28/54	--		--	7.4			6.39	11.35	15.27	0.43	0.00	13.37	5.45	14.58	0.13				1823	219
							19	34	45	1	0	40	16	43	0					
		40	5050	63		2965	127	140	344	18	0	797	252	504	6.9	0.2	0.62	--	1830*	893
10/29/54	--		--	7.9			6.34	11.51	14.96	0.46	0.00	13.06	5.25	14.21	0.11				1785	239
							19	35	45	1	0	40	16	43	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUES													
SAN LUIS OBISPO HYDRO SUBUNIT																				
PISMO HYDRO SUBAREA							T1086													
32S/12E-13J01M		40	5787	62		3410	133	150	383	16	0	842	273	600	0.0	0.2	1.00	31	2391	950
08/29/57	--		--		8.1		6.64	12.33	16.66	0.41	0.00	13.80	5.68	16.92	0.00				2002	259
							16	34	46	1	0	38	16	46	0					
		40	5787	65		3105	127	141	360	13	0	817	314	514	0.0	0.3	0.46	72	2230	898
07/27/59	--		--		7.0		6.34	11.59	15.66	0.33	0.00	13.39	6.54	14.49	0.00				1944	228
							19	34	46	1	0	39	19	42	0					
		40	5788	66		2220	105	107	234	13	0	849	195	242	1.7	1.1	1.05	43	1402*	783
09/29/60	1500		--		7.7		5.24	8.80	10.18	0.33	0.00	13.91	4.05	6.82	0.03				1361	7
							21	36	41	1	0	56	16	27	0					
		40	5050	62		3086	126	135	354	14	0	827	246	515	1.5	0.6	0.65	64	1889	870
11/08/61	--		--		7.2		6.29	11.10	15.40	0.36	0.00	13.55	5.12	14.52	0.02				1864	192
							19	33	46	1	0	41	15	44	0					
		40	5788	64		2500	116	122	310	11	0	811	235	400	4.0	0.2	0.75	45	1616	792
10/10/62	945		--		7.3		5.79	10.03	13.48	0.28	0.00	13.29	4.89	11.28	0.06				1643	127
							20	34	46	1	0	45	17	38	0					
		40	5050	64		2326	114	110	255	14	0	834	204	280	5.0	0.7	0.84	60	1450	738
03/06/63	--		--		7.4		5.69	9.05	11.09	0.36	0.00	13.67	4.25	7.90	0.08				1454	54
							22	34	42	1	0	53	16	30	0					
		40	5788	64		2700	145	108	335	13	0	796	246	435	0.0	0.2	0.83	47	1736	807
08/29/63	900		--		7.3		7.23	8.86	14.57	0.33	0.00	13.05	5.12	12.27	0.00				1722	154
							23	29	47	1	0	43	17	40	0					
		40	5788	63		2500	152	94	310	15	0	796	253	442	0.0	0.4	0.93	45	1776	766
09/26/63	1540		--		7.4		7.58	7.73	13.48	0.38	0.00	13.05	5.27	12.46	0.00				1704#	113
							26	26	46	1	0	42	17	40	0					
		40	5788	64		2450	163	98	302	14	0	805	246	418	4.0	0.2	0.84	--	1766	810
06/18/64	--		--		8.0		8.13	8.06	13.14	0.36	0.00	13.19	5.12	11.79	0.06				1642	150
							27	27	44	1	0	44	17	39	0					
		40	5050	61		3142	139	140	340	12	0	804	248	533	0.0	0.6	0.90	--	1929	923
10/07/65	940		--		7.9		6.94	11.51	14.79	0.31	0.00	13.18	5.16	15.03	0.00				1809	264
							21	34	44	1	0	39	15	45	0					
		40	5050	64		2769	103	134	308	14	22	776	215	420	2.5	0.5	0.80	--	1711	809
09/26/67	1510		--		8.4		5.14	11.02	13.40	0.36	0.73	12.72	4.48	11.84	0.04				1602	136
							17	37	45	1	2	43	15	40	0					
32S/12E-13J02M		40	5788	64		4080	180	156	462	27	0	209	331	789	0.0	0.0	0.60	45	2548*	1091
09/29/60	1445		--		7.5		8.96	12.83	20.10	0.69	0.00	3.42	6.89	22.25	0.00				2094#	920
							21	30	47	2	0	10	21	68	0					
		40	5050	62		4719	197	159	591	15	0	655	241	1160	12.0	0.4	0.43	72	3019	1146
11/08/61	--		--		7.2		9.83	13.08	25.71	0.38	0.00	10.73	5.02	32.71	0.19				2770	609
							20	27	52	1	0	22	10	67	0					
		40	5788	--		3900	120	157	575	13	0	671	289	977	3.0	0.2	0.59	45	2648	946
10/10/62	900		--		7.6		5.99	12.91	25.01	0.33	0.00	11.00	6.02	27.55	0.05				2510	396
							13	29	56	1	0	25	13	62	0					
		40	5050	63		4098	185	159	512	13	0	822	341	825	7.5	0.3	0.70	62	2670	1116
03/06/63	--		--		7.4		9.23	13.08	22.27	0.33	0.00	13.47	7.10	23.26	0.12				2510	442
							20	29	50	1	0	31	16	53	0					
		40	5788	63		3610	170	160	515	14	0	750	260	922	0.0	0.1	0.37	46	2600	1083
09/26/63	1530		--		7.4		8.48	13.16	22.40	0.36	0.00	12.29	5.41	27	0.00				2457	468
							19	30	50	1	0	28	12	59	0					
		40	5788	--		3900	198	151	565	15	0	687	281	1039	3.0	0.1	0.64	--	3024	1116
10/13/64	--		--		8.1		9.88	12.42	24.58	0.38	0.00	11.26	5.85	29.30	0.05				2591	552
							21	26	52	1	0	24	13	63	0					
		40	5050	61		5144	194	174	635	16	0	548	224	1353	5.0	0.4	0.45	--	3294	1200
10/07/65	930		--		7.6		9.68	14.31	27.62	0.41	0.00	8.98	4.66	38.15	0.08				2872	750
							19	27	53	1	0	17	9	73	0					
		40	5050	64		4141	134	147	552	14	--	600	301	939	9.5	0.4	0.45	--	2643	940
09/26/67	1700		--		8.2		6.69	12.09	24.01	0.36		9.83	6.27	26.48	0.15				2393	448
							15	28	56	1		23	15	62	0					
32S/12E-13J03M		40	5050	--		3356	203	115	355	6	0	203	580	678	48.0	1.9	0.28	90	2270	980
03/06/63	--		--		7.2		10.13	9.46	15.44	0.15	0.00	3.33	12.07	19.12	0.77				2177	813
							29	27	44	0	0	9	34	54	2					
		40	5788	--		3000	230	107	385	6	0	200	536	766	32.0	1.6	0.28	--	2358	1015
07/08/64	--		--		7.2		11.48	8.60	16.75	0.15	0.00	3.28	11.16	21.60	0.52				2162	851
							31	24	45	0	0	9	30	59	1					
32S/12E-13L01M		40	5050	67		1246	1	14	306	13	0	142	145	287	85.0	0.5	0.17	--	923	60
10/23/67	945		--		8.1		0.05	1.15	13.31	0.33	0.00	2.33	3.02	8.09	1.37				922	0
							0	6	90	2	0	16	20	55	9					
32S/12E-13L02M		40	5050	67		1246	44	41	162	3	0	232	135	162	100.0	0.3	0.19	--	757	279
10/23/67	945		--		8.1		2.19	3.37	7.05	0.08	0.00	3.80	2.81	4.57	1.61				762	88
							17	27	55	1	0	30	22	36	13					
32S/12E-13P01M		40	5050	65		1389	15	12	268	3	0	266	137	167	100.0	0.4	0.15	38	850	87
02/24/60	--		--		7.4		0.75	0.99	11.66	0.08	0.00	4.36	2.85	4.71	1.61				872	0
							6	7	85	1	0	32	21	35	12					
		40	5050	--		1500	29	16	276	4	0	268	149	208	100.0	0.0	0.28	33	924	139
03/03/61	--		--		7.4		1.45	1.31	12.00	0.10	0.00	4.39	3.10	5.86	1.61				947	0
							10	9	61	1	0	29	21	39	11					
		40	5788	--		1340	20	12	281	3	0	354	117	177	55.0	0.2	0.23	31	916	100
10/30/62	1015		--		8.2		1.00	0.99	12.22	0.08	0.00	5.80	2.43	4.99	0.89				871	0
							7	7	86	0	0	41	17	35	6					
		40	5050	--		1665	26	23	304	6	0	302	158	257	79.0	0.4	0.23	34	1048	160
07/08/63	--		--		7.3		1.30	1.89	13.22	0.15	0.00	4.95	3.29	7.25	1.27				1037	0
							8	11	80	1	0	29	20	43	8					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLE	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
SAN LUIS OBISPO HYDRO SUBUNIT																				
PISMO HYDRO SUBAREA						T1086														
32S/12E-13P01M		40	5788	--		1930	29	26	395	6	0	400	169	326	73.0	0.1	0.38	--	1156	180
07/08/64	--		--	8.2			1.45	2.14	17.18	0.15	0.00	6.55	3.52	9.19	1.18				1222	0
							7	10	82	1	0	32	17	45	6					
		40	5874	--		1200	101	46	69	4	0	230	178	124	40.0	0.4	0.05	--	1008	441
12/14/65	--		--	7.7			5.04	3.78	3.00	0.10	0.00	3.77	3.70	3.50	0.64				676	253
							42	32	25	1	0	32	32	30	5					
		40	5050	--		1738	21	28	324	5	0	344	168	262	72.5	0.3	0.23	--	1035	168
09/26/67	1720		--	7.7			1.05	2.30	14.09	0.13	0.00	5.64	3.50	7.39	1.17				1051	0
							6	13	80	1	0	32	20	42	7					
32S/12E-13R01		40	5050	62		7080	310	205	828	15	0	598	340	1844	6.8	0.4	0.44	--	4570*	1618
09/21/55	--		--	7.6			15.47	16.86	36.02	0.38	0.00	9.80	7.08	53	0.11				3844	1127
							22	24	52	1	0	14	10	75	0					
		40	5787	62		5459	204	174	626	15	0	534	234	1434	0.0	0.0	0.70	31	3178	1225
08/29/57	--		--	7.7			10.18	14.31	27.23	0.38	0.00	8.75	4.87	40.44	0.00				2982	787
							19	27	52	1	0	16	9	75	0					
		40	5787	65		4274	235	149	444	24	0	465	185	1089	0.0	0.3	0.28	44	2799	1200
09/30/58	--		--	7.5			11.73	12.25	19.31	0.61	0.00	7.62	3.85	30.71	0.00				2400	819
							27	28	44	1	0	18	9	73	0					
		40	5050	64		5618	--	--	--	--	0	37	--	662	--	0.5	0.32	60	3865	1384
03/06/63	--		--	7.3							0.00	0.61		18.67					--	1354
		40	5050	64		5634	369	205	455	14	--	377	183	1626	4.5	0.5	0.16	--	3640	1765
10/05/67	--		--	7.4			18.41	16.86	19.79	0.36		6.18	3.81	45.85	0.07				3043	1456
							33	30	36	1		11	7	82	0					
32S/12E-24B01M		40	5788	--		2700	149	80	367	18	37	374	179	693	0.0	0.1	0.40	--	1628	792
05/01/65	--		--	8.6			7.43	6.58	15.96	.46	1.23	6.13	3.73	19.54	0.00				1708	333
							24	22	52	1	4	20	12	64	0					
		40	5050	--		2985	95	83	406	20	0	440	175	652	1.0	0.3	0.07	--	1700	579
01/17/66	--		--	8.2			4.74	6.82	17.66	0.51	0.00	7.21	3.64	18.39	0.02				1649	218
							16	23	59	2	0	25	12	63	0					
		40	5050	62		3030	76	110	414	16	0	464	159	701	4.2	--	0.00	--	1690	643
03/09/67	--		--	8.3			3.79	9.05	18.01	0.41	0.00	7.60	3.31	19.77	0.07				1709	262
							12	29	58	1	0	25	11	64	0					
		40	5050	63		2974	80	92	408	20	0	459	165	659	7.0	0.3	0.08	--	1740	578
09/26/67	--		--	7.6			3.99	7.57	17.75	0.51	0.00	7.52	3.43	18.58	0.11				1658	201
							13	25	59	2	0	25	12	63	0					
32S/12E-24B02M		40	5050	--		1155	81	37	98	6	10	198	163	162	1.0	0.5	0.08	--	800	354
04/30/65	--		--	8.3			4.04	3.04	4.26	0.15	0.33	3.24	3.39	4.57	0.02				656	175
							35	26	37	1	3	28	29	39	0					
		40	5050	76		1035	101	32	79	5	24	332	147	62	0.0	0.3	0.05	--	651	384
01/17/66	--		--	8.3			5.04	2.63	3.44	0.13	0.80	5.44	3.06	1.75	0.00				614	72
							45	23	31	1	7	49	28	16	0					
		40	5050	68		964	89	27	59	5	0	280	148	48	1.9	--	0.00	--	571	333
03/09/67	--		--	7.9			4.44	2.22	2.57	0.13	0.00	4.59	3.08	1.35	0.03				516	103
							47	24	27	1	0	51	34	15	0					
		40	5050	--		919	87	31	70	5	0	366	142	39	1.3	0.2	0.05	--	610	345
09/26/67	--		--	8.0			4.34	2.55	3.04	0.13	0.00	6.00	2.96	1.10	0.02				556	45
							43	25	30	1	0	59	29	11	0					
32S/12E-24B03M		40	5788	--		960	49	64	79	5	0	355	155	73	3.0	0.1	0.13	--	638	386
05/01/65	--		--	8.2			2.44	5.26	3.44	0.13	0.00	5.82	3.23	2.06	0.05				603	95
							22	47	30	1	0	52	29	16	0					
		40	5050	72		1065	103	36	74	5	0	345	158	79	1.0	0.2	0.00	--	670	405
01/17/66	--		--	8.0			5.14	2.96	3.22	0.13	0.00	5.65	3.29	2.23	0.02				626	122
							45	26	28	1	0	50	29	20	0					
		40	5050	66		911	70	37	69	4	0	334	140	45	2.4	--	0.00	--	540	327
03/09/67	--		--	7.9			3.49	3.04	3.00	0.10	0.00	5.47	2.91	1.27	0.04				532	53
							36	32	31	1	0	56	30	13	0					
		40	5050	69		978	95	40	57	4	0	371	162	41	0.0	0.2	0.03	--	652	402
09/26/67	--		--	7.7			4.74	3.29	2.48	0.10	0.00	6.08	3.37	1.16	0.00				582	98
							45	31	23	1	0	57	32	11	0					
32S/13E-05C01M		40	5788	--		880	20	35	125	2	0	204	16	199	0.0	0.6	0.07	11	618	194
08/28/63	1245		--	8.0			1.00	2.88	5.44	0.05	0.00	3.34	0.33	5.61	0.00				509	27
							11	31	58	0	0	36	4	60	0					
32S/13E-05C51M		40	5788	73		2200	184	16	340	21	0	1292	2	160	0.0	0.1	1.40	42	1294	525
08/28/63	645		--	7.9			9.18	1.31	14.79	0.54	0.00	21.17	0.04	4.51	0.00				1402	0
							35	5	57	2	0	82	0	17	0					
		40	5050	68		485	18	13	56	1	--	78	68	61	2.5	0.3	0.16	--	307	98
09/30/67	1230		--	7.3			0.90	1.07	2.43	0.02		1.28	1.41	1.72	0.04				259	34
							20	24	55	1		29	32	39	1					
32S/13E-05G51M		40	5788	66		315	22	6	39	1	0	63	37	51	0.0	0.2	0.05	21	234	80
08/28/63	1045		--	6.1			1.10	0.49	1.70	0.02	0.00	1.03	0.77	1.44	0.00				209	28
							33	15	51	1	0	32	24	44	0					
32S/13E-06M01M		40	5874	--		2050	71	24	383	16	88	653	54	268	1.0	0.5	2.65	--	1356	276
11/15/65	--		--	8.3			3.54	1.97	16.66	0.41	2.93	10.70	1.12	7.56	0.02				1230	0
							16	9	74	2	13	48	5	34	0					
		40	5050	--		1829	19	50	329	14	--	768	0	206	57.0	0.5	2.90	--	1104	253
09/27/67	--		--	7.9			0.95	4.11	14.31	0.36		12.59	0.00	5.81	0.92				1056	0
							5	21	72	2		65	0	30	5					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB	SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
								MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT																					
ARROYO GRANDE HYDRO SUBAREA							T10C1														
11N/35W-06C01S		40	5050		69		1025	116	39	55	3	0	217	331	35	4.2	0.7	0.12	41	758	455
11/03/60	--			--	8.0			5.89	3.21	2.39	0.08	0.00	3.56	6.89	0.99	0.07				734	277
								51	28	21	1	0	31	60	9	1					
		40	5050		--		850	85	31	56	3	0	181	232	49	9.5	0.4	0.10	42	580	340
08/22/62	1300			--	7.6			4.24	2.55	2.43	0.08	0.00	2.97	4.83	1.38	0.15				597	191
								46	27	26	1	0	32	52	15	2					
12N/35W-27M01S		40	5788		62		760	39	32	60	3	0	143	37	150	2.0	0.2	0.07	30	488	229
08/23/62	--			--	7.1			1.95	2.63	2.61	0.08	0.00	2.34	0.77	4.23	0.03				424	112
								27	36	36	1	0	32	10	57	0					
		40	5788		--		760	43	35	65	3	0	135	35	169	12.0	0.2	0.08	--	572	252
06/24/64	--			--	7.1			2.14	2.88	2.83	0.08	0.00	2.21	0.73	4.76	0.19				429	141
								27	36	36	1	0	28	9	60	2					
12N/35W-28L01S		40	5050		66		319	12	9	33	2	0	16	4	26	102.5	0.1	0.00	--	234	67
10/30/67	1550			--	7.0			0.60	0.74	1.43	0.05	0.00	0.26	0.08	0.73	1.65				197	54
								21	26	51	2	0	10	3	27	60					
12N/35W-29M01S		40	5009		--		1430	156	72	79	6	0	496	320	74	0.2	--	0.06	36	988	686
11/12/50	--			--	7.4			7.78	5.92	3.44	0.15	0.00	8.13	6.66	2.09	0.00				988	279
								45	34	20	1	0	48	39	12	0					
12N/35W-29N01S		40	5050		62		1727	206	91	66	2	0	423	480	112	0.0	0.7	0.00	--	1474	889
06/18/64	--			--	7.2			10.28	7.48	2.87	0.05	0.00	6.93	9.99	3.16	0.00				1166	542
								50	36	14	0	0	34	50	16	0					
12N/35W-29N02S		40	5788		--		1460	158	69	69	2	0	407	389	120	0.0	0.3	0.10	29	1172*	761
03/02/61	--			--	7.5			7.88	7.32	3.00	0.05	0.00	6.67	8.10	3.38	0.00				1057	427
								43	40	16	0	0	37	45	19	0					
		40	5050		--		1860	204	135	67	3	0	412	611	158	0.0	0.6	0.01	24	1554	1065
07/08/63	--			--	8.0			10.18	11.10	2.91	0.08	0.00	6.75	12.72	4.45	0.00				1406	727
								42	46	12	0	0	28	53	19	0					
12N/35W-29W03S		40	5788		69		705	49	27	62	4	0	200	84	75	4.0	0.2	0.10	35	428	234
07/12/62	1100			--	7.5			2.44	2.22	2.70	0.10	0.00	3.28	1.75	2.11	0.06				439	70
								33	30	36	1	0	45	24	29	1					
12N/35W-30W01S		40	5050		64		1985	165	117	63	3	0	610	365	106	3.1	0.4	0.01	33	1214	893
09/26/61	--			--	8.0			8.23	9.62	2.74	0.08	0.00	10.00	7.60	2.99	0.05				1156	393
								40	46	13	0	0	48	37	14	0					
		40	5788		67		1600	151	105	61	5	0	600	355	59	0.0	0.1	0.00	30	1140	809
07/13/62	--			--	7.7			7.53	8.63	2.65	0.13	0.00	9.83	7.39	1.66	0.00				1062	317
								40	46	14	1	0	52	39	9	0					
		40	5788		61		1775	89	178	70	3	0	563	487	109	0.0	0.2	0.17	--	1334	955
06/19/64	--			--	7.8			4.44	14.64	3.04	0.08	0.00	9.23	10.14	3.07	0.00				1214	493
								20	66	14	0	0	41	45	14	0					
12N/35W-31H01S		40	5788		70		1020	91	39	71	4	0	275	217	81	0.0	0.2	0.20	32	516*	388
03/02/61	--			--	7.5			4.54	3.21	3.09	0.10	0.00	4.51	4.52	2.28	0.00				671	162
								41	29	28	1	0	40	40	20	0					
		40	5788		72		980	97	35	64	5	0	254	232	67	0.0	0.4	0.12	31	718	386
08/23/62	--			--	7.4			4.84	2.88	2.78	0.13	0.00	4.16	4.83	1.89	0.00				657	178
								45	27	26	1	0	38	44	17	0					
		40	5788		70		960	64	47	72	4	0	246	198	69	3.0	0.2	0.18	--	638	353
06/19/64	--			--	7.4			3.19	3.86	3.13	0.10	0.00	4.03	4.12	1.94	0.05				579	151
								31	37	30	1	0	40	41	19	0					
12N/35W-32D01S		40	5788		69		790	67	28	68	4	0	268	96	77	0.0	0.1	0.26	38	492*	282
03/02/61	--			--	7.6			3.34	2.30	2.96	0.10	0.00	4.39	2.00	2.17	0.00				511	62
								38	26	34	1	0	51	23	25	0					
12N/35W-32N01S		40	5050		--		426	6	8	66	2	0	52	9	87	27.0	0.2	0.04	--	246	48
11/01/67	935			--	7.2			0.30	0.66	2.87	0.05	0.00	0.85	0.19	2.45	0.43				231	5
								8	17	74	1	0	22	5	62	11					
12N/35W-33B02S		40	5050		--		534	32	14	53	3	--	146	36	62	21.0	0.1	0.00	--	327	137
10/31/67	1000			--	8.1			1.60	1.15	2.30	0.08		2.39	0.75	1.75	0.34				293	18
								31	22	45	1		46	14	33	6					
12N/35W-34G04S		40	5788		64		1160	104	55	55	3	0	377	183	74	18.0	0.2	0.08	--	730	486
06/24/64	--			--	7.6			5.19	4.52	2.39	0.08	0.00	6.18	3.81	2.09	0.29				678	177
								43	37	20	1	0	56	31	17	2					
12N/35W-35E01S		40	5788		62		1035	92	56	49	3	0	388	181	69	7.0	0.4	0.05	30	786	460
08/23/62	--			--	7.5			4.59	4.60	2.13	0.08	0.00	6.36	3.77	1.94	0.11				679*	142
								40	40	19	1	0	52	31	16	1					
12N/35W-35E03S		40	5788		66		1100	94	59	57	3	0	366	197	71	5.0	0.2	0.10	--	716	477
06/24/64	--			--	7.4			4.69	4.85	2.48	0.08	0.00	6.00	4.10	2.00	0.08				667	177
								39	40	20	1	0	49	34	16	1					
12N/35W-35H02S		40	5788		--		1040	155	24	51	4	0	403	183	65	3.0	0.4	0.05	29	762	488
08/23/62	--			--	7.3			7.78	1.97	2.22	0.10	0.00	6.60	3.81	1.83	0.05				714	157
								64	16	18	1	0	54	31	15	0					
		40	5788		64		1090	110	60	60	4	0	418	194	71	4.0	0.1	0.03	--	770	521
07/17/64	--			--	8.2			5.49	4.93	2.61	0.10	0.00	6.85	4.04	2.00	0.06				709	178
								42	38	20	1	0	53	31	15	0					
12N/35W-35J01S		40	5788		--		350	12	5	50	3	0	61	9	72	0.0	0.6	0.05	32	268	51
08/23/62	--			--	7.1			0.60	0.41	2.17	0.08	0.00	1.00	0.19	2.03	0.00				214	1
								18	13	67	2	0	31	6	63	0					
31S/14E-22K M		40	5050		75		875	110	34	38	2	--	366	152	25	2.5	0.4	0.06	39	584	415
10/20/66	--			--	7.4			5.49	2.80	1.65	0.05		6.00	3.16	0.70	0.04				583	114
								55	28	16	0		6[illegible]	32	7	0					
31S/14E-31K01M		40	5050		--		789	90	43	27	2	0	363	122	18	2.4	0.5	0.04	30	526	402
06/03/64	--			--	7.6			4.49	3.54	1.17	0.05	0.00	6.28	2.54	0.51	0.04				524	88
								46	38	13	0	0	67	27	5	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
ARROYO GRANDE HYDRO SUBUNIT																				
ARROYO GRANDE HYDRO SUBAREA						[10C]														
31S/14E-32G03M		40	5050	59		838	78	43	40	2	0	296	157	32	1.5	0.5	0.03	--	554	372
06/03/64	--		--	8.0			3.89	3.54	1.74	0.05	0.00	4.85	3.27	0.90	0.02				500	129
							42	38	19	0	0	54	36	10	0					
32S/12E-24J01M		40	5050	--		580	33	17	52	4	0	43	56	64	96.0	0.1	0.07	30	403	153
09/28/61	--		--	7.8			1.65	1.40	2.26	0.10	0.00	0.70	1.16	1.80	1.55				374	118
							30	26	42	2	0	13	22	34	30					
32S/12E-24K01M		40	5050	--		2445	145	65	333	7	0	442	162	603	8.1	0.2	0.03	33	1677	630
09/28/61	--		--	7.9			7.23	5.34	14.48	0.18	0.00	7.24	3.37	17.00	0.13				1574	267
							27	20	53	1	0	26	12	61	0					
		40	5738	--		2600	158	58	312	6	0	445	192	550	0.0	0.1	0.08	32	1514	633
07/13/62	--		--	7.8			7.88	4.77	13.57	0.15	0.00	7.29	4.00	15.51	0.00				1527	268
							30	18	51	1	0	27	15	58	0					
		40	5050	62		1197	81	51	109	8	--	482	95	107	3.0	0.2	0.14	--	748	412
11/02/67	1415		--	8.1			4.04	4.19	4.74	0.20		7.90	1.98	3.02	0.05				692	17
							31	32	36	1		61	15	23	0					
32S/12E-24R01M		40	5788	67		1500	69	63	160	6	0	341	110	268	33.0	0.1	0.12	--	898	431
06/16/65	--		--	7.9			3.44	5.18	6.96	0.15	0.00	5.59	2.29	7.56	0.53				877	151
							22	33	44	1	0	35	14	47	3					
		40	5050	63		1687	113	47	137	3	0	187	87	345	67.0	0.2	0.08	--	1082	476
01/18/66	--		--	7.6			5.64	3.86	5.96	0.08	0.00	3.06	1.81	9.73	1.08				892	323
							36	25	38	0	0	19	11	62	7					
		40	5050	67		4280	106	89	664	21	0	984	48	871	5.5	--	0.70	--	2410	631
03/10/67	--		--	8.2			5.29	7.32	28.88	0.54	0.00	16.13	1.00	24.56	0.09				2289	0
							13	17	69	1	0	39	2	59	0					
		40	5050	62		826	43	22	79	4	0	92	77	96	112.5	0.2	0.04	--	557	198
09/27/67	--		--	7.7			2.14	1.81	3.44	0.10	0.00	1.51	1.60	2.71	1.81				479	122
							29	24	46	1	0	20	21	35	24					
32S/12E-24R02M		40	5788	64		745	61	40	45	2	0	226	132	64	10.0	0.1	0.10	--	500	317
06/16/65	--		--	7.9			3.04	3.29	1.96	0.05	0.00	3.70	2.75	1.80	0.16				466	132
							36	39	23	1	0	45	33	21	2					
		40	5050	62		758	75	23	45	2	0	203	94	71	9.5	0.2	0.00	--	458	282
01/18/66	--		--	8.1			3.74	1.89	1.96	0.05	0.00	3.33	1.96	2.00	0.15				420	115
							49	25	26	1	0	45	26	27	2					
		40	5050	63		1060	77	46	55	3	0	216	75	141	23.0	--	0.00	--	581	381
03/09/67	--		--	7.9			3.84	3.78	2.39	0.08	0.00	3.54	1.56	3.98	0.37				527#	204
							38	37	24	1	0	37	16	42	4					
		40	5050	62		912	82	30	53	3	0	206	85	121	29.0	0.2	0.00	--	580	328
09/27/67	--		--	7.9			4.09	2.47	2.30	0.08	0.00	3.38	1.77	3.41	0.47				505	159
							46	28	26	1	0	37	20	38	5					
32S/12E-24R03M		40	5738	66		1140	116	52	63	3	0	403	168	103	5.0	0.2	0.08	--	748	504
06/16/65	--		--	7.7			5.79	4.28	2.74	0.08	0.00	6.60	3.50	2.90	0.08				709	173
							45	33	21	1	0	50	27	22	1					
		40	5050	67		1051	110	45	50	3	0	376	167	54	1.0	0.2	0.00	--	640	460
01/19/66	--		--	7.8			5.49	3.70	2.17	0.08	0.00	6.16	3.48	1.52	0.02				616	152
							46	32	19	1	0	55	31	14	0					
		40	5050	70		922	80	46	44	3	0	339	163	32	0.0	0.2	0.03	--	612	389
09/26/67	--		--	7.6			3.99	3.78	1.91	0.08	0.00	5.56	3.39	0.90	0.00				535	111
							41	39	20	1	0	56	34	9	0					
32S/13E-01G01M		40	5786	68		865	92	46	28	2	0	382	132	24	5.0	0.2	0.00	--	556*	419
09/30/54	--		--	8.2			4.59	3.78	1.22	0.05	0.00	6.26	2.75	0.68	0.08				517	106
							48	39	13	0	0	64	28	7	1					
		40	5788	--		890	102	51	32	2	6	413	137	34	0.0	0.2	0.08	26	578*	464
03/02/61	--		--	8.3			5.09	4.19	1.39	0.05	0.20	6.77	2.85	0.96	0.00				594	115
							47	39	13	0	2	63	26	9	0					
		40	5050	59		958	106	29	31	3	0	366	144	26	1.8	--	0.00	--	549	384
10/17/66	845		--	8.3			5.29	2.38	1.35	0.08	0.00	6.00	3.00	0.73	0.03				521#	84
							58	26	15	1	0	61	31	7	0					
32S/13E-01H01M		40	5050	--		887	103	50	29	2	26	338	147	29	0.5	0.6	0.03	--	614	463
06/03/64	--		--	8.5			5.14	4.11	1.26	0.05	0.87	5.54	3.06	0.82	0.01				554	142
							49	39	12	0	8	54	30	8	0					
32S/13E-04N01M		40	5788	70		220	7	3	40	1	0	30	9	53	3.6	1.4	0.05	63	200	30
08/28/63	1115		--	6.2			0.35	0.25	1.74	0.02	0.00	0.49	0.19	1.49	0.06				196#	5
							15	10	74	1	0	22	8	67	3					
32S/13E-06J01M		40	5788	--		685	42	12	72	2	0	103	43	135	0.0	1.8	0.03	45	374*	155
03/03/61	--		--	6.8			2.09	0.99	3.13	0.05	0.00	1.69	0.89	3.81	0.00				404	70
							33	16	50	1	0	26	14	60	0					
32S/13E-09D M		40	5856	77		859	47	37	76	--	0	181	40	173	2.2	--	--	--	468	270
04/13/61	--		--	6.8			2.34	3.04	3.30		0.00	2.97	0.83	4.86	0.03				465	121
							27	35	38		0	34	10	56	0					
32S/13E-11H01M		40	5786	68		267	9	3	30	1	0	49	8	35	0.0	1.0	0.10	--	207*	35
06/11/54	--		--	7.3			0.45	0.25	1.30	0.02	0.00	0.80	0.17	0.99	0.00				112	0
							22	12	64	1	0	41	8	50	0					
32S/13E-12C01M		40	5786	65		1190	135	62	33	2	0	462	239	37	5.0	0.1	0.10	--	938*	592
07/01/54	--		--	7.4			6.74	5.10	1.43	0.05	0.00	7.57	4.97	1.04	0.08				741	213
							51	38	11	0	0	55	36	8	1					
		40	5786	--		1120	133	64	34	2	0	468	232	38	0.0	0.2	0.10	29	734*	595
03/02/61	--		--	7.4			6.64	5.26	1.48	0.05	0.00	7.67	4.83	1.07	0.00				763	211
							49	39	11	0	0	56	36	8	0					
		40	5788	64		1165	186	23	34	2	0	490	187	36	0.0	0.2	0.10	32	766	559
08/24/62	--		--	7.5			9.28	1.89	1.48	0.05	0.00	8.03	3.89	1.01	0.00				742	157
							73	15	12	0	0	62	30	8	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLEN	TEMP PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT ARROYO GRANDE HYDRO SUBAREA					T10C1														
32S/13E-12C01M		40	5050	--	992	100	63	30	2	0	410	172	35	3.0	0.5	0.09	--	676	509
06/03/64	--		--	8.1		4.99	5.18	1.30	0.05	0.00	6.72	3.58	0.99	0.05				608	173
						43	45	11	0	0	59	32	9	0					
32S/13E-12C04M		40	5050	--	1103	101	68	40	2	0	290	300	46	0.0	0.5	0.10	--	808	532
06/03/64	--		--	8.0		5.04	5.59	1.74	0.05	0.00	4.75	6.25	1.30	0.00				701	294
						41	45	14	0	0	39	51	10	0					
32S/13E-12N01M		40	5050	64	1889	263	108	49	2	0	540	644	62	0.5	0.7	0.17	--	1544	1101
06/03/64	--		--	7.1		13.12	8.88	2.13	0.05	0.00	8.85	13.41	1.75	0.01				1395	658
						54	37	9	0	0	37	56	7	0					
32S/13E-12Q02M		40	5736	68	950	106	37	44	1	0	341	83	57	3.1	0.4	0.15	--	550*	417
06/11/54	--		--	7.5		5.29	3.04	1.91	0.02	0.00	5.59	1.73	1.61	0.05				500*	137
						51	30	19	0	0	62	19	18	1					
		40	5787	--	895	79	41	51	1	0	325	123	57	0.0	0.2	0.53	23	611	366
08/29/57	--		--	7.9		3.94	3.37	2.22	0.02	0.00	5.33	2.56	1.61	0.00				536	99
						41	35	23	0	0	56	27	17	0					
		40	5787	--	883	76	44	47	1	0	337	122	52	0.0	0.3	0.24	33	648	371
09/29/58	--		--	7.7		3.79	3.62	2.04	0.02	0.00	5.52	2.54	1.47	0.00				542	95
						40	36	22	0	0	56	27	15	0					
		40	5787	--	880	--	--	--	--	0	319	--	60	--	--	--	--	--	378
09/22/59	--		--	7.4						0.00	5.23		1.69					--	116
		40	5788	66	974	79	45	46	1	0	331	139	51	0.0	0.9	0.30	25	594*	382
10/06/60	--		--	7.5		3.94	3.70	2	0.02	0.00	5.42	2.89	1.44	0.00				550	110
						41	38	21	0	0	56	30	15	0					
		40	5050	59	841	92	45	43	1	0	317	152	57	5.6	0.6	0.05	30	565	415
11/06/61	--		--	8.0		4.59	3.70	1.67	0.02	0.00	5.19	3.16	1.61	0.09				583	155
						45	36	18	0	0	52	31	16	1					
		40	5050	--	927	92	45	45	1	0	317	167	50	0.0	0.7	0.09	37	638	415
08/24/62	--		--	7.6		4.59	3.70	1.96	0.02	0.00	5.19	3.48	1.41	0.00				594	155
						45	36	19	0	0	51	34	14	0					
		40	5788	67	880	95	46	47	1	15	308	179	47	0.0	0.4	0.14	29	640	426
10/09/62	1130		--	8.4		4.74	3.78	2.04	0.02	0.50	5.05	3.73	1.32	0.00				611	148
						45	36	19	0	5	48	35	12	0					
		40	5050	66	965	89	52	49	1	0	317	187	60	0.5	0.7	0.07	36	650	436
09/25/63	1345		--	8.1		4.44	4.28	2.13	0.02	0.00	5.19	3.89	1.69	0.01				632	176
						41	39	20	0	0	48	36	16	0					
		40	5050	--	984	92	48	46	1	0	287	188	71	0.0	0.7	0.08	--	674	427
06/03/64	--		--	7.1		4.59	3.95	2	0.02	0.00	4.70	3.91	2.00	0.00				588	192
						43	37	19	0	0	44	37	19	0					
		40	5050	62	967	102	51	48	1	0	334	173	76	10.0	0.7	0.06	--	660	464
10/07/65	1305		--	8.2		5.09	4.19	2.09	0.02	0.00	5.47	3.60	2.14	0.16				626	190
						45	37	18	0	0	48	32	19	1					
32S/13E-13C02M		40	5050	64	1059	87	73	60	3	0	508	163	50	6.0	0.4	0.23	40	750	517
06/03/64	--		--	8.2		4.34	6.00	2.61	0.08	0.00	8.33	3.39	1.41	0.10				733	100
						33	46	20	1	0	63	26	11	1					
32S/13E-14R02M		40	5786	81	1110	82	64	73	4	0	573	73	53	5.0	0.0	0.68	--	678	468
09/20/54	--		--	7.7		4.09	5.26	3.17	0.10	0.00	9.39	1.52	1.49	0.08				637	0
						32	42	25	1	0	75	12	12	1					
		40	5788	--	1090	108	46	71	3	0	568	80	56	0.0	0.0	0.37	31	616	459
03/02/61	--		--	7.8		5.39	3.78	3.09	0.08	0.00	9.31	1.66	1.58	0.00				675	0
						44	31	25	1	0	74	13	13	0					
32S/13E-15K01M		40	5788	--	650	35	17	88	3	0	57	41	175	6.0	0.4	0.08	--	403	158
06/18/64	--		--	6.7		1.75	1.40	3.83	0.08	0.00	0.93	0.85	4.93	0.10				394	111
						25	20	54	1	0	14	12	72	1					
32S/13E-15L01M		40	5788	73	360	25	9	45	3	0	117	19	55	0.0	0.1	0.05	--	244	100
06/18/64	--		--	7.7		1.25	0.74	1.96	0.08	0.00	1.92	0.39	1.55	0.00				214	4
						31	18	49	2	0	50	10	40	0					
32S/13E-19J02M		40	5788	--	290	12	4	48	2	0	30	2	46	69.0	0.1	0.05	21	248	47
03/06/64	830		--	7.0		0.60	0.33	2.09	0.05	0.00	0.49	0.04	1.30	1.11				219	22
						19	11	68	2	0	17	1	44	38					
		40	5050	--	514	19	9	58	3	--	24	15	65	115.0	0.1	0.10	--	258	85
10/23/67	1840		--	7.2		0.95	0.74	2.52	0.08		0.39	0.31	1.83	1.85				296	65
						22	17	59	2		9	7	42	42					
32S/13E-19L01M		40	5788	--	400	24	8	50	1	0	45	37	50	76.0	0.1	0.02	26	198	93
03/06/64	1655		--	7.1		1.20	0.66	2.17	0.02	0.00	0.74	0.77	1.41	1.22				295	56
						29	16	54	1	0	18	19	34	30					
32S/13E-19N01M		40	5786	79	454	23	9	47	1	0	22	41	57	75.0	0.1	0.03	--	292*	95
09/29/54	--		--	6.9		1.15	0.74	2.04	0.02	0.00	0.36	0.85	1.61	1.21				264	77
						29	19	52	1	0	9	21	40	30					
		40	5787	--	596	22	15	64	2	[illegible]	22	58	73	86.0	0.0	0.20	23	336	117
08/29/57	--		--	6.5		1.10	1.23	2.78	0.05	0.00	0.36	1.21	2.06	1.39				354	99
						21	24	54	1	0	7	24	41	28					
		40	5787	--	511	18	13	53	1	0	22	33	69	75.0	0.2	0.00	30	353	99
02/06/58	--		--	6.3		0.90	1.07	2.30	0.02	0.00	0.36	0.69	1.94	1.21				303	81
						21	25	54	1	0	9	16	46	29					
		40	5050	--	475	27	18	53	1	0	18	59	67	89.0	0.0	0.03	33	353	142
02/18/59	--		--	6.5		1.35	1.46	2.30	0.02	0.00	0.29	1.23	1.89	1.43				356#	127
						26	29	45	0	0	6	25	39	30					
		40	5787	78	62[illegible]	26	17	65	1	0	24	58	75	114.0	0.0	0.30	27	407	135
09/22/59	--		--	7.3		1.30	1.40	2.83	0.02	0.00	0.39	1.21	2.11	1.84				396	115
						23	25	51	0	0	7	22	38	33					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY LAB SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT ARROYO GRANDE HYDRO SUBAREA					TlvCl														
32S/13E-19N01M 09/20/60	--	4 5738 --	6.4		716	32 1.60 24	18 1.48 22	79 3.44 52	2 0.05 1	0 0.00 0	25 0.41 7	96 2.00 35	78 2.20 39	67.0 1.08 19	0.0	0.10	11	456* 396#	154 133
03/02/61	--	4 5788 --	6.3		725	38 1.90 29	17 1.40 22	72 3.13 48	2 0.05 1	0 0.00 0	26 0.43 6	80 1.66 25	84 2.37 36	133.0 2.14 32	0.0	0.10	26	490* 465	165 144
32S/13E-19P01M 03/07/64	1000	40 5788 --	7.3		300	17 0.85 28	6 0.49 16	38 1.65 54	2 0.05 2	0 0.00 0	35 0.57 20	5 0.10 4	46 1.30 46	54.0 0.87 31	0.1	0.05	26	211 212#	67 38
32S/13E-19Q01M 03/06/64	1100	40 5788 --	6.5		450	22 1.10 23	10 0.82 18	62 2.70 58	2 0.05 1	0 0.00 0	39 0.64 14	36 0.75 16	66 1.86 41	80.0 1.29 28	0.1	0.05	11	336 309	96 64
32S/13E-19R01M 03/06/64	940	40 5788 --	6.8		630	43 2.14 32	16 1.31 20	73 3.17 47	2 0.05 1	0 0.00 0	18 0.29 4	74 1.54 24	76 2.14 33	155.0 2.50 39	0.1	0.07	1	449 449	174 159
32S/13E-20M01M 03/04/64	1610	40 5788 --	7.1		500	23 1.15 21	8 0.66 12	35 1.52 28	80 2.05 38	0 0.00 0	123 2.01 39	14 0.29 6	92 2.59 50	20.0 0.32 6	0.1	0.05	5	337 338	91 0
32S/13E-20M03M 03/04/64	1650	40 5788 --	68 7.1		700	28 1.40 19	29 2.38 33	78 3.39 47	1 0.02 0	0 0.00 0	26 0.46 7	85 1.77 26	82 2.31 34	142.0 2.29 33	0.1	0.05	27	542 486#	189 166
06/17/64	--	40 5788 --	63 6.7		650	26 1.30 19	28 2.30 34	74 3.22 47	1 0.02 0	0 0.00 0	28 0.46 7	77 1.60 24	85 2.40 36	133.0 2.14 32	0.1	0.05	--	470 438	180 157
32S/13E-20N01M 06/17/64	--	40 5788 --	7.2		900	71 3.54 37	40 3.29 35	60 2.61 27	3 0.08 1	0 0.00 0	170 2.79 29	135 2.81 29	78 2.20 23	116.0 1.87 19	0.1	0.10	--	630 587	342 203
32S/13E-20N05M 03/05/64	940	40 5788 --	7.0		600	29 1.45 24	19 1.56 26	70 3.04 50	2 0.05 1	0 0.00 0	38 0.62 10	93 1.94 32	63 1.78 29	107.0 1.72 28	0.1	0.05	28	450 430	151 120
10/25/67	1115	40 5050 --	7.3		1114	45 2.24 22	33 2.71 27	115 5.00 50	2 0.05 0	--	37 0.61 6	105 2.19 21	187 5.27 52	132.5 2.14 21	0.1	0.05	--	697 638	248 218
32S/13E-22C01M 03/03/61	--	40 5788 --	6.8		390	20 1.00 23	14 1.16 27	48 2.09 49	2 0.05 1	0 0.00 0	108 1.77 42	41 0.85 20	55 1.55 37	0.0 0.00 0	0.8	0.26	50	288* 285	108 19
32S/13E-22P01M 03/03/61	--	40 5788 --	7.5		2200	297 14.82 49	134 11.02 36	98 4.26 14	4 0.10 0	0 0.00 0	621 10.18 33	822 17.11 56	121 3.41 11	0.0 0.00 0	0.2	0.21	27	1938* 1809	1293 784
32S/13E-22Q01M 06/04/64	--	40 5050 --	64 7.6		2163	290 14.47 49	131 10.77 37	93 4.04 14	4 0.10 0	0 0.00 0	555 9.10 31	719 14.97 52	115 3.24 11	102.0 1.64 6	0.8	0.20	35	1871 1763	1263 808
32S/13E-22R01M 06/04/64	--	40 5050 --	64 7.8		2020	235 11.73 42	147 12.09 44	82 3.57 13	7 0.18 1	0 0.00 0	752 12.32 45	584 12.16 44	99 2.79 10	4.6 0.07 0	0.6	0.16	47	1671 1577	1192 975
32S/13E-23A01M 11/09/50	--	40 5009 --	8.0		1370	163 8.13 47	73 6.00 35	64 2.78 16	8 0.20 1	0 0.00 0	566 9.28 82	25 0.52 5	52 1.47 13	0.5 0.01 0	--	0.04	38	934 702#	707 243
32S/13E-23F01M 08/24/62	--	40 5788 --	7.4		1900	159 7.93 32	159 13.08 53	78 3.39 14	4 0.10 0	0 0.00 0	669 10.96 45	488 10.16 42	116 3.27 13	0.0 0.00 0	0.4	0.24	31	1530 1365	1051 502
06/04/64	--	40 5050 --	64 7.3		1627	213 10.63 44	117 9.62 39	92 4.00 16	3 0.08 0	0 0.00 0	724 11.87 48	469 9.76 40	102 2.88 12	8.0 0.13 0	0.5	0.24	42	1432 1403	1013 419
10/17/66	1230	40 5050 --	60 8.1		2020	216 10.78 45	112 9.21 39	82 3.57 15	5 0.13 0	0 0.00 0	628 10.29 43	516 10.74 45	102 2.88 12	7.4 0.12 0	--	0.30	--	1520 1350	1000 485
32S/13E-23F02M 03/03/61	--	40 5788 --	7.7		1640	200 9.98 45	106 8.72 39	82 3.57 16	3 0.08 0	0 0.00 0	614 10.06 45	436 9.08 40	117 3.30 15	0.0 0.00 0	0.3	0.23	27	1368* 1274	936 432
32S/13E-23R01M 09/19/62	--	40 5009 --	75 7.8		860	54 2.69 27	46 3.78 39	70 3.04 31	11 0.28 3	0 0.00 0	426 6.98 72	69 1.44 15	43 1.21 12	1.8 0.03 0	0.4	0.10	38	543 543	324 0
32S/13E-24A02M 06/04/64	--	40 5788 --	64 7.7		1240	166 8.28 52	57 4.69 30	64 2.78 18	1 0.02 0	0 0.00 0	440 7.21 46	329 6.85 44	59 1.66 11	0.0 0.00 0	0.4	0.18	27	980 920	649 288
32S/13E-24D01M 06/04/64	--	40 5788 --	66 7.7		1360	174 8.68 50	60 4.93 28	82 3.57 21	5 0.13 1	0 0.00 0	529 8.67 51	308 6.41 37	71 2.00 12	0.0 0.00 0	0.4	0.16	31	960 992	681 247
32S/13E-24G01M 06/04/64	--	40 5050 --	64 7.8		1656	155 7.73 36	114 9.37 44	93 4.04 19	2 0.05 0	0 0.00 0	647 10.60 51	344 7.16 34	104 2.93 14	5.6 0.09 0	0.7	0.20	40	1239 1177	856 325
32S/13E-27L03M 08/24/62	--	40 5788 --	66 7.3		2160	205 10.23 36	164 13.49 47	109 4.74 17	6 0.15 0	0 0.00 0	714 11.70 41	650 13.53 47	115 3.24 11	0.0 0.00 0	0.2	0.14	26	1854 1627	1187 601
06/17/64	--	40 5050 --	7.6		2177	230 11.48 43	106 8.72 32	152 6.61 24	6 0.15 1	0 0.00 0	681 11.16 42	585 12.18 46	118 3.33 12	3.3 0.05 0	0.7	0.02	--	1694 1536	1010 452
32S/13E-28A01M 08/24/62	--	40 5788 --	66 7.3		2160	205 10.23 36	164 13.49 47	109 4.74 17	6 0.15 0	0 0.00 0	714 11.70 41	650 13.53 47	115 3.24 11	0.0 0.00 0	0.2	0.14	26	1854 1627	1187 601

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
ARROYO GRANDE HYDRO SUBUNIT																				
ARROYO GRANDE HYDRO SUBAREA						T10C1														
32S/13E-28A01M		40	5050	--		2177	230	106	152	6	0	681	585	118	3.3	0.7	0.02	--	1694	1011
06/17/64	--		--	7.6			11.48	8.72	6.61	0.15	0.00	11.16	12.18	3.33	0.05				1536	452
							43	32	24	1	0	42	46	12	0					
32S/13E-28E01M		40	5786	73		1020	105	58	47	2	0	422	177	51	13.6	0.1	0.00	--	692*	501
09/29/54	--		--	7.4			5.24	4.77	2.04	0.05	0.00	6.92	3.68	1.44	0.22				662	155
							43	39	17	0	0	56	30	12	2					
		40	5788	--		1070	112	52	53	2	0	411	176	60	22.0	0.1	0.10	24	660*	494
03/03/61	--		--	7.5			5.59	4.28	2.30	0.05	0.00	6.74	3.66	1.69	0.35				704	157
							46	35	19	0	0	54	29	14	3					
		40	5786	66		1020	105	51	52	2	0	417	167	56	16.0	0.1	0.09	22	692	472
08/23/62	--		--	7.4			5.24	4.19	2.26	0.05	0.00	6.83	3.48	1.58	0.26				677	130
							45	36	19	0	0	56	29	13	2					
		40	5050	66		1041	108	52	49	2	0	390	157	55	25.0	0.4	0.16	--	684	484
06/17/64	--		--	7.7			5.39	4.28	2.13	0.05	0.00	6.39	3.27	1.55	0.40				641	164
							45	36	18	0	0	55	28	13	3					
32S/13E-28E05M		40	5788	--		630	40	28	52	1	0	135	127	40	45.0	0.1	0.00	18	422*	215
03/03/61	--		--	6.8			1.99	2.30	2.26	0.02	0.00	2.21	2.64	1.13	0.72				418	104
							30	35	34	0	0	33	39	17	11					
		40	5050	--		1061	106	53	50	2	0	392	157	56	26.0	0.4	0.20	--	705	483
06/17/64	--		--	7.8			5.29	4.36	2.17	0.05	0.00	6.42	3.27	1.58	0.42				644	161
							44	37	18	0	0	55	28	13	4					
32S/13E-29D01M		40	5786	81		934	97	49	44	3	0	412	144	31	2.5	0.1	0.05	--	583*	444
09/29/54	--		--	7.8			4.84	4.03	1.91	0.08	0.00	6.75	3.00	0.87	0.04				574	106
							45	37	18	1	0	63	28	8	0					
		40	5009	66		787	67	42	44	4	0	343	112	27	0.0	0.0	0.06	16	481	340
03/05/57	--		--	7.4			3.34	3.45	1.91	0.10	0.00	5.62	2.33	0.76	0.00				481	59
							38	39	22	1	0	64	27	9	0					
		40	5788	--		980	108	44	43	3	0	434	149	34	0.0	0.0	0.13	29	642*	451
03/03/61	--		--	7.3			5.39	3.62	1.87	0.08	0.00	7.11	3.10	0.96	0.00				624	95
							49	33	17	1	0	64	28	9	0					
		40	5050	--		971	108	46	42	3	0	421	143	32	6.0	0.3	0.05	--	626	459
06/17/64	--		--	7.6			5.39	3.78	1.83	0.08	0.00	6.90	2.98	0.90	0.10				588	114
							49	34	16	1	0	63	27	8	1					
32S/13E-29D02M		40	5788	70		620	51	19	48	2	0	69	77	63	115.0	0.1	0.25	29	466*	205
05/09/61	--		--	7.4			2.54	1.56	2.09	0.05	0.00	1.13	1.60	1.78	1.85				439	148
							41	25	33	1	0	16	25	28	29					
		40	5788	66		650	48	19	61	2	0	69	62	81	116.0	0.1	0.08	--	478	190
06/17/64	--		--	7.1			2.39	1.56	2.65	0.05	0.00	1.13	1.29	2.28	1.87				424	141
							36	23	40	1	0	17	20	35	28					
32S/13E-29D03M		40	5788	--		480	27	11	46	2	0	50	35	46	95.0	0.0	0.06	29	320*	113
03/03/61	--		--	7.2			1.35	0.90	2	0.05	0.00	0.82	0.73	1.30	1.53				316	72
							31	21	46	1	0	19	17	30	35					
		40	5050	--		575	32	15	51	2	0	46	41	68	95.0	0.2	0.50	--	408	142
06/17/64	--		--	7.6			1.60	1.23	2.22	0.05	0.00	0.75	0.85	1.92	1.53				328	104
							31	24	43	1	0	15	17	38	30					
32S/13E-29E01M		40	5091	--		--	89	42	44	--	0	305	116	35	12.0	0.2	--	--	--	395
03/08/55	--		--	7.4			4.44	3.45	1.91		0.00	5.00	2.41	0.99	0.19				489#	145
							45	35	19		0	58	28	11	2					
		40	5091	--		--	80	34	42	--	0	226	112	42	35.0	0.2	--	--	--	340
02/06/57	--		--	7.3			3.99	2.80	1.83		0.00	3.70	2.33	1.18	0.56				457#	155
							46	32	21		0	48	30	15	7					
		40	5868	--		785	67	29	54	3	0	115	155	62	78.0	0.2	0.02	37	593	286
05/12/60	--		--	7.2			3.34	2.38	2.35	0.08	0.00	1.88	3.23	1.75	1.26				542	192
							41	29	29	1	0	23	40	21	15					
		40	5999	--		763	67	31	50	3	--	141	160	57	5.0	0.2	0.08	35	585*	295
11/11/60	--		--	7.9			3.34	2.55	2.17	0.08		2.31	3.33	1.61	0.08				478#	179
							41	31	27	1		31	45	22	1					
		40	5788	--		865	70	34	53	3	0	122	131	62	144.0	0.2	0.13	27	610*	315
03/03/61	--		--	7.2			3.49	2.80	2.30	0.08	0.00	2.00	2.73	1.75	2.32				585	215
							40	32	27	1	0	23	31	20	26					
		40	5868	--		930	69	33	58	3	0	124	134	72	118.0	0.2	0.10	29	563	308
07/03/64	--		--	7.6			3.44	2.71	2.52	0.08	0.00	2.03	2.79	2.03	1.90				578	206
							39	31	29	1	0	23	32	23	22					
32S/13E-29E02M		40	5091	--		--	76	35	41	--	0	222	105	44	34.0	0.1	--	--	--	334
02/06/57	--		--	7.8			3.79	2.88	1.78		0.00	3.64	2.19	1.24	0.55				445#	152
							45	34	21		0	48	29	16	7					
		40	5868	--		834	71	34	44	3	0	197	121	56	58.0	0.2	0.04	33	589	317
05/12/60	--		--	7.0			3.54	2.80	1.91	0.08	0.00	3.23	2.52	1.56	0.93				518	155
							42	34	23	1	0	39	30	19	11					
		40	5788	--		790	--	--	--	--	0	171	--	91	--	--	--	--	--	332
08/03/60	--		--	8.2							0.00	2.80		2.57					--	192
		40	5788	--		865	--	--	--	--	0	110	--	59	--	--	--	--	--	296
09/08/60	--		--	7.3							0.00	1.80		1.66					--	206
		40	5999	--		786	67	33	48	2	--	209	122	53	0.1	--	0.04	35	658*	303
11/11/60	--		--	6.8			3.34	2.71	2.09	0.05		3.42	2.54	1.49	0.00				463#	132
							41	33	25	1		46	34	20	0					
		40	5868	--		1013	82	37	57	3	0	179	136	82	100.0	0.1	0.20	29	595	357
07/03/64	--		--	7.4			4.09	3.04	2.48	0.08	0.00	2.93	2.83	2.31	1.61				615	210
							42	31	26	1	0	30	29	24	17					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP / PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) / SUM	TH / NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT																			
ARROYO GRANDE HYDRO SUBAREA					T10C1														
32S/13E-29E03M		40	5866	--	888	81	37	42	3	0	210	128	69	50.0	0.2	0.01	33	628	354
05/12/60	--		--	7.1		4.04	3.04	1.83	0.08	0.00	3.44	2.66	1.94	0.81				547	182
						45	34	20	1	0	39	30	22	9					
		40	5999	--	866	74	35	48	3	--	205	136	63	37.0	0.1	0.04	34	598*	329
11/11/60	--		--	7.0		3.69	2.88	2.09	0.08		3.36	2.83	1.78	0.60				531	161
						42	33	24	1		39	33	21	7					
		40	5788	66	900	69	47	58	3	0	191	134	73	107.0	0.1	0.13	--	644	366
06/17/64	--		--	7.6		3.44	3.86	2.52	0.08	0.00	3.13	2.79	2.06	1.72				586	209
						35	39	25	1	0	32	29	21	18					
		40	5868	--	977	82	38	32	3	0	182	133	72	59.0	0.2	0.20	26	566	361
07/03/64	--		--	7.4		4.09	3.12	1.39	0.08	0.00	2.98	2.77	2.03	0.95				535	212
						47	36	16	1	0	34	32	23	11					
32S/13E-29E05M		40	5788	66	755	62	28	56	3	0	97	84	69	156.0	0.2	0.08	--	558	270
06/17/64	--		--	7.1		3.09	2.30	2.43	0.08	0.00	1.59	1.75	1.94	2.52				506	190
						39	29	31	1	0	20	22	25	32					
32S/13E-29E06M		40	5868	77	1042	69	25	96	8	--	196	167	73	70.0	0.4	0.10	19	626	275
03/06/67	--		--	8.6		3.44	2.05	4.26	0.20		3.21	3.48	2.06	1.13				626	114
						34	21	43	2		32	35	21	11					
		40	5866	77	1031	64	22	110	9	--	193	171	74	68.0	0.4	0.10	19	633	250
03/06/67	--		--	8.1		3.19	1.81	4.78	0.23		3.16	3.56	2.09	1.10				633	92
						32	18	48	2		32	36	21	11					
		40	5868	77	1087	35	13	160	10	20	171	171	77	65.0	0.5	0.20	18	646	141
03/06/67	--		--	8.6		1.75	1.07	6.96	0.25	0.67	2.80	3.56	2.17	1.05				654	0
						17	11	69	2	6	27	35	21	10					
32S/13E-29F01M		40	5867	--	1078	101	48	48	--	--	395	127	62	33.0	0.5	0.11	--	814	450
03/24/67	--		--	7.1		5.04	3.95	2.09			6.47	2.64	1.75	0.53				614	92
						45	36	19			57	23	15	5					
		40	5050	--	1050	49	20	65	3	--	240	140	79	8.0	0.5	--	35	760	205
04/18/67	--		--	7.1		2.44	1.64	2.83	0.08		3.93	2.91	2.23	0.13				518*	0
						35	23	40	1		43	32	24	1					
		40	5050	--	--	100	50	69	8	0	235	151	100	86.0	0.1	--	--	765	455
04/25/67	--		--	7.9		4.99	4.11	3.00	0.20	0.00	3.85	3.14	2.82	1.39				680*	263
						40	33	24	2	0	34	28	25	12					
		40	5050	66	1049	88	43	60	3	--	240	145	81	94.5	0.3	0.00	--	684	397
10/24/67	1130		--	7.6		4.39	3.54	2.61	0.08		3.93	3.02	2.28	1.52				633	200
						41	33	25	1		36	28	21	14					
32S/13E-29G01M		40	5009	--	872	90	43	37	3	0	361	131	32	10.0	--	0.01	34	558	462
11/13/50	--		--	7.5		4.49	3.54	1.61	0.06	0.00	5.92	2.73	0.90	0.16				558	106
						46	36	17	1	0	61	28	9	2					
		40	5009	65	945	102	45	38	3	0	383	146	35	8.7	0.2	0.01	25	591	440
03/06/57	--		--	7.4		5.09	3.70	1.65	0.08	0.00	6.28	3.04	0.99	0.14				592	126
						48	35	16	1	0	60	29	9	1					
		40	5050	64	842	80	39	36	2	0	211	150	53	60.0	0.2	0.08	30	601	360
02/18/59	--		--	7.9		3.99	3.21	1.56	0.05	0.00	3.46	3.12	1.49	0.97				554	187
						45	36	18	1	0	38	34	16	11					
		40	5787	66	824	--	--	--	--	0	235	--	56	--	--	--	--	--	364
09/22/59	--		--	8.0						0.00	3.85		1.58					--	171
		40	5788	--	939	99	46	38	2	0	332	153	41	18.0	0.3	0.11	24	651*	436
08/03/60	--		--	7.2		4.94	3.78	1.65	0.05	0.00	5.44	3.18	1.16	0.29				585	164
						47	36	16	0	0	54	32	11	3					
		40	5050	66	903	--	--	--	--	0	371	--	45	--	--	--	--	--	439
10/06/60	--		--	7.8						0.00	6.06		1.27					--	135
		40	5050	64	948	103	49	34	2	0	357	144	43	31.0	0.4	0.02	26	627	459
11/17/61	--		--	7.4		5.14	4.03	1.48	0.05	0.00	5.85	3.00	1.21	0.50				608	166
						48	38	14	0	0	55	28	11	5					
		40	5788	64	810	77	33	41	4	0	176	143	54	60.0	0.4	0.05	24	638	328
08/23/62	--		--	7.4		3.84	2.71	1.78	0.10	0.00	2.88	2.98	1.52	0.97				523	184
						45	32	21	1	0	34	36	18	12					
		40	5788	64	820	79	43	43	2	0	285	132	60	31.0	0.2	0.09	21	480	374
10/16/62	1400		--	7.3		3.94	3.54	1.87	0.05	0.00	4.67	2.75	1.69	0.50				552	140
						42	38	20	0	0	49	29	18	5					
		40	5050	66	937	104	45	42	3	0	361	146	44	28.0	1.1	0.08	34	705	445
09/25/63	1510		--	7.2		5.19	3.70	1.83	0.08	0.00	5.92	3.04	1.24	0.45				625	149
						48	34	17	1	0	56	28	12	4					
		40	5788	--	940	73	46	42	2	0	188	152	37	111.0	0.2	0.12	--	612	371
09/22/64	--		--	7.7		3.64	3.78	1.83	0.05	0.00	3.08	3.16	1.04	1.79				556	217
						39	41	20	0	0	34	35	11	20					
		40	5050	--	869	82	40	42	2	0	261	136	48	44.0	0.4	0.06	37	670	369
10/13/64	--		--	7.6		4.09	3.29	1.83	0.05	0.00	4.28	2.83	1.35	0.71				560	155
						44	35	20	0	0	47	31	15	8					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY SAMPLER	LAB	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUES													
ARROYO GRANDE HYDRO SUBUNIT																				
ARROYO GRANDE HYDRO SUBAREA						T10C1														
32S/13E-29G02M		40	5050		64	984	110	53	33	3	0	415	165	32	3.9	0.2	0.09	31	661	493
02/18/59	--		--		8.1		5.49	4.36	1.43	0.08	0.00	6.80	3.43	0.90	0.06				636	153
							46	38	13	1	0	61	31	8	1					
		40	5050		64	952	102	50	39	2	0	390	146	44	25.5	0.5	0.15	--	642	460
06/17/64	--		--		8.2		5.09	4.11	1.70	0.05	0.00	6.39	3.04	1.24	0.41				601	140
							46	37	15	0	0	58	27	11	4					
		40	5788		--	900	74	59	46	2	0	344	160	46	20.0	0.1	0.55	--	640	427
09/22/64	--		--		7.6		3.69	4.85	2	0.05	0.00	5.64	3.33	1.30	0.32				577	145
							35	46	19	0	0	53	31	12	3					
		40	5050		60	936	99	46	40	2	0	350	148	43	27.0	0.4	0.12	--	610	436
10/07/65	1335		--		7.9		4.94	3.78	1.74	0.05	0.00	5.74	3.08	1.21	0.43				578	149
							47	36	16	0	0	55	29	12	4					
32S/13E-29P01M		40	5009		--	559	66	17	33	2	--	181	98	32	2.6	--	0.02	35	374	235
11/12/52	--		--		7.5		3.29	1.40	1.43	0.05		2.97	2.04	0.90	0.04				375	86
							53	23	23	1		50	34	15	1					
32S/13E-30F01M		40	5788		64	2620	339	22	205	10	124	0	192	596	23.0	0.1	0.12	--	2032	937
05/28/65	--		--		11.4		16.92	1.81	8.92	0.25	4.13	0.00	4.00	16.81	0.37				1512*	730
							61	6	32	1	16	0	16	66	1					
		40	5050		--	2767	201	81	250	6	0	173	381	586	33.0	0.4	0.11	--	1900	835
01/20/66	--		--		8.0		10.03	6.66	10.87	0.15	0.00	2.83	7.93	16.52	0.53				1624	693
							36	24	39	0	0	10	28	59	2					
		40	5050		65	2790	213	87	232	6	0	138	437	541	26.0	--	0.00	--	1960	890
03/10/67	--		--		7.7		10.63	7.15	10.09	0.15	0.00	2.26	9.10	15.26	0.42				1610	777
							38	25	36	0	0	8	34	56	1					
32S/13E-30F02M		40	5788		63	665	75	43	52	3	0	262	140	59	31.0	0.1	0.10	--	552	364
05/28/65	--		--		8.1		3.74	3.54	2.26	0.08	0.00	4.29	2.91	1.66	0.50				532	149
							39	37	23	1	0	46	31	18	5					
		40	5050		66	970	94	38	47	2	0	280	152	68	27.0	0.2	0.08	--	580	391
01/20/66	--		--		7.6		4.69	3.12	2.04	0.05	0.00	4.59	3.16	1.92	0.43				566	161
							47	31	21	0	0	45	31	19	4					
		40	5050		64	997	89	39	51	3	0	281	152	64	26.0	--	0.00	--	650	383
03/10/67	--		--		8.0		4.44	3.21	2.22	0.08	0.00	4.60	3.16	1.80	0.42				563	152
							45	32	22	1	0	46	32	18	4					
		40	5050		65	932	88	40	49	3	0	286	153	58	30.0	0.2	0.05	--	636	384
09/27/67	--		--		7.6		4.39	3.29	2.13	0.08	0.00	4.69	3.18	1.63	0.48				562	149
							44	33	21	1	0	47	32	16	5					
32S/13E-30F03M		40	5788		68	1060	109	54	49	4	0	378	188	73	0.0	0.2	0.15	--	688	494
05/28/65	--		--		8.0		5.44	4.44	2.13	0.10	0.00	6.19	3.91	2.06	0.00				664	184
							45	37	18	1	0	51	32	17	0					
		40	5050		68	1047	109	40	49	4	0	321	182	69	1.0	0.3	0.05	--	642	437
01/19/66	--		--		7.8		5.44	3.29	2.13	0.10	0.00	5.26	3.79	1.94	0.02				613	174
							50	30	19	1	0	48	34	18	0					
		40	5050		70	958	87	37	45	3	0	265	178	48	1.1	--	0.00	--	600	369
04/10/67	--		--		8.2		4.34	3.04	1.96	0.08	0.00	4.34	3.70	1.35	0.02				530	152
							46	32	21	1	0	46	39	14	0					
		40	5050		70	903	76	47	44	3	0	283	181	43	0.0	0.3	0.03	--	613	383
09/26/67	--		--		7.6		3.79	3.86	1.91	0.08	0.00	4.64	3.77	1.21	0.00				534	151
							39	40	20	1	0	48	39	13	0					
32S/13E-30H01M		40	5787		--	648	26	21	60	2	0	27	79	59	104.0	0.4	0.00	30	450	152
02/06/58	--		--		6.3		1.30	1.73	2.61	0.05	0.00	0.44	1.64	1.66	1.68				395	130
							23	30	46	1	0	8	30	31	31					
		40	5050		--	636	34	22	63	1	0	22	93	58	145.0	0.1	0.14	35	425	176
09/29/58	--		--		6.2		1.70	1.81	2.74	0.02	0.00	0.36	1.94	1.63	2.34				463	158
							27	29	44	0	0	6	31	26	37					
		40	5050		64	587	31	18	62	1	0	18	94	53	133.0	0.1	0.02	34	448	152
02/18/59	--		--		6.1		1.55	1.48	2.70	0.02	0.00	0.29	1.96	1.49	2.14				435	137
							27	26	47	0	0	5	33	25	36					
		40	5787		66	714	34	21	62	2	0	12	79	65	163.0	0.0	0.32	26	460	172
09/22/59	--		--		7.0		1.70	1.73	2.70	0.05	0.00	0.20	1.64	1.83	2.63				459	162
							27	28	44	1	0	3	26	29	42					
		40	5050		61	699	--	--	--	--	0	22	--	60	138.0	--	--	--	--	184
02/24/60	--		--		6.3						0.00	0.36		1.69	2.22				--	166
		40	5788		65	725	35	22	62	1	0	16	97	56	155.0	0.1	0.00	26	492*	178
09/20/60	--		--		6.6		1.75	1.81	2.70	0.02	0.00	0.26	2.02	1.63	2.50				464	165
							28	29	43	0	0	4	31	25	39					
		40	5788		65	690	37	25	56	1	0	19	92	61	150.0	0.0	0.28	27	516*	196
03/02/61	--		--		6.5		1.85	2.05	2.43	0.02	0.00	0.31	1.91	1.72	2.42				459	180
							29	32	38	0	0	5	30	27	38					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT																				
ARROYO GRANDE HYDRO SUBAREA						T10C1														
32S/13E-30H02M		40	5787	60		730	47	36	37	2	0	128	64	103	83.0	0.4	0.00	20	568	266
02/06/58	--		--	7.3			2.34	2.96	1.61	0.05	0.00	2.10	1.33	2.90	1.34				466*	161
							34	42	23	1	0	27	17	38	17					
		40	5050	--		690	56	30	43	2	0	98	80	65	124.0	0.2	0.18	30	460	263
09/29/58	--		--	7.4			2.79	2.47	1.87	0.05	0.00	1.61	1.66	1.83	2				479	183
							39	34	26	1	0	23	23	26	28					
		40	5050	--		699	62	29	45	2	0	101	89	69	124.0	0.1	0.03	33	515	274
02/18/59	--		--	7.4			3.09	2.38	1.96	0.05	0.00	1.65	1.85	1.94	2				503	191
							41	32	26	1	0	22	25	26	27					
		40	5787	--		652	47	25	40	2	0	85	55	64	107.0	0.2	0.46	26	440	221
09/22/59	--		--	7.3			2.34	2.05	1.74	0.05	0.00	1.39	1.14	1.80	1.72				409	151
							38	33	28	1	0	23	19	30	28					
		40	5050	62		700	--	--	--	--	0	90	--	59	110.0	--	--	--	--	238
02/20/60	--		--	7.3							0.00	1.47		1.66	1.77				--	164
		40	5788	--		693	45	20	40	2	0	152	54	50	66.0	0.2	0.12	32	452*	195
09/20/60	--		--	7.8			2.24	1.64	1.74	0.05	0.00	2.49	1.12	1.41	1.06				385*	70
							39	29	31	1	0	41	18	23	17					
		40	5788	--		700	51	26	42	2	0	96	65	65	115.0	0.1	0.10	26	462*	234
03/02/61	--		--	7.3			2.54	2.14	1.83	0.05	0.00	1.57	1.35	1.83	1.85				440	155
							39	33	28	1	0	24	20	28	28					
		40	5050	68		664	50	24	41	2	0	113	50	71	94.0	0.2	0.06	34	448	224
11/09/61	--		--	7.4			2.49	1.97	1.78	0.05	0.00	1.85	1.04	2.00	1.52				422	131
							40	31	28	1	0	29	16	31	24					
		40	5788	70		630	53	23	47	2	0	95	62	73	100.0	0.2	0.08	27	474	227
10/10/62	1530		--	7.5			2.64	1.89	2.04	0.05	0.00	1.56	1.29	2.06	1.61				434	149
							40	28	31	1	0	24	20	32	25					
		40	5050	65		734	57	21	54	2	0	102	73	68	118.0	0.3	0.05	37	500	229
09/26/63	1500		--	7.2			2.84	1.73	2.35	0.05	0.00	1.67	1.52	1.92	1.90				481	145
							41	25	34	1	0	24	22	27	27					
		40	5788	66		770	59	28	58	3	0	110	87	73	133.0	0.1	0.05	--	536	262
06/17/64	--		--	7.6			2.94	2.30	2.52	0.08	0.00	1.80	1.81	2.06	2.14				496	172
							37	29	32	1	0	23	23	26	27					
		40	5788	--		690	53	27	58	3	0	94	80	71	127.0	0.1	0.06	--	610	243
10/13/64	--		--	7.9			2.64	2.22	2.52	0.08	0.00	1.54	1.66	2.00	2.05				466	166
							35	30	34	1	0	21	23	28	28					
		40	5050	60		778	52	26	52	2	0	86	81	76	122.0	0.3	0.03	--	463	237
10/07/65	1140		--	7.8			2.59	2.14	2.26	0.05	0.00	1.41	1.69	2.14	1.97				454	166
							37	30	32	1	0	20	23	30	27					
		40	5050	58		810	--	--	--	--	0	85	--	73	83.0	--	--	--	--	--
10/21/66	1300		--	7.9							0.00	1.39		2.06	1.34				--	--
32S/13E-30K01M		56	5050	--		810	53	24	62	2	0	78	83	84	125.0	0.0	0.07	--	594	231
06/10/65	1100		--	7.2			2.64	1.97	2.70	0.05	0.00	1.28	1.73	2.37	2.02				472	167
							36	27	37	1	0	17	23	32	27					
32S/13E-30K04M		40	5091	--		--	76	36	34	--	0	235	100	36	5.8	0.1	--	--	595	338
04/24/51	--		--	7.3			3.79	2.96	1.48		0.00	3.85	2.08	1.01	0.09				404*	145
							46	36	18		0	55	30	14	1					
32S/13E-30K05M		40	5091	--		--	98	44	41	--	0	283	166	37	2.8	0.1	--	--	753	426
04/24/51	--		--	7.4			4.89	3.62	1.78		0.00	4.64	3.46	1.04	0.04				528*	194
							47	35	17		0	50	38	11	0					
		40	5050	69		1005	85	39	56	3	0	175	149	80	108.0	0.2	0.06	--	700	373
06/10/65	1440		--	7.7			4.24	3.21	2.43	0.08	0.00	2.87	3.10	2.26	1.74				607	229
							43	32	24	1	0	29	31	23	17					
32S/13E-30K06M		40	5009	--		872	93	24	48	2	--	296	130	42	24.0	--	0.02	36	545	331
11/13/50	--		--	8.1			4.64	1.97	2.09	0.05		4.85	2.71	1.18	0.39				545	88
							53	22	24	1		53	30	13	4					
		40	5091	--		--	84	39	38	--	0	250	123	39	5.7	0.1	--	--	655	370
04/24/51	--		--	7.4			4.19	3.21	1.65		0.00	4.10	2.56	1.10	0.09				452*	165
							46	35	18		0	52	33	14	1					
		40	5788	--		996	87	41	54	1	0	196	142	100	62.0	0.2	0.13	25	663*	386
08/03/60	830		--	7.6			4.34	3.37	2.35	0.02	0.00	3.21	2.96	2.82	2				609	225
							43	33	23	0	0	32	30	28	10					
		40	5788	--		1140	49	86	79	4	0	217	156	184	67.0	0.2	0.13	27	904	476
10/31/62	1000		--	8.2			2.44	7.07	3.44	0.10	0.00	3.56	3.29	5.19	1.08				761	298
							19	54	26	1	0	27	25	40	8					
		40	5050	74		1235	98	44	82	3	0	215	165	143	85.0	0.3	0.08	--	801	426
10/05/67	--		--	8.0			4.89	3.62	3.57	0.08	0.00	3.52	3.43	4.03	1.37				727	250
							40	30	29	1	0	28	28	33	11					
32S/13E-30K10M		40	5050	--		930	68	32	60	3	0	94	134	83	128.0	0.2	0.05	--	670	301
06/10/65	--		--	7.4			3.39	2.63	2.61	0.08	0.00	1.54	2.79	2.34	2.06				555	224
							39	30	30	1	0	18	32	27	24					
32S/13E-30L01M		40	5050	64		925	96	46	41	1	0	336	138	53	27.0	0.2	0.04	35	605	434
11/09/61	--		--	8.0			4.89	3.78	1.78	0.02	0.00	5.51	2.87	1.49	0.43				605	158
							47	36	17	0	0	53	28	14	4					
		4	5788	65		950	102	45	47	2	0	345	137	69	13.0	0.2	0.07	25	604	440
10/16/62	1015		--	7.2			5.09	3.70	2.04	0.05	0.00	5.65	2.85	1.94	0.21				610	157
							47	34	19	0	0	53	27	18	2					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUES													
ARROYO GRANDE HYDRO SUBAREA																				
ARROYO GRANDE HYDRO SUBAREA						T10C1														
32S/13E-30L01M		40	5050	68		991	94	51	50	3	0	327	132	85	25.0	0.3	0.06	37	730	444
09/26/63	1430		--	7.4			4.69	4.19	2.17	0.08	0.00	5.36	2.75	2.40	0.40				639	176
							42	38	19	1	0	49	25	22	4					
		40	5788	--		1080	96	54	52	2	0	309	144	111	22.0	0.1	0.11	--	814	462
10/13/64	--		--	8.2			4.79	4.44	2.26	0.05	0.00	5.06	3.00	3.13	0.35				634	209
							41	38	20	0	0	44	26	27	3					
32S/13E-30L02M		40	5786	96		761	92	41	40	3	0	353	124	43	20.0	0.1	0.20	--	580*	398
09/29/54	--		--	7.5			4.59	3.37	1.74	0.08	0.00	5.78	2.58	1.21	0.32				537	108
							47	34	18	1	0	58	26	12	3					
		40	5787	--		901	76	40	41	2	0	317	115	51	4.7	0.1	0.30	20	637	354
08/29/57	--		--	7.8			3.79	3.29	1.78	0.05	0.00	5.19	2.39	1.44	0.07				506	94
							42	37	20	1	0	57	26	16	1					
		40	5787	62		855	70	47	39	2	0	311	95	52	22.0	0.0	0.10	31	590	368
02/06/58	--		--	7.2			3.49	3.86	1.70	0.05	0.00	5.10	1.98	1.47	0.35				511	113
							38	42	19	1	0	57	22	16	4					
		40	5050	--		831	--	--	--	--	0	332	--	46	--	--	--	--	--	397
09/29/58	--		--	7.4							0.00	5.44		1.30					--	125
		40	5050	--		741	72	35	45	2	0	217	103	59	67.0	0.1	0.03	38	529	324
02/18/59	--		--	7.4			3.59	2.88	1.96	0.05	0.00	3.56	2.14	1.66	1.08				528	146
							42	34	23	1	0	42	25	20	13					
		40	5787	65		865	85	43	40	1	0	315	115	57	28.0	0.1	0.18	28	645	389
09/22/59	--		--	7.1			4.24	3.54	1.74	0.02	0.00	5.16	2.39	1.61	0.45				553	131
							44	37	18	0	0	54	25	17	5					
		40	5050	65		950	90	44	48	2	0	290	125	85	35.0	0.3	0.12	30	590	406
02/24/60	--		--	7.3			4.49	3.62	2.09	0.05	0.00	4.75	2.60	2.40	0.56				602	168
							44	35	20	0	0	46	25	23	5					
		40	5788	--		945	92	45	42	2	0	350	134	50	22.0	0.0	0.15	13	686*	415
09/20/60	--		--	7.3			4.59	3.70	1.83	0.05	0.00	5.74	2.79	1.41	0.35				573	128
							45	36	18	0	0	56	27	14	3					
		40	5788	--		1530	139	72	60	3	0	281	160	255	16.0	0.0	0.10	25	1064*	644
03/02/61	--		--	7.1			6.94	5.92	2.61	0.08	0.00	4.60	3.33	7.19	0.26				869	413
							45	38	17	0	0	30	22	47	2					
		40	5050	66		1057	102	48	52	2	0	305	140	97	26.0	0.4	0.30	--	658	452
06/17/64	--		--	7.5			5.09	3.95	2.26	0.05	0.00	5.00	2.91	2.73	0.42				618	202
							45	35	20	0	0	45	26	25	4					
		40	5050	61		1156	113	53	46	3	0	298	151	130	24.0	0.3	0.04	--	725	50.
10/07/65	1010		--	8.0			5.64	4.36	2	0.08	0.00	4.88	3.14	3.67	0.39				667	256
							47	36	17	1	0	40	26	30	3					
		40	5050	68		1240	--	--	--	--	0	316	--	134	19.0	--	--	--	--	--
10/21/66	1500		--	8.2							0.00	5.18		3.78	0.31				--	--
		40	5050	64		1246	116	54	56	3	0	291	145	163	29.0	0.3	0.06	--	842	512
10/05/67	--		--	7.8			5.79	4.44	2.43	0.08	0.00	4.77	3.02	4.60	0.47				710	273
							45	35	19	1	0	37	23	36	4					
32S/13E-30N01M		40	5788	65		1100	46	44	102	3	24	224	178	116	8.0	0.6	0.22	--	676	296
06/11/65	--		--	8.6			2.29	3.62	4.44	0.08	0.80	3.67	3.70	3.27	0.13				632#	72
							22	35	42	1	7	32	32	28	1					
		40	5050	68		1112	112	3	93	25	19	0	365	115	3.0	0.5	0.08	--	683	292
01/22/66	--		--	10.3			5.59	0.25	4.04	0.64	0.63	0.00	7.60	3.24	0.05				736#	260
							53	2	38	6	5	0	66	28	0					
		40	5050	62		1150	41	48	94	37	10	92	278	132	1.7	--	0.00	--	696	300
04/13/67	--		--	8.7			2.04	3.95	4.09	0.95	0.33	1.51	5.79	3.72	0.03				687	208
							18	36	37	9	3	13	51	33	0					
		40	5050	64		864	30	38	67	33	0	138	153	100	1.5	0.5	0.12	--	531	232
09/27/67	--		--	8.3			1.50	3.12	2.91	0.84	0.00	2.26	3.18	2.82	0.02				491	119
							18	37	35	10	0	27	38	34	0					
32S/13E-30N02M		40	5788	67		1320	119	90	75	5	0	245	498	55	0.0	0.1	0.15	--	1020	668
06/16/65	--		--	7.9			5.94	7.40	3.26	0.13	0.00	4.01	10.37	1.55	0.00				963	467
							35	44	19	1	0	25	65	10	0					
		40	5050	67		1376	148	63	71	5	0	232	483	54	0.0	0.5	0.12	--	1069	629
01/21/66	--		--	7.5			7.38	5.18	3.09	0.13	0.00	3.80	10.06	1.52	0.00				939	439
							47	33	20	1	0	25	65	10	0					
		40	5050	67		1370	137	64	71	4	0	220	486	50	1.4	--	0.10	--	1050	605
04/13/67	--		--	8.2			6.84	5.26	3.09	0.10	0.00	3.60	10.12	1.41	0.02				922	425
							45	34	20	1	0	24	67	9	0					
		40	5050	67		1353	147	63	68	5	0	242	484	48	0.0	0.5	0.11	--	1048	627
09/27/67	--		--	7.6			7.33	5.18	2.96	0.13	0.00	3.97	10.08	1.35	0.00				935	428
							47	33	19	1	0	26	65	9	0					
32S/13E-30N03M		40	5788	64		1145	97	75	57	3	0	423	231	73	0.0	0.1	0.08	--	804	551
06/11/65	--		--	8.1			4.84	6.17	2.48	0.08	0.00	6.93	4.81	2.06	0.00				745	204
							36	45	18	1	0	50	35	15	0					
		40	5050	65		1226	132	59	54	3	0	410	250	57	1.0	0.5	0.08	--	804	572
01/22/66	--		--	7.5			6.59	4.85	2.35	0.08	0.00	6.72	5.20	1.61	0.02				759	236
							47	35	17	0	0	50	38	12	0					
		40	5050	64		1220	121	43	56	3	0	318	238	62	0.6	--	0.00	--	778	479
04/13/67	--		--	8.1			6.04	3.54	2.43	0.08	0.00	5.21	4.95	1.75	0.01				680	218
							56	29	20	1	0	44	41	15	0					
		40	5050	65		933	65	55	51	3	--	234	246	41	0.0	0.3	0.05	--	661	388
09/27/67	--		--	7.9			3.24	4.52	2.22	0.08		3.83	5.12	1.16	0.00				577	196
							32	45	22	1		38	51	11	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT																				
ARROYO GRANDE HYDRO SUBAREA						T10C1														
32S/13E-30P01M		40	5009	--		796	96	26	37	1	0	330	105	32	15.0	--	0.02	37	512	347
11/12/50	--		--	7.8			4.79	2.14	1.61	0.02	0.00	5.41	2.19	0.90	0.24				512	76
							56	25	19	0	0	62	25	10	3					
03/03/61	--	40	5788	--	7.5	910	94	43	38	2	0	324	110	76	20.0	0.1	0.04	27	574*	412
			--				4.69	3.54	1.65	0.05	0.00	5.31	2.29	2.14	0.32				570	146
							47	36	17	0	0	53	23	21	3					
08/23/62	--	40	5788	--	7.7	950	104	49	40	2	0	321	119	106	13.0	0.2	0.06	25	694	461
			--				5.19	4.03	1.74	0.05	0.00	5.26	2.48	2.99	0.21				617	198
							47	37	16	0	0	48	23	27	2					
10/30/62	1105	40	5788	64	7.5	960	100	47	42	3	0	320	120	99	15.0	0.2	0.14	29	682	443
			--				4.99	3.86	1.83	0.08	0.00	5.24	2.50	2.79	0.24				613	180
							46	36	17	1	0	49	23	26	2					
01/20/66	--	40	5050	--	7.4	1099	106	48	43	2	0	306	134	105	27.0	0.4	0.04	--	653	462
			--				5.29	3.95	1.87	0.05	0.00	5.01	2.79	2.96	0.43				616	211
							47	35	17	0	0	45	25	26	4					
10/04/67	900	40	5050	--	7.4	1099	104	48	49	3	0	294	147	108	35.0	0.4	0.04	--	736	457
			--				5.19	3.95	2.13	0.08	0.00	4.82	3.06	3.04	0.56				639	216
							46	35	19	1	0	42	27	26	5					
32S/13E-30P02M		40	5050	64		1143	88	50	67	2	0	154	209	102	115.0	0.3	0.05	--	765	425
10/06/67	1130		--	7.0			4.39	4.11	2.91	0.05	0.00	2.52	4.35	2.88	1.85				710	299
							38	36	25	0	0	22	37	25	16					
32S/13E-30P03M		40	5050	--		780	94	45	30	2	0	281	139	51	49.0	0.3	0.08	29	603	420
09/28/61	--		--	7.9			4.69	3.70	1.30	0.05	0.00	4.60	2.89	1.44	0.79				578	189
							48	38	13	0	0	47	30	15	8					
32S/13E-30Q02M		40	5050	--		1082	89	43	62	3	0	168	185	91	104.0	0.2	0.05	--	793	399
06/10/65	--		--	7.5			4.44	3.54	2.70	0.08	0.00	2.75	3.85	2.57	1.68				660	261
							41	33	25	1	0	25	35	24	15					
32S/13E-30Q04M		40	5050	--		1018	81	39	65	2	0	137	156	94	118.0	0.2	0.05	--	733	363
06/10/65	740		--	7.4			4.04	3.21	2.83	0.05	0.00	2.24	3.25	2.65	1.90				623	251
							40	32	28	0	0	22	32	26	19					
32S/13E-30R01M		40	5787	61		772	48	32	52	2	0	113	67	78	73.0	0.0	0.00	30	530	252
02/06/58	--		--	7.1			2.39	2.63	2.26	0.05	0.00	1.85	1.39	2.20	1.18				438#	159
							33	36	31	1	0	28	21	33	18					
10/06/58	--	40	5050	65		748	65	30	54	3	--	159	99	74	78.0	0.3	0.00	35	470	286
			--	7.4			3.24	2.47	2.35	0.08		2.61	2.06	2.09	1.26				517	156
							40	30	29	1		32	26	26	16					
02/18/59	--	40	5050	--		680	65	29	44	3	0	186	96	57	62.0	0.2	0.15	33	489	281
			--	7.3			3.24	2.30	1.91	0.08	0.00	3.05	2.00	1.61	1				481	128
							43	31	25	1	0	40	26	21	13					
09/22/59	--	40	5787	66		847	63	30	61	3	0	124	106	78	115.0	0.0	0.42	29	585	281
			--	7.5			3.14	2.47	2.65	0.08	0.00	2.03	2.21	2.20	1.85				547	179
							38	30	32	1	0	24	27	26	22					
02/24/60	--	40	5050	65		892	87	32	46	2	0	159	122	82	98.0	0.3	0.03	32	560	349
			--	7.3			4.34	2.63	2	0.05	0.00	2.61	2.54	2.31	1.58				580	219
							48	29	22	1	0	29	28	26	17					
09/20/60	--	40	5788	--		1005	99	41	38	2	0	227	150	79	62.0	0.1	0.03	21	792*	416
			--	7.7			4.94	3.37	1.65	0.05	0.00	3.72	3.12	2.23	1				604	230
							49	34	16	0	0	37	31	22	10					
03/02/61	--	40	5786	--		900	82	41	39	2	0	155	139	85	109.0	0.2	0.38	28	606*	373
			--	7.4			4.09	3.37	1.70	0.05	0.00	2.54	2.89	2.40	1.76				602	246
							44	37	18	0	0	26	30	25	18					
11/09/61	--	40	5050	59		980	90	41	48	3	0	212	150	73	85.0	0.3	0.07	34	659	393
			--	7.2			4.49	3.37	2.09	0.08	0.00	3.47	3.12	2.06	1.37				629	219
							45	34	21	1	0	35	31	20	14					
08/23/62	--	40	5788	--		740	56	23	56	3	0	80	103	72	94.0	0.4	0.05	28	618	234
			--	7.0			2.79	1.89	2.43	0.08	0.00	1.31	2.14	2.03	1.52				475	168
							39	26	34	1	0	19	31	29	22					
10/10/62	1430	40	5788	66		700	56	21	55	2	0	82	101	71	87.0	0.2	0.05	26	488	226
			--	7.4			2.79	1.73	2.39	0.05	0.00	1.34	2.10	2.00	1.40				460	159
							40	25	34	1	0	20	31	29	20					
09/26/63	1230	40	5050	73		791	57	27	62	3	0	76	114	68	128.0	0.3	0.05	38	565	253
			--	7.2			2.84	2.22	2.70	0.08	0.00	1.24	2.37	1.92	2.06				535	191
							36	28	34	1	0	16	31	25	27					
06/17/64	--	40	5050	--		806	58	26	61	3	0	71	117	70	123.0	0.3	0.28	--	533	252
			--	7.2			2.89	2.14	2.65	0.08	0.00	1.16	2.43	1.97	1.98				494	194
							37	27	34	1	0	15	32	26	26					
10/07/65	1110	40	5050	61		781	51	25	59	3	0	73	123	68	106.0	0.3	0.02	--	474	230
			--	7.8			2.54	2.05	2.57	0.08	0.00	1.20	2.56	1.92	1.71				472	170
							35	28	35	1	0	16	35	26	23					
32S/13E-30R02M		40	5786	--		780	57	25	63	2	0	59	106	67	175.0	0.0	0.04	29	554*	245
03/02/61	--		--	7.1			2.84	2.05	2.74	0.05	0.00	0.97	2.21	1.89	2.82				553	197
							37	27	36	1	0	12	28	24	36					
06/17/64	--	40	5050	--		896	69	30	61	2	0	88	122	76	156.0	0.2	0.40	--	629	296
			--	7.1			3.44	2.47	2.65	0.05	0.00	1.44	2.54	2.14	2.52				560	224
							40	29	31	1	0	17	29	25	29					
10/21/66	--	40	5050	64		904	--	--	--	--	0	63	--	72	131.0	--	--	--	--	--
			--	8.1							0.00	1.03		2.03	2.11				--	--

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
ARROYO GRANDE HYDRO SUBUNIT / ARROYO GRANDE HYDRO SUBAREA							T10C1													
32S/13E-30R11M		40	5788	--		710	55	21	63	2	0	69	121	61	120.0	0.1	0.10	--	580	224
06/17/64	--		--		7.8		2.74	1.73	2.74	0.05	0.00	1.13	2.52	1.72	1.93				478	167
							38	24	38	1	0	15	34	23	26					
32S/13E-31B01M		40	5786	--		1114	107	37	73	4	0	258	183	91	89.9	0.0	0.10	--	795*	419
06/03/53	--		--		7.3		5.34	3.04	3.17	0.10	0.00	4.23	3.81	2.57	1.45				712	207
							46	26	27	1	0	35	32	21	12					
		40	5788	--		1180	107	55	67	3	0	250	210	99	107.0	0.0	0.15	27	872*	493
03/03/61	--		--		7.1		5.34	4.52	2.91	0.08	0.00	4.10	4.37	2.79	1.72				799	288
							41	35	23	1	0	31	34	21	13					
32S/13E-31B02M		56	5788	--		900	89	56	43	2	0	346	154	45	34.0	0.1	0.05	--	640	453
08/13/64	--		--		8.0		4.44	4.60	1.87	0.05	0.00	5.70	3.21	1.27	0.55				595	168
							40	42	17	0	0	53	30	12	5					
32S/13E-31B03M		40	5788	64		1440	126	67	118	3	12	363	286	145	50.0	0.2	0.16	22	942	590
10/30/62	1330		--		8.4		6.29	5.51	5.13	0.08	0.40	5.95	5.95	4.09	0.81				1008	272
							37	32	30	0	2	35	35	24	5					
32S/13E-31B04M		40	5050	--		1214	91	51	82	2	0	219	181	103	117.0	0.3	0.07	--	786	437
06/04/65	--		--		7.4		4.54	4.19	3.57	0.05	0.00	3.59	3.77	2.90	1.89				735	257
							37	34	29	0	0	29	31	24	15					
32S/13E-31B05M		40	5050	--		1140	87	42	80	2	0	178	159	103	121.0	0.3	0.08	--	760	390
06/05/65	--		--		7.4		4.34	3.45	3.48	0.05	0.00	2.92	3.31	2.90	1.95				682	244
							38	30	31	0	0	26	30	26	18					
32S/13E-31B06M		40	5050	--		1185	89	51	76	2	0	208	178	101	115.0	0.3	0.07	--	784	432
06/05/65	--		--		7.6		4.44	4.19	3.30	0.05	0.00	3.41	3.70	2.85	1.85				715	261
							37	35	28	0	0	29	31	24	16					
32S/13E-31B07M		40	5050	--		1081	66	55	70	1	0	162	199	93	81.0	0.3	0.02	--	696	391
06/05/65	--		--		7.4		3.29	4.52	3.04	0.02	0.00	2.65	4.14	2.62	1.31				645	258
							30	41	28	0	0	25	39	24	12					
32S/13E-31B09M		40	5050	--		1162	96	50	76	3	17	195	184	99	113.0	0.3	0.10	--	817	445
07/27/65	--		--		8.4		4.79	4.11	3.30	0.08	0.57	3.20	3.83	2.79	1.82				735	257
							39	33	27	1	5	26	31	23	15					
32S/13E-31B10M		40	5050	--		1193	97	47	78	3	0	215	178	100	120.0	0.3	0.06	--	819	436
06/05/65	--		--		7.5		4.64	3.86	3.39	0.06	0.00	3.52	3.70	2.82	1.93				730	260
							40	32	28	1	0	29	31	23	16					
32S/13E-31B12M		40	5050	--		907	90	42	36	2	0	262	138	49	59.0	0.4	0.02	--	560	397
06/05/65	--		--		8.0		4.49	3.45	1.56	0.05	0.00	4.29	2.87	1.38	0.95				546	182
							47	36	16	0	0	45	30	14	10					
32S/13E-31B13M		40	5050	--		1140	105	52	60	3	0	253	183	96	90.0	0.3	0.08	--	790	476
07/27/65	--		--		8.2		5.24	4.28	2.61	0.08	0.00	4.15	3.81	2.71	1.45				714	268
							43	35	21	1	0	34	31	22	12					
32S/13E-31C01M		40	5788	65		1950	66	62	325	41	0	479	36	523	0.0	0.2	0.35	3	1468	420
10/30/62	1200		--		7.9		3.29	5.10	14.14	1.05	0.00	7.85	0.75	14.75	0.00				1293	27
							14	22	60	4	0	34	3	63	0					
		40	5050	--		4255	82	98	670	40	0	520	336	960	1.0	0.9	0.45	--	2509	608
04/14/65	--		--		7.5		4.09	8.06	29.14	1.02	0.00	8.52	6.99	27.07	0.02				2444	181
							10	19	69	2	0	20	16	63	0					
		40	5050	63		4543	100	108	708	45	0	551	355	1008	3.7	0.8	0.55	--	2592	694
01/22/66	--		--		7.8		4.99	8.88	30.80	1.15	0.00	9.03	7.39	28.42	0.06				2600	242
							11	19	67	2	0	20	16	63	0					
		40	5050	64		4780	100	115	752	47	0	517	410	1101	3.0	0.7	0.55	--	2871	723
10/04/67	--		--		7.9		4.99	9.46	32.71	1.20	0.00	8.47	8.54	31.05	0.05				2784	299
							10	19	68	2	0	18	18	64	0					
32S/13E-31F01M		40	5050	--		1175	76	67	47	3	0	323	227	50	3.7	0.3	0.10	35	676	465
09/28/61	--		--		8.2		3.79	5.51	2.04	0.08	0.00	5.29	4.73	1.41	0.06				668	200
							33	48	18	1	0	46	41	12	0					
		40	5788	61		1190	134	64	47	3	0	483	232	41	0.0	0.2	0.10	29	808	598
11/02/62	1700		--		7.5		6.69	5.26	2.04	0.08	0.00	7.92	4.83	1.16	0.00				788	202
							47	37	14	0	0	57	35	8	0					
		40	5050	--		1050	92	67	46	3	0	378	220	43	1.2	0.3	0.08	32	741	505
07/08/63	--		--		8.1		4.59	5.51	2	0.08	0.00	6.19	4.58	1.21	0.02				691	195
							36	45	16	1	0	52	38	10	0					
		40	5050	--		1163	131	64	46	3	0	454	242	42	0.0	0.4	0.05	--	829	590
07/27/65	--		--		8.1		6.54	5.26	2	0.08	0.00	7.44	5.04	1.18	0.00				792	218
							47	38	14	0	0	54	37	9	0					
		40	5050	60		1082	93	66	47	3	--	346	242	47	1.0	0.4	0.03	--	676	504
07/18/66	1500		--		8.0		4.64	5.43	2.04	0.08		5.67	5.04	1.32	0.02				670	220
							38	44	17	1		47	42	11	0					
		40	5050	64		1187	129	60	48	3	0	444	242	41	0.6	0.4	0.04	--	822	569
10/03/67	1400		--		7.6		6.44	4.93	2.09	0.08	0.00	7.28	5.04	1.16	0.01				743	205
							47	36	15	1	0	54	37	9	0					
32S/13E-31F02M		40	5788	--		1370	128	73	67	4	0	354	394	52	0.0	0.1	0.11	--	1006	620
05/12/65	--		--		8.1		6.39	6.00	2.91	0.10	0.00	5.80	8.20	1.47	0.00				893	330
							41	39	19	1	0	37	53	9	0					
		40	5050	--		1298	138	62	62	4	0	338	364	48	1.0	0.5	0.08	--	952	600
01/21/66	--		--		8.1		6.89	5.10	2.70	0.10	0.00	5.54	7.58	1.35	0.02				846	323
							47	34	18	1	0	38	52	9	0					
		40	5050	66		1330	136	63	62	3	0	347	372	46	1.5	--	0.40	--	958	599
04/13/67	--		--		8.2		6.79	5.18	2.70	0.08	0.00	5.69	7.74	1.30	0.02				855	314
							46	35	18	0	0	38	52	9	0					
		40	5050	69		1283	136	66	60	4	0	354	374	44	0.5	0.4	0.07	--	949	611
09/28/67	--		--		7.8		6.79	5.43	2.61	0.10	0.00	5.80	7.79	1.24	0.01				859	321
							45	36	17	1	0	39	52	8	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY	LAB SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (+105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER									MILLIGRAMS PER LITER				
							MILLIEQUIVALENTS PER LITER													
							PERCENT REACTANCE VALUES													
ARROYO GRANDE HYDRO SUBUNIT																				
ARROYO GRANDE HYDRO SUBAREA						T10C1														
32S/13E-31F03M		40	5788	--		1370	133	78	82	4	0	234	545	57	0.0	0.1	0.12	--	1160	653
05/14/65	--		--	8.[illegible]			6.64	6.41	3.57	0.10	0.00	3.83	11.35	1.61	0.00				1015	441
							40	38	21	1	0	23	68	10	0					
		40	5050	72		1436	158	63	72	4	0	225	521	50	1.0	0.4	0.13	--	1055	654
01/21/66	--		--	7.4			7.88	5.18	3.13	0.10	0.00	3.69	10.85	1.41	0.02				981	469
							48	32	19	1	0	23	68	9	0					
		40	5050	69		1430	102	92	73	4	0	231	481	48	1.5	--	0.10	--	1060	634
04/13/67	--		--	7.9			5.09	7.57	3.17	0.10	0.00	3.79	10.01	1.35	0.02				916	444
							32	47	20	1	0	25	66	9	0					
		40	5050	67		1386	157	62	72	4	0	242	514	48	1.0	0.4	0.12	--	1089	647
09/28/67	--		--	7.5			7.83	5.10	3.13	0.10	0.00	3.97	10.70	1.35	0.02				978	448
							48	31	19	1	0	25	67	8	0					
32S/13E-31F04M		40	5788	--		1000	58	47	94	3	0	329	144	89	0.0	0.1	0.15	--	628	338
05/12/65	--		--	7.7			2.89	3.86	4.09	0.08	0.00	5.39	3.00	2.51	0.00				597	68
							26	35	37	1	0	49	27	23	0					
		40	5050	78		997	76	32	86	4	0	327	126	80	0.0	0.3	0.16	--	548	321
01/21/66	--		--	7.4			3.79	2.63	3.74	0.10	0.00	5.36	2.62	2.26	0.00				566	93
							37	26	36	1	0	52	26	22	0					
		40	5050	75		1010	60	40	90	3	0	330	118	83	1.0	--	0.10	--	570	314
04/13/67	--		--	8.0			2.99	3.29	3.91	0.08	0.00	5.41	2.46	2.34	0.02				558	43
							29	32	38	1	0	53	24	23	0					
		40	5050	--		934	69	35	80	3	0	327	122	75	0.0	0.3	0.13	--	569	316
09/28/67	--		--	7.8			3.44	2.88	3.48	0.08	0.00	5.36	2.54	2.11	0.00				546	48
							35	29	35	1	0	53	25	21	0					
32S/13E-31H01M		40	5788	--		1500	166	88	55	1	0	399	404	74	50.0	0.4	0.10	26	1296*	777
09/26/61	--		--	7.7			8.28	7.24	2.39	0.02	0.00	6.54	8.41	2.09	0.81				1061	450
							46	40	13	0	0	37	47	12	4					
		40	5788	--		1640	108	114	80	3	7	440	334	128	0.0	0.1	0.17	--	1206	739
07/07/64	--		--	8.4			5.39	9.37	3.48	0.08	0.23	7.21	6.95	3.61	0.00				991	366
							29	51	19	0	1	40	39	20	0					
		40	5050	69		1680	198	99	62	2	34	348	460	93	85.0	0.6	0.02	--	1375	902
07/27/65	--		--	8.5			9.88	8.14	2.70	0.05	1.13	5.70	9.58	2.62	1.37				1205	560
							48	39	13	0	5	28	47	13	7					
32S/13E-31H02M		40	5050	66		1465	131	91	60	1	0	259	402	82	99.0	0.4	0.06	--	1135	702
07/27/65	--		--	8.0			6.54	7.48	2.61	0.02	0.00	4.24	8.37	2.31	1.60				994	490
							39	45	16	0	0	26	51	14	10					
32S/13E-31H03M		40	5788	64		1280	133	85	53	1	0	445	281	85	31.0	0.2	0.13	28	1074	682
10/30/62	1430		--	8.2			6.64	6.99	2.30	0.02	0.00	7.29	5.85	2.40	0.50				917	317
							42	44	14	0	0	45	36	15	3					
		40	5050	60		1403	148	74	61	1	0	408	291	89	48.0	0.6	0.12	--	995	675
10/07/65	1215		--	7.7			7.38	6.08	2.65	0.02	0.00	6.69	6.06	2.51	0.77				914	340
							46	38	16	0	0	42	38	16	5					
		40	5050	61		1570	166	88	65	1	--	425	343	99	70.0	0.6	0.09	--	1036	777
07/18/66	1510		--	8.2			8.28	7.24	2.83	0.02		6.96	7.14	2.79	1.13				1042	428
							45	39	15	0		39	40	15	6					
		40	5050	--		1440	--	--	--	--	0	410	--	80	53.0	--	--	--	--	--
10/19/66	1535		--	8.3							0.00	6.72		2.26	0.85				--	--
32S/13E-31H04M		40	5050	69		2180	128	74	159	1	0	320	276	259	89.0	0.4	0.10	32	1210	624
09/26/61	--		--	8.2			6.39	6.08	6.92	0.02	0.00	5.24	5.75	7.30	1.43				1176	361
							33	31	36	0	0	27	29	37	7					
		40	5788	64		1800	126	75	190	1	0	361	307	268	42.0	0.2	0.15	24	1338	623
10/30/62	1400		--	7.3			6.29	6.17	8.26	0.02	0.00	5.92	6.39	7.56	0.68				1211	327
							30	30	40	0	0	29	31	37	3					
32S/13E-31H07M		40	5050	67		1788	194	82	92	4	38	365	368	146	91.0	0.6	0.06	--	1249	822
07/18/66	1400		--	8.5			9.68	6.74	4.00	0.10	1.27	5.98	7.66	4.12	1.47				1196	459
							47	33	19	0	6	29	37	20	7					
		40	5050	69		2097	216	95	116	5	0	495	421	172	142.5	0.6	0.06	--	1562	930
10/05/67	1400		--	7.8			10.78	7.81	5.04	0.13	0.00	8.11	8.76	4.85	2.30				1412	524
							45	33	21	0	0	34	36	20	10					
32S/13E-31J01M		40	5788	--		1170	51	102	50	1	0	397	229	52	12.0	0.1	0.05	--	808	547
07/07/64	--		--	7.9			2.54	8.39	2.17	0.02	0.00	6.51	4.77	1.47	0.19				693	221
							19	64	17	0	0	50	37	11	1					
32S/13E-31J02M		40	5050	64		1750	200	122	59	2	0	464	534	99	65.0	0.4	0.07	30	1419	1001
09/26/61	--		--	7.6			9.98	10.03	2.57	0.05	0.00	7.60	11.12	2.79	1.05				1340	620
							44	44	11	0	0	34	49	12	5					
		40	5788	66		1380	174	75	51	2	6	462	331	68	27.0	0.1	0.05	26	1042	743
07/13/62	--		--	8.8			8.68	6.17	2.22	0.05	0.20	7.57	6.89	1.92	0.43				988	354
							51	36	13	0	1	44	40	11	3					
		40	5788	64		1280	137	91	50	2	0	466	327	62	29.0	0.2	0.13	25	1108	717
10/30/62	1450		--	8.2			6.84	7.48	2.17	0.05	0.00	7.64	6.81	1.75	0.47				953	335
							41	45	13	0	0	46	41	10	3					
		40	5050	--		1110	127	57	43	1	0	394	242	50	11.0	0.4	0.01	25	816	552
07/08/63	--		--	7.7			6.34	4.69	1.87	0.02	0.00	6.46	5.04	1.41	0.18				751	229
							49	36	14	0	0	49	38	11	1					
		40	5050	--		1359	156	75	51	2	12	406	301	59	58.0	0.5	0.04	--	1070	698
07/27/65	--		--	8.3			7.78	6.17	2.22	0.05	0.40	6.69	6.27	1.66	0.93				916	343
							48	38	14	0	2	42	39	10	6					
32S/13E-31J03M		40	5050	5[illegible]		2166	222	135	82	2	--	397	644	131	126.0	0.6	0.08	--	1595	1110
07/18/66	1340		--	7.9			11.08	11.10	3.57	0.05		6.51	13.41	3.69	2.03				1538	764
							43	43	14	0		25	52	14	8					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY SAMPLER	LAB	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCM
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT																				
ARROYO GRANDE HYDRO SUBAREA						T10C1														
32S/13E-31K01M		40	5050	--		2340	186	132	89	9	0	635	494	124	9.3	0.4	0.10	17	1447	1008
09/26/61	--		--	8.1			9.28	10.85	3.87	0.23	0.00	10.41	10.28	3.50	0.15				1373	487
							38	45	16	1	0	43	42	14	1					
32S/13E-32A01M		40	5786	--		868	77	38	39	1	0	243	117	53	63.0	0.2	0.00	--	704*	349
06/11/54	--		--	7.4			3.84	3.12	1.70	0.02	0.00	3.98	2.43	1.49	1.02				508	150
							44	36	19	0	0	45	27	17	11					
		40	5787	--		550	40	22	31	1	0	125	59	43	43.0	0.1	0.65	23	372	191
08/29/57	--		--	7.7			1.99	1.81	1.35	0.02	0.00	2.05	1.23	1.21	0.69				325	88
							38	35	26	0	0	39	24	23	13					
		40	5787	--		351	10	21	22	1	0	70	21	35	33.0	0.7	0.00	28	240	112
02/06/58	--		--	7.5			0.50	1.73	0.96	0.02	0.00	1.15	0.44	0.99	0.53				207	55
							15	54	30	1	0	37	14	32	17					
		40	5050	--		548	--	--	--	--	0	100	--	38	--	--	--	--	--	197
09/29/58	--		--	7.4							0.00	1.64		1.07					--	115
		40	5050	63		649	54	24	42	2	0	95	53	35	167.0	0.1	0.04	29	513	233
02/18/59	--		--	7.3			2.69	1.97	1.83	0.05	0.00	1.56	1.10	0.99	2.69				453	155
							41	30	28	1	0	24	17	16	42					
		40	5787	68		654	50	22	44	2	0	102	124	51	50.0	0.1	0.29	26	451	216
09/22/59	--		--	7.7			2.49	1.81	1.91	0.05	0.00	1.67	2.58	1.44	0.81				420	132
							40	29	30	1	0	26	40	22	12					
		40	5050	67		743	58	27	48	1	0	71	155	51	88.0	0.3	0.00	34	480	256
02/26/60	--		--	7.2			2.89	2.22	2.09	0.02	0.00	1.16	3.23	1.44	1.42				498	198
							40	31	29	0	0	16	44	20	20					
		40	5788	--		842	69	34	44	2	0	163	176	55	48.0	0.0	0.05	12	724*	312
09/20/60	--		--	7.0			3.44	2.80	1.91	0.05	0.00	2.67	3.66	1.55	0.77				521*	178
							42	34	23	1	0	31	42	18	9					
		40	5788	--		750	64	34	42	2	0	69	170	56	92.0	0.0	0.15	29	558*	300
03/02/61	--		--	6.8			3.19	2.80	1.83	0.05	0.00	1.13	3.54	1.58	1.48				524	243
							41	35	23	1	0	15	46	20	19					
		40	5050	67		830	80	34	39	2	0	113	151	57	124.0	0.2	0.01	38	576	340
11/17/61	--		--	7.1			3.99	2.80	1.70	0.05	0.00	1.85	3.14	1.61	2				581	247
							47	33	20	1	0	21	36	19	23					
		40	5788	63		825	69	36	42	2	0	62	--	--	150.0	0.1	0.06	27	551	320
08/23/62	--		--	6.7			3.44	2.96	1.83	0.05	0.00	1.02			2.42				--	269
		40	5788	64		840	72	36	46	1	0	49	158	57	172.0	0.2	0.07	27	560	328
10/16/62	1200		--	6.7			3.59	2.96	2	0.02	0.00	0.80	3.29	1.61	2.77				594	288
							42	34	23	0	0	9	39	19	33					
		40	5050	64		832	71	34	46	2	0	39	180	56	138.0	0.3	0.05	40	590	317
09/26/63	1140		--	7.5			3.54	2.80	2	0.05	0.00	0.64	3.75	1.58	2.22				587	285
							42	33	24	1	0	8	46	19	27					
		40	5050	--		822	70	38	46	2	0	39	185	56	144.0	0.3	0.04	41	560	331
06/04/64	--		--	7.1			3.49	3.12	2	0.05	0.00	0.64	3.85	1.58	2.32				602	299
							40	36	23	1	0	8	46	19	28					
		40	5050	60		935	77	38	50	2	0	53	194	76	128.0	0.2	0.10	--	630	349
10/07/65	1320		--	7.6			3.84	3.12	2.17	0.05	0.00	0.87	4.04	2.14	2.06				592	305
							42	34	24	1	0	9	44	23	23					
32S/13E-32C02M		40	5050	64		555	33	30	36	2	0	209	57	40	0.5	0.2	0.21	--	290	206
06/17/64	--		--	7.9			1.65	2.47	1.56	0.05	0.00	3.42	1.19	1.13	0.01				302	35
							29	43	27	1	0	60	21	20	0					
32S/13E-32C03M		40	5050	--		890	61	31	57	2	--	39	110	104	147.5	0.1	0.12	--	639	280
10/26/67	1045		--	7.5			3.04	2.55	2.48	0.05		0.64	2.29	2.93	2.38				532	248
							37	31	30	1		8	26	36	29					
32S/13E-32D01M		40	5050	70		885	83	38	39	2	0	199	131	59	89.0	0.3	0.04	--	528	364
07/28/65	--		--	7.9			4.14	3.12	1.70	0.05	0.00	3.26	2.73	1.66	1.43				540	201
							46	35	19	1	0	36	30	18	16					
32S/13E-32D02M		40	5786	73		813	87	38	28	2	0	314	111	39	23.6	0.2	0.00	--	494*	374
09/19/54	--		--	7.6			4.34	3.12	1.22	0.05	0.00	5.15	2.31	1.10	0.38				484	116
							50	36	14	1	0	58	26	12	4					
		40	5050	--		823	86	38	30	2	0	281	112	44	35.0	0.4	0.03	36	526	371
12/31/59	--		--	7.7			4.29	3.12	1.30	0.05	0.00	4.60	2.33	1.24	0.56				522	141
							49	36	15	1	0	53	27	14	6					
		40	5050	--		794	89	37	33	2	--	282	104	54	45.0	0.2	0.07	33	575	374
11/10/60	900		--	7.1			4.44	3.04	1.43	0.05		4.62	2.16	1.52	0.72				536	143
							49	34	16	1		51	24	17	8					
		40	5050	73		923	89	42	40	3	--	268	130	51	56.0	0.2	0.09	30	580	395
03/23/62	--		--	7.3			4.44	3.45	1.74	0.08		4.39	2.71	1.44	0.90				574	175
							46	36	18	1		46	29	15	10					
		40	5050	70		885	83	38	39	2	0	199	131	59	89.0	0.3	0.04	--	528	364
07/28/65	--		--	7.9			4.14	3.12	1.70	0.05	0.00	3.26	2.73	1.66	1.43				540	200
							46	35	19	1	0	36	30	18	16					
32S/13E-32D03M		40	5868	--		863	104	36	34	2	0	320	120	41	41.0	0.2	0.11	32	--	408
11/10/60	1100		--	7.1			5.19	2.96	1.48	0.05	0.00	5.24	2.50	1.16	0.66				568	145
							54	31	15	0	0	55	26	12	7					
		40	5868	--		923	100	36	40	3	0	289	129	43	54.0	0.1	0.15	30	--	398
03/23/62	--		--	7.2			4.99	2.96	1.74	0.08	0.00	4.74	2.68	1.21	0.87				578	161
							51	30	18	1	0	50	28	13	9					
		40	5050	--		866	83	38	35	2	0	198	130	53	89.0	0.3	0.06	--	561	364
07/28/65	--		--	8.1			4.14	3.12	1.52	0.05	0.00	3.24	2.71	1.49	1.43				528	202
							47	35	17	1	0	36	30	17	16					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY LAB SAMPLER	TEMP PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
					MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT																		
ARROYO GRANDE HYDRO SUBAREA				T10C)														
32S/13E-32D03M		40 5050	62	951	--	--	--	--	0	297	--	43	32.0	--	--	--	--	--
10/24/66	--	--	8.3						0.00	4.87		1.21	0.52				--	--
32S/13E-32D04M		40 5050	--	823	86	38	30	2	0	281	112	44	35.0	0.4	0.03	36	526	371
12/31/59	--	--	7.7		4.29	3.12	1.30	0.05	0.00	4.60	2.33	1.24	0.56				522	140
					49	36	15	1	0	53	27	14	6					
32S/13E-32D10M		40 5050	--	960	107	52	33	2	--	406	140	42	19.0	0.5	0.00	28	693	481
09/09/59	--	--	7.2		5.34	4.28	1.43	0.05		6.65	2.91	1.18	0.31				624	148
					48	38	13	0		60	26	11	3					
		40 5868	--	1030	121	49	35	2	0	436	169	33	3.5	0.2	0.05	32	691	504
11/10/60	1200	--	6.9		6.04	4.03	1.52	0.05	0.00	7.15	3.52	0.93	0.06				660	146
					52	35	13	0	0	61	30	8	0					
		40 5868	--	1052	120	43	40	3	0	422	171	33	2.0	0.2	0.31	28	644	477
03/23/62	--	--	7.0		5.99	3.54	1.74	0.08	0.00	6.92	3.56	0.93	0.03				648	130
					53	31	15	1	0	60	31	8	0					
		40 5868	--	959	101	49	38	3	0	348	158	42	38.0	0.3	0.10	31	609	454
08/15/62	--	--	7.1		5.04	4.03	1.65	0.08	0.00	5.70	3.29	1.18	0.61				632	168
					47	37	15	1	0	53	30	11	6					
		40 5868	75	863	94	44	34	2	--	302	143	44	40.0	0.3	0.28	31	572	416
04/25/64	--	--	7.7		4.69	3.62	1.48	0.05		4.95	2.98	1.24	0.64				582	168
					48	37	15	0		50	30	13	7					
		40 5788	--	900	89	56	43	2	0	348	154	5	34.0	0.1	0.05	--	640	453
08/13/64	--	--	8.0		4.44	4.60	1.87	0.05	0.00	5.70	3.21	0.14	0.55				555*	167
					40	42	17	0	0	59	33	1	6					
32S/13E-32E02M		40 5050	64	928	57	31	79	2	0	59	142	87	150.0	0.2	0.26	--	618	270
06/17/64	--	--	7.7		2.84	2.55	3.44	0.05	0.00	0.97	2.96	2.45	2.42				578	222
					32	29	39	1	0	11	34	28	27					
32S/13E-32E13M		40 5788	67	940	86	63	35	2	0	405	178	32	0.0	0.1	0.09	30	656	474
02/19/64	1100	--	7.3		4.29	5.18	1.52	0.05	0.00	6.64	3.70	0.90	0.00				626	142
					39	47	14	0	0	59	33	8	0					
32S/13E-32H01M		40 5009	64	1410	160	76	53	2	0	410	311	69	74.0	0.3	0.09	21	--	712
03/05/57	1700	--	8.2		7.98	6.25	2.30	0.05	0.00	6.65	6.47	1.94	1.19				972	369
					48	38	14	0	0	42	39	12	7					
		40 5787	--	1469	150	75	57	2	0	394	299	75	82.5	0.2	0.50	22	1032	684
08/29/57	--	--	7.7		7.48	6.17	2.48	0.05	0.00	6.46	6.22	2.11	1.33				957	361
					46	38	15	0	0	40	39	13	8					
		40 5050	--	1317	158	73	57	2	--	364	280	90	126.0	0.5	0.14	30	975	695
09/29/58	--	--	7.8		7.88	6.00	2.48	0.05		5.96	5.83	2.54	2.03				996	396
					48	37	15	0		36	36	15	12					
		40 5050	--	1315	165	74	48	2	0	403	313	66	110.0	0.3	0.04	31	1043	717
02/18/59	--	--	7.5		8.23	6.08	2.09	0.05	0.00	6.60	6.52	1.86	1.77				1008	386
					50	37	13	0	0	39	39	11	11					
		40 5787	65	1567	171	82	59	2	0	422	346	61	125.0	0.4	0.34	26	1146	764
09/22/59	--	--	7.0		8.53	6.74	2.57	0.05	0.00	6.92	7.20	1.72	2.02				1081	418
					48	38	14	0	0	39	40	10	11					
		40 5788	72	1355	133	63	57	1	0	348	259	73	67.0	0.5	0.05	22	1022*	591
10/06/60	--	--	7.4		6.64	5.18	2.48	0.02	0.00	5.70	5.39	2.06	1.08				947	306
					46	36	17	0	0	40	38	14	8					
		40 5050	64	729	64	28	45	1	0	76	147	57	106.0	0.2	0.02	32	485	275
11/09/61	--	--	8.0		3.19	2.30	1.96	0.02	0.00	1.24	3.06	1.61	1.71				518	213
					43	31	26	0	0	16	40	21	22					
		40 5788	--	1060	106	52	49	2	0	271	--	--	92.0	0.2	0.06	23	808	479
08/23/62	--	--	7.3		5.29	4.28	2.13	0.05	0.00	4.44			1.48				--	257
		40 5788	66	1040	108	47	52	2	0	265	179	66	104.0	0.2	0.11	24	682	463
10/15/62	1500	--	7.4		5.39	3.86	2.26	0.05	0.00	4.34	3.73	1.86	1.68				713	246
					47	33	19	0	0	37	32	16	14					
		40 5050	71	1314	135	66	62	2	0	312	232	99	112.0	0.5	0.08	36	950	609
09/26/63	1120	--	7.3		6.74	5.43	2.70	0.05	0.00	5.11	4.83	2.79	1.81				898	353
					45	36	18	0	0	35	33	19	12					
		40 5050	--	1252	130	66	63	2	0	307	230	85	136.0	0.6	0.08	35	860	596
06/04/64	--	--	7.7		6.49	5.43	2.74	0.05	0.00	5.03	4.79	2.40	2.19				899	344
					44	37	19	0	0	35	33	17	15					
		40 5050	67	828	79	37	43	2	0	200	166	52	42.0	0.5	0.04	--	540	349
10/07/65	1250	--	8.2		3.94	3.04	1.87	0.05	0.00	3.28	3.46	1.47	0.68				520	185
					44	34	21	1	0	37	39	16	8					
32S/13E-32L02M		40 5009	--	1010	116	55	35	2	--	455	151	33	2.9	--	0.01	39	658	516
11/11/50	--	--	7.5		5.79	4.52	1.52	0.05		7.40	3.14	0.93	0.05				658	143
					49	38	13	0		64	27	8	0					
		40 5788	69	1346	56	91	36	2	0	414	192	37	0.0	0.2	0.05	--	724	514
07/07/64	--	--	8.1		2.79	7.48	1.56	0.05	0.00	6.78	4.00	1.04	0.00				618	174
					23	63	13	0	0	57	34	9	0					
32S/13E-32L05M		40 5788	--	880	53	61	40	2	0	232	121	57	80.0	0.2	0.05	--	610	383
07/07/64	--	--	8.0		2.64	5.02	1.74	0.05	0.00	3.80	2.52	1.61	1.29				529	193
					28	53	18	0	0	41	27	17	14					
32S/13E-32L08M		40 5050	--	1007	114	58	33	2	0	444	146	39	1.2	0.3	0.11	--	637	523
06/17/64	--	--	8.0		5.69	4.77	1.43	0.05	0.00	7.28	3.08	1.10	0.02				614	159
					48	40	12	0	0	63	27	10	0					
32S/13E-32L14M		40 5788	--	1120	107	61	76	5	0	423	216	75	21.0	0.2	0.09	30	774	518
02/17/64	1420	--	7.8		5.34	5.02	3.30	0.13	0.00	6.93	4.50	2.11	0.34				800	171
					39	36	24	1	0	50	32	15	2					

STATE WELL NO. / DATE	TIME	COUNTY	LAB	SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
								MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
ARROYO GRANDE HYDRO SUBUNIT																					
ARROYO GRANDE HYDRO SUBAREA							110C1														
32S/13E-32L18M		40	5788	--			1500	154	66	89	4	0	466	288	123	85.0	0.1	0.14	27	1144	738
02/18/64	900		--			8.0		7.68	7.07	3.87	0.10	0.00	7.96	6.00	3.47	1.37				1096	339
								41	38	21	0	0	42	32	18	7					
32S/13E-32M01M		40	5788	--			1200	77	98	46	2	0	446	233	59	22.0	0.1	0.08	--	844	595
07/07/64	--		--			8.1		3.84	8.06	2	0.05	0.00	7.31	4.85	1.66	0.35				757	229
								27	58	14	0	0	51	34	12	2					
32S/13E-32M04M		40	5050		62		1207	138	65	43	2	22	395	231	60	24.0	0.4	0.05	--	773	612
07/18/66	1330		--		8.3			6.89	5.34	1.87	0.05	0.73	6.47	4.81	1.69	0.39				780	251
								49	38	13	0	5	46	34	12	3					
32S/13E-32P01M		40	5788	--			1280	128	162	67	1	0	574	519	89	18.0	0.2	0.12	--	1398	986
07/07/63	--		--		7.7			6.39	13.32	2.91	0.02	0.00	9.41	10.80	2.51	0.29				1267	515
								28	59	13	0	0	41	47	11	1					
32S/13E-33A03M		40	5788	--			2000	212	137	78	2	0	598	545	119	81.0	0.2	0.12	--	1614	1093
06/24/64	--		--		7.9			10.58	11.27	3.39	0.05	0.00	9.80	11.35	3.35	1.31				1469	602
								42	44	13	0	0	38	44	13	5					
32S/13E-33E03M		40	5788	--			1360	138	85	54	2	0	376	300	60	125.0	0.2	0.15	--	1042	695
06/18/64	--		--		8.0			6.89	6.99	2.35	0.05	0.00	6.16	6.25	1.69	2.02				950	387
								42	43	14	0	0	38	39	10	12					
32S/13E-33F01M		40	5050		62		1106	136	68	46	1	--	464	231	35	5.6	0.3	0.12	--	821*	619
10/21/53	--		--		8.4			6.79	5.59	2	0.02		7.60	4.81	0.99	0.09				752*	--
								47	39	14	0		56	36	7	1					
		40	5788		60		1370	90	113	55	3	0	472	288	53	46.0	0.2	0.17	--	934	690
06/19/64	--		--		7.6			4.49	9.29	2.39	0.08	0.00	7.74	6.00	1.49	0.74				881	303
								28	57	15	0	0	48	37	9	5					
32S/13E-33G01M		40	5050		64		1761	226	105	69	3	0	534	498	100	50.0	0.8	0.09	35	1385	997
06/04/64	--		--		7.5			11.28	8.63	3.00	0.08	0.00	8.75	10.37	2.82	0.81				1350	559
								49	38	13	0	0	38	46	12	3					
32S/13E-33K01M		40	5050		64		1931	240	126	74	3	0	588	540	110	71.0	0.8	0.08	37	1599	1118
06/04/64	--		--		7.4			11.98	10.36	3.22	0.08	0.00	9.64	11.24	3.10	1.14				1491	636
								47	40	13	0	0	38	45	12	5					
32S/13E-33K03M		40	5050		64		1867	229	116	74	2	0	567	510	105	62.0	0.9	0.08	34	1524	1049
06/04/64	--		--		7.9			11.43	9.54	3.22	0.05	0.00	9.29	10.62	2.96	2				1412	584
								47	39	13	0	0	39	44	12	4					
32S/13E-33M02M		40	5788		62		1730	208	117	67	2	0	562	481	74	93.0	0.6	0.10	--	1444	1001
06/18/64	--		--		8.1			10.38	9.62	2.91	0.05	0.00	9.21	10.01	2.09	1.50				1319	540
								45	42	13	0	0	40	44	9	7					
		40	5050		59		1914	212	105	61	2	--	423	501	85	138.0	0.8	0.08	--	1411	962
07/18/66	1300		--		8.0			10.58	8.63	2.65	0.05		6.93	10.43	2.40	2.22				1313	615
								48	39	12	0		31	47	11	10					
		40	5050		--		1713	221	108	56	1	--	517	433	89	130.0	0.8	0.06	--	1329	996
06/05/67	1500		--		8.0			11.03	8.88	2.43	0.02		8.47	9.01	2.51	2.10				1294	572
								49	40	11	0		38	41	11	9					
32S/13E-34G01M		40	5788		--		1975	240	120	71	1	0	366	730	144	0.0	0.6	0.14	30	1706	1093
08/23/62	--		--		7.1			11.98	9.87	3.09	0.02	0.00	6.00	15.20	4.06	0.00				1517	793
								48	39	12	0	0	24	60	16	0					
32S/13E-34G02M		40	5788		64		1650	121	77	162	2	0	352	403	167	25.0	0.4	0.18	--	1044	619
06/24/64	--		--		7.4			6.04	6.33	7.05	0.05	0.00	5.77	8.39	4.71	0.40				1131	330
								31	32	36	0	0	30	43	24	2					
32S/14E-07J01M		40	5050		68		1372	112	86	94	3	0	483	263	105	7.2	0.7	0.24	43	976	634
06/04/64	--		--		7.5			5.59	7.07	4.09	0.08	0.00	7.92	5.47	2.96	0.12				952	238
								33	42	24	0	0	48	33	18	1					
32S/14E-07K01M		40	5050		--		1623	145	103	90	8	0	493	403	123	14.0	0.7	0.24	53	1210	786
06/04/64	--		--		7.0			7.23	8.47	3.91	0.20	0.00	8.08	8.39	3.47	0.22				1183	382
								36	43	20	1	0	40	42	17	1					
32S/14E-08N01M		40	5050		--		1783	159	135	82	2	0	511	503	121	9.4	0.7	0.16	52	1407	952
06/04/64	--		--		7.2			7.93	11.10	3.57	0.05	0.00	8.37	10.47	3.41	0.15				1316	533
								35	49	16	0	0	37	47	15	1					
32S/14E-17N02M		40	5788		--		1150	75	79	47	1	0	496	102	60	15.0	0.2	0.23	35	726*	512
03/02/61	--		--		7.2			3.74	6.50	2.04	0.02	0.00	8.13	2.12	1.69	0.24				659	105
								30	53	17	0	0	67	17	14	2					
32S/14E-18F03M		40	5788		--		1525	110	116	105	--	0	695	205	106	50.0	0.2	0.40	30	1084	752
06/04/64	--		--		7.5			5.49	9.54	4.57		0.00	11.39	4.27	2.99	0.81				1065	182
								28	49	23		0	58	22	15	4					
32S/14E-18F04M		40	5788		--		1350	115	83	91	--	0	610	179	85	28.0	0.2	0.22	30	934	629
06/04/64	--		--		7.7			5.74	6.82	3.96		0.00	10.00	3.73	2.40	0.45				912	129
								35	41	24		0	60	22	14	3					
32S/14E-18P01M		40	5788		--		1260	125	68	54	2	0	433	258	57	12.0	0.3	0.20	29	898*	592
03/02/61	--		--		7.5			6.24	5.59	2.35	0.05	0.00	7.10	5.37	1.61	0.19				819	237
								44	39	16	0	0	50	38	11	1					
32S/14E-19A01M		40	5788		64		1020	66	80	59	1	0	451	165	50	8.4	0.2	0.13	32	724	494
06/04/64	--		--		7.6			3.29	6.58	2.57	0.02	0.00	7.39	3.43	1.41	0.13				684	124
								26	53	21	0	0	60	28	11	1					
32S/14E-19D01M		40	5788		--		1225	126	69	58	1	0	453	259	60	12.0	0.2	0.13	30	1064*	598
03/02/61	--		--		7.7			6.29	5.67	2.52	0.02	0.00	7.42	5.39	1.69	0.19				839	226
								43	39	17	0	0	50	37	11	1					
32S/14E-19D03M		40	5788		--		2750	208	163	198	--	0	487	245	642	59.0	0.2	0.22	35	2150	1190
06/04/64	--		--		7.7			10.38	13.40	8.61		0.00	7.98	5.10	18.10	0.95				1790	791
								32	41	27		0	25	16	56	3					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. DATE	TIME	COUNTY	LAB SAMPLEH	TEMP PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
						MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT NIPOMO MESA HYDRO SUBAREA					T16C2														
11N/34W-17N03S		40	5788	66	23	10	5	28	1	0	56	15	34	6.0	0.1	0.03	29	152	46
08/22/62	830		--	8.0		0.50	0.41	1.22	0.02	0.00	0.95	0.31	0.96	0.10				157*	8
						23	19	56	1	0	41	13	41	4					
		40	5788	--	220	13	2	32	1	0	51	7	35	15.0	0.1	0.00	--	168	41
07/17/64	--		--	7.1		0.65	0.16	1.39	0.02	0.00	0.83	0.14	0.99	0.24				131	0
						29	7	62	1	0	38	7	45	11					
11N/34W-18D01S		40	5050	70	221	10	3	29	1	0	41	3	42	6.0	0.1	0.01	52	160	38
08/21/62	935		--	7.0		0.50	0.25	1.26	0.02	0.00	0.67	0.06	1.18	0.10				167	4
						24	12	62	1	0	33	3	59	5					
11N/34W-18H03S		40	5050	--	937	70	35	90	4	0	322	125	89	0.5	0.3	0.08	38	590	319
08/21/62	850		--	7.4		3.49	2.86	3.91	0.10	0.00	5.28	2.60	2.51	0.01				611	55
						34	28	38	1	0	51	25	24	0					
11N/34W-19F01S		40	5050	--	1005	97	43	63	3	0	212	278	62	6.0	0.5	0.10	40	720	419
08/21/62	1000		--	7.5		4.84	3.54	2.74	0.08	0.00	3.47	5.79	1.75	0.10				697	245
						43	32	24	1	0	31	52	16	1					
11N/34W-19Q01S		40	5999	--	1025	100	45	58	3	12	177	291	64	9.0	0.2	0.06	40	743	435
09/00/58	--		--	8.6		4.99	3.70	2.52	0.08	0.40	2.90	6.06	1.80	0.14				710	270
						44	33	22	1	3	26	54	16	1					
		40	5050	--	1025	100	45	58	3	12	177	291	64	8.9	0.2	0.06	40	743	435
09/17/58	--		--	8.6		4.99	3.70	2.52	0.08	0.40	2.90	6.06	1.80	0.14				710	270
						44	33	22	1	3	26	54	16	1					
		40	5999	--	1051	98	45	64	3	0	212	284	66	3.0	0.3	0.81	24	755	430
04/00/59	--		--	8.0		4.89	3.70	2.78	0.08	0.00	3.47	5.91	1.86	0.05				693	256
						43	32	24	1	0	31	52	16	0					
		40	5787	--	1051	98	45	64	3	0	212	284	66	3.0	0.3	0.81	24	755	430
04/21/59	--		--	8.0		4.89	3.70	2.78	0.08	0.00	3.47	5.91	1.86	0.05				693	256
						43	32	24	1	0	31	52	16	0					
		40	5787	--	1085	99	45	64	3	0	214	282	66	6.0	0.3	0.18	32	770	432
09/11/59	--		--	7.6		4.94	3.70	2.78	0.08	0.00	3.51	5.87	1.86	0.10				703	256
						43	32	24	1	0	31	52	16	1					
		40	5787	--	1082	98	47	62	3	0	215	289	68	6.0	0.4	0.12	31	770	438
04/08/60	--		--	8.0		4.89	3.86	2.70	0.08	0.00	3.52	6.02	1.92	0.10				711	262
						42	33	23	1	0	30	52	17	1					
		40	5050	--	925	89	36	56	2	4	194	220	67	6.8	0.5	0.08	25	630	370
10/13/60	1545		--	8.3		4.44	2.96	2.43	0.05	0.13	3.18	4.58	1.89	0.11				602	204
						45	30	25	0	1	32	46	19	1					
		40	5788	--	755	74	26	51	2	0	185	148	65	6.0	0.3	0.14	30	544*	292
10/05/61	--		--	7.6		3.69	2.14	2.22	0.05	0.00	3.03	3.08	1.83	0.10				494	140
						46	26	27	1	0	38	38	23	1					
		40	5788	--	800	--	--	52	--	0	186	--	62	--	--	--	--	--	282
06/14/62	--		--	8.1				2.26		0.00	3.05		1.75					--	129
		40	5788	84	780	72	33	52	3	0	195	176	64	4.0	0.2	0.13	27	584	315
09/20/62	--		--	8.1		3.59	2.71	2.26	0.08	0.00	3.20	3.66	1.80	0.06				528	155
						42	31	26	1	0	37	42	21	1					
11N/34W-20J01S		40	5050	--	1350	94	62	122	3	0	393	232	137	1.0	0.4	0.06	44	900	490
08/22/62	--		--	7.4		4.69	5.10	5.31	0.08	0.00	6.44	4.83	3.86	0.02				889	168
						31	34	35	0	0	42	32	25	0					
11N/34W-28E01S		40	5788	--	590	32	18	49	3	0	68	6	125	27.0	0.1	0.00	39	375	154
07/11/62	--		--	6.9		1.60	1.48	2.13	0.08	0.00	1.11	0.12	3.52	0.43				333	98
						30	28	40	1	0	21	2	68	8					
11N/35W-01N01S		40	5788	--	310	13	5	39	1	0	58	0	61	8.0	0.1	0.05	33	190	53
07/11/62	1300		--	6.9		0.65	0.41	1.70	0.02	0.00	0.95	0.00	1.72	0.13				189	5
						23	15	61	1	0	34	0	61	5					
11N/35W-02G01S		40	5788	--	250	9	4	36	2	0	31	10	51	6.0	0.4	0.00	39	162	39
08/01/62	1440		--	6.7		0.45	0.33	1.56	0.05	0.00	0.51	0.21	1.44	0.10				173*	14
						19	14	65	2	0	23	9	64	4					
11N/35W-03C01S		40	5788	--	250	8	2	35	2	0	34	3	52	6.0	0.1	0.02	33	154	28
08/01/62	1015		--	6.8		0.40	0.16	1.52	0.05	0.00	0.56	0.06	1.47	0.10				158	0
						19	8	71	2	0	25	3	67	4					
11N/35W-04R01S		40	5788	--	275	10	2	38	2	0	51	9	55	3.0	0.4	0.03	25	166	33
08/21/62	1630		--	7.2		0.50	0.16	1.65	0.05	0.00	0.83	0.19	1.55	0.05				170*	0
						21	7	70	2	0	32	7	59	2					
11N/35W-05D06S		40	5050	--	485	3	7	82	1	0	56	9	101	28.0	0.3	0.05	--	264	37
11/01/67	1200		--	7.1		0.15	0.57	3.57	0.02	0.00	0.92	0.19	2.85	0.45				259	0
						3	13	83	1	0	21	4	65	10					
11N/35W-05L01S		40	5788	70	690	64	24	46	3	0	168	148	48	6.0	0.2	0.12	36	570	258
10/19/62	1430		--	7.4		3.19	1.97	2.09	0.08	0.00	2.75	3.08	1.35	0.10				460	120
						44	27	28	1	0	38	42	19	1					
		40	5050	70	704	59	27	52	3	0	166	159	49	5.0	0.3	0.08	48	475	258
09/27/63	1250		--	8.1		2.94	2.22	2.26	0.08	0.00	2.72	3.31	1.38	0.08				484	122
						39	30	30	1	0	36	44	18	1					
		40	5050	69	711	60	28	47	3	0	157	158	53	6.7	0.2	0.03	--	485	265
10/15/64	--		--	7.8		2.99	2.30	2.04	0.08	0.00	2.57	3.29	1.49	0.11				434	136
						40	31	28	1	0	34	44	20	1					
		40	5050	69	700	57	27	50	3	0	151	156	52	6.0	0.3	0.06	--	430	253
10/11/65	830		--	8.0		2.84	2.22	2.17	0.08	0.00	2.47	3.25	1.47	0.10				426	129
						39	30	30	1	0	34	45	20	1					
		40	5050	68	711	--	--	--	--	0	141	--	49	6.6	--	--	--	--	--
10/18/66	900		--	8.2						0.00	2.31		1.38	0.11				--	--

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES								MILLIGRAMS PER LITER					
ARROYO GRANDE HYDRO SUBUNIT																				
NIPOMO MESA HYDRO SUBAREA						T10C2														
11N/35W-05L02S		40	5050	--		363	5	5	56	1	0	40	12	69	12.0	0.2	0.03	--	222	33
11/01/67	1530		--	7.0			0.25	0.41	2.43	0.02	0.00	0.65	0.25	1.94	0.19				180	0
							8	13	78	1	0	21	8	64	6					
11N/35W-05N01S		40	5050	--		315	9	6	42	1	0	37	5	50	48.0	0.2	0.04	42	220	47
11/06/61	--		--	7.1			0.45	0.49	1.83	0.02	0.00	0.61	0.10	1.41	0.77				222	17
							16	18	65	1	0	21	4	49	27					
11N/35W-05N02S		40	5788	--		475	9	7	69	2	0	53	16	86	28.0	0.2	0.10	31	270	52
07/12/62	950		--	6.9			0.45	0.57	3.00	0.05	0.00	0.87	0.33	2.42	0.45				275	8
							11	14	74	1	0	21	8	59	11					
11N/35W-06H01S		40	5788	--		475	9	8	70	4	0	50	22	86	27.0	0.1	0.10	32	302	56
07/12/62	1000		--	6.9			0.45	0.66	3.04	0.10	0.00	0.82	0.46	2.42	0.43				283	15
							11	15	72	2	0	20	11	59	10					
11N/35W-07A01S		42	5999	--		--	122	43	60	--	0	228	355	39	--	--	--	41	--	482
04/05/54	--		--	7.5			6.09	3.54	2.61		0.00	3.74	7.39	1.10					--	295
		40	5050	--		1148	124	50	64	3	0	232	386	41	2.0	0.4	0.14	44	860	515
11/06/61	--		--	7.7			6.19	4.11	2.78	0.08	0.00	3.80	8.04	1.16	0.03				829	325
							47	31	21	1	0	29	62	9	0					
		40	5788	--		1180	110	46	62	4	0	222	360	41	0.0	0.2	0.20	23	808	464
07/12/62	905		--	7.5			5.49	3.78	2.70	0.10	0.00	3.64	7.49	1.16	0.00				756	282
							45	31	22	1	0	30	61	9	0					
11N/35W-07R01S		40	5050	70		1241	138	50	66	3	0	232	421	46	2.3	0.5	0.15	--	986	550
06/18/64	--		--	7.5			6.89	4.11	2.87	0.08	0.00	3.80	8.76	1.30	0.04				841	360
							49	29	21	0	0	27	63	9	0					
		40	5050	70		1178	125	49	70	4	0	178	443	43	2.8	0.4	0.18	--	880	514
10/08/65	1500		--	8.0			6.24	4.03	3.04	0.10	0.00	2.92	9.22	1.21	0.04				825	368
							46	30	23	1	0	22	69	9	0					
11N/35W-08J01S		40	5050	--		275	6	4	39	1	0	37	6	50	20.0	0.1	0.00	--	157	32
11/02/67	1240		--	7.1			0.30	0.33	1.70	0.02	0.00	0.61	0.12	1.41	0.32				145	2
							13	14	72	1	0	25	5	57	13					
11N/35W-09G01S		40	5050	--		626	42	24	45	2	0	139	107	56	4.0	0.2	0.06	--	381	204
10/13/65	1145		--	7.8			2.09	1.97	1.96	0.05	0.00	2.28	2.23	1.58	0.06				349	90
							34	32	32	1	0	37	36	26	1					
11N/35W-09K01S		40	5788	--		300	13	6	38	2	0	62	6	53	6.0	0.2	0.05	37	206	57
07/12/62	--		--	6.9			0.65	0.49	1.65	0.05	0.00	1.02	0.12	1.49	0.10				192	6
							23	17	58	2	0	37	5	55	3					
11N/35W-09P01S		40	5050	--		256	6	5	40	3	--	43	7	50	8.1	0.1	0.07	--	198	36
10/28/53	--		--	7.8			0.30	0.41	1.74	0.08		0.70	0.14	1.41	0.13				141*	1
							12	16	69	3		29	6	59	5					
		40	5787	--		356	4	10	27	2	0	51	0	55	5.0	0.0	0.20	16	204	51
10/02/58	--		--	7.3			0.20	0.82	1.17	0.05	0.00	0.83	0.00	1.55	0.08				145*	9
							9	37	52	2	0	34	0	63	3					
		40	5787	--		286	11	5	34	2	0	43	4	53	8.0	0.0	0.16	36	213	48
07/27/59	--		--	6.6			0.55	0.41	1.48	0.05	0.00	0.70	0.08	1.49	0.13				175	13
							22	16	59	2	0	29	3	62	5					
		40	5788	70		289	12	18	34	2	0	49	7	52	8.0	0.2	0.03	36	220*	104
10/06/60	--		--	7.2			0.60	1.48	1.48	0.05	0.00	0.80	0.14	1.47	0.13				194*	64
							17	41	41	1	0	32	6	58	5					
		40	5050	67		352	26	12	33	2	0	113	3	57	25.0	0.1	0.02	38	237	115
11/17/61	--		--	7.6			1.30	0.99	1.43	0.05	0.00	1.85	0.06	1.61	0.40				252	22
							34	26	38	1	0	47	2	41	10					
		40	5788	--		285	11	5	34	2	0	48	2	52	8.0	0.1	0.00	36	190	48
07/12/62	--		--	6.8			0.55	0.41	1.48	0.05	0.00	0.79	0.04	1.47	0.13				174	9
							22	16	59	2	0	32	2	60	5					
		40	5788	68		265	16	4	35	4	0	58	11	48	7.0	0.2	0.05	30	206	57
10/11/62	1230		--	7.2			0.80	0.33	1.52	0.10	0.00	0.95	0.23	1.35	0.11				184	9
							29	12	55	4	0	36	9	51	4					
		40	5050	70		292	10	7	35	2	0	56	3	52	9.5	0.2	0.02	45	180	54
09/27/63	1045		--	7.3			0.50	0.57	1.52	0.05	0.00	0.92	0.06	1.47	0.15				192	8
							19	22	57	2	0	35	2	56	6					
		40	5788	--		250	14	3	36	2	0	47	15	48	4.4	0.1	0.05	32	179	48
12/06/63	1345		--	7.0			0.70	0.25	1.56	0.05	0.00	0.77	0.31	1.35	0.07				178	9
							27	10	61	2	0	31	12	54	3					
		40	5050	--		289	12	6	33	2	0	48	8	53	12.0	0.0	0.00	--	207	55
10/15/64	--		--	7.2			0.60	0.49	1.43	0.05	0.00	0.79	0.17	1.49	0.19				150	16
							23	19	56	2	0	30	6	57	7					
		40	5050	65		293	12	5	34	2	0	49	11	50	11.0	0.1	0.01	--	206	51
10/11/65	900		--	7.8			0.60	0.41	1.48	0.05	0.00	0.80	0.23	1.41	0.18				150	11
							24	16	58	2	0	31	9	54	7					
		40	5050	67		329	--	--	--	--	0	69	--	47	10.0	--	--	--	--	--
10/18/66	1000		--	7.9							0.00	1.13		1.32	0.16				--	--
11N/35W-10M01S		40	5050	72		270	9	4	39	2	0	51	3	53	5.0	0.1	0.02	44	160	39
08/21/62	1230		--	6.9			0.45	0.33	1.70	0.05	0.00	0.83	0.06	1.49	0.08				185	0
							18	13	67	2	0	34	2	60	3					
		40	5050	--		280	9	4	36	2	0	52	2	51	6.5	0.1	0.00	--	180	39
06/18/64	--		--	7.3			0.45	0.33	1.56	0.05	0.00	0.85	0.04	1.44	0.10				137	0
							19	14	65	2	0	35	2	59	4					
11N/35W-10R01S		40	5050	70		229	7	2	35	2	0	32	4	48	7.0	0.1	0.01	45	150	26
08/22/62	1115		--	7.0			0.35	0.16	1.52	0.05	0.00	0.52	0.08	1.35	0.11				166	0
							17	8	73	2	0	25	4	65	5					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB / SAMPLER	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH MCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT NIPOMO MESA HYDRO SUBAREA						T10C2														
11N/35W-10R01S		40	5050	--		236	7	3	32	1	0	31	5	47	7.5	0.0	0.00	--	168	30
06/18/64	--		--	7.9			0.35	0.25	1.39	0.02	0.00	0.51	0.10	1.32	0.12				118	5
							17	12	69	1	0	25	5	64	6					
11N/35W-11B01S		40	5788	--		243	11	2	30	1	0	44	2	46	3.0	0.1	0.00	39	156	36
08/01/62	1530		--	6.9			0.55	0.16	1.30	0.02	0.00	0.72	0.04	1.30	0.05				156	0
							27	8	64	1	0	34	2	61	2					
		40	5050	72		232	10	4	26	1	0	41	4	45	2.5	0.3	0.00	--	176	42
06/18/64	--		--	7.6			0.50	0.33	1.13	0.02	0.00	0.67	0.08	1.27	0.04				113	8
							25	17	57	1	0	32	4	61	2					
11N/35W-11J01S		40	5788	--		240	9	4	31	1	0	48	4	46	4.0	0.1	0.00	41	164	39
08/01/62	1600		--	6.8			0.45	0.33	1.35	0.02	0.00	0.79	0.08	1.30	0.06				164	0
							21	15	63	1	0	35	4	58	3					
		40	5050	72		254	9	5	30	1	0	37	5	48	6.5	0.1	0.00	--	192	43
06/18/64	--		--	6.8			0.45	0.41	1.30	0.02	0.00	0.61	0.10	1.35	0.10				123	13
							20	19	60	1	0	28	5	62	5					
11N/35W-12E01S		40	5050	68		236	6	7	32	1	--	52	6	44	3.0	0.3	0.00	--	173	44
10/29/53	--		--	7.3			0.30	0.57	1.39	0.02		0.85	0.12	1.24	0.05				125	1
							13	25	61	1		38	5	55	2					
		40	5050	--		246	9	5	30	1	--	50	10	44	2.1	0.3	0.00	40	189	43
09/29/58	--		--	6.7			0.45	0.41	1.30	0.02		0.82	0.21	1.24	0.03				166	2
							20	19	60	1		36	9	54	1					
		40	5787	--		254	--	--	--	--	0	46	--	48	--	--	--	--	--	45
07/27/59	--		--	6.8							0.00	0.75		1.35					--	7
		40	5788	72		256	10	6	27	1	0	49	7	46	1.6	0.2	0.00	39	186*	50
10/06/60	--		--	7.0			0.50	0.49	1.17	0.02	0.00	0.80	0.14	1.30	0.02				162	10
							23	22	54	1	0	35	6	57	1					
		40	5050	65		236	8	6	28	1	0	43	5	46	4.3	0.3	0.01	50	176	45
11/17/61	--		--	7.6			0.40	0.49	1.22	0.02	0.00	0.70	0.10	1.30	0.07				170	10
							19	23	57	1	0	32	5	60	3					
		40	5788	64		313	15	6	35	2	0	63	7	54	1.0	0.1	0.02	38	190	62
07/11/62	--		--	6.8			0.75	0.49	1.52	0.05	0.00	1.03	0.14	1.52	0.02				190	10
							27	17	54	2	0	38	5	56	1					
		40	5050	--		257	11	4	29	1	0	49	4	46	4.2	0.5	0.00	50	158	44
10/10/62	1600		--	7.1			0.55	0.33	1.26	0.02	0.00	0.80	0.08	1.30	0.07				174	4
							25	15	58	1	0	36	4	58	3					
		40	5788	77		339	21	6	39	2	0	73	11	60	3.1	0.2	0.14	38	242	77
09/27/63	1100		--	7.1			1.05	0.49	1.70	0.05	0.00	1.20	0.23	1.69	0.05				217	17
							32	15	52	1	0	38	7	53	2					
		40	5788	--		230	11	4	32	1	0	52	7	44	0.9	0.2	0.03	39	166	44
12/06/63	1400		--	7.1			0.55	0.33	1.39	0.02	0.00	0.85	0.14	1.24	0.01				165	1
							24	14	61	1	0	38	6	55	1					
		40	5050	71		447	27	10	42	2	0	83	17	82	2.0	0.3	0.06	--	295	109
06/18/64	--		--	6.9			1.35	0.82	1.83	0.05	0.00	1.36	0.35	2.31	0.03				224	41
							33	20	45	1	0	33	9	57	1					
		40	5050	71		528	37	13	48	2	0	127	30	84	2.2	0.2	0.05	--	290	146
10/08/65	1440		--	8.2			1.85	1.07	2.09	0.05	0.00	2.08	0.62	2.37	0.03				279	42
							36	21	41	1	0	41	12	46	1					
11N/35W-13C01S		40	5788	--		260	10	6	31	2	0	49	2	42	19.0	0.1	0.02	43	170	50
08/02/62	--		--	6.8			0.50	0.49	1.35	0.05	0.00	0.80	0.04	1.18	0.31				180	10
							21	21	56	2	0	34	2	51	13					
11N/35W-13D01S		40	5788	72		1145	81	47	96	4	0	348	171	111	0.0	0.1	0.10	36	752	396
07/11/62	--		--	7.6			4.04	3.86	4.17	0.10	0.00	5.70	3.56	3.13	0.00				718	111
							33	32	34	1	0	46	29	25	0					
		40	5050	74		1143	77	50	91	3	0	322	174	106	1.5	0.1	0.00	--	724	398
06/18/64	--		--	7.5			3.84	4.11	3.96	0.08	0.00	5.28	3.62	2.99	0.02				661	134
							32	34	33	1	0	44	30	25	0					
11N/35W-14D01S		40	5050	--		1344	138	71	78	3	0	283	461	55	29.0	0.6	0.17	37	1020	637
08/22/62	1050		--	8.1			6.89	5.84	3.39	0.08	0.00	4.64	9.60	1.55	0.47				1012	405
							42	36	21	0	0	28	59	9	3					
		40	5050	--		568	40	19	42	2	0	132	75	56	8.5	0.1	0.05	--	395	178
06/18/64	--		--	7.9			1.99	1.56	1.83	0.05	0.00	2.16	1.56	1.58	0.14				308	70
							37	29	34	1	0	40	29	29	2					
11N/35W-17D01S		40	5050	--		1300	150	56	67	4	0	239	471	45	3.5	0.6	0.16	45	1025	605
11/06/61	--		--	7.6			7.48	4.60	2.91	0.10	0.00	3.92	9.81	1.27	0.06				960	409
							49	30	19	1	0	26	65	8	0					
		40	5788	72		1270	139	57	64	3	0	235	460	45	2.0	0.2	0.20	36	980	582
07/12/62	930		--	7.7			6.94	4.69	2.78	0.08	0.00	3.85	9.58	1.27	0.03				922	389
							48	32	19	0	0	26	65	9	0					
11N/35W-22D01S		40	5050	--		776	88	21	52	3	0	144	240	38	1.0	0.3	0.02	36	545	306
08/21/62	1200		--	7.4			4.39	1.73	2.26	0.08	0.00	2.36	5.00	1.07	0.02				551	188
							52	20	27	1	0	28	59	13	0					
11N/35W-24D01S		40	5050	--		191	4	3	29	1	0	32	2	39	6.5	0.1	0.01	40	130	23
08/21/62	1100		--	7.9			0.20	0.25	1.26	0.02	0.00	0.52	0.04	1.10	0.10				141	0
							11	14	73	1	0	30	2	62	6					
11N/36W-13K02S		40	5050	68		1450	133	43	129	5	0	230	490	59	1.7	--	0.10	--	1090	509
03/08/67	--		--	8.2			6.64	3.54	5.61	0.13	0.00	3.77	10.20	1.66	0.03				974	320
							42	22	35	1	0	24	65	11	0					
		40	5050	64		1169	52	18	180	4	0	376	99	136	0.5	0.4	0.14	--	707	204
10/03/67	--		--	8.3			2.59	1.48	7.83	0.10	0.00	6.16	2.06	3.83	0.01				675	0
							22	12	65	1	0	51	17	32	0					

MINERAL ANALYSES OF GROUND WATER

STATE WELL NO. / DATE	TIME	COUNTY	LAB SAMPLEH	TEMP	PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	F	B	SIO2	TDS 180C (*105C) SUM	TH NCH
							MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER; MILLIEQUIVALENTS PER LITER; PERCENT REACTANCE VALUES									MILLIGRAMS PER LITER				
ARROYO GRANDE HYDRO SUBUNIT																				
NIPOMO MESA HYDRO SUBAREA						T10C2														
11N/36W-13K03S		40	5050		65	1320	63	23	191	6	4	137	438	58	3.5	--	0.10	--	871	252
03/08/67	--		--		8.7		3.14	1.89	8.31	0.15	0.13	2.24	9.12	1.63	0.06				854	133
							23	14	62	1	1	17	69	12	0					
		40	5050		--	898	83	33	70	3	0	287	160	62	0.0	0.3	0.10	--	583	343
10/03/67	--		--		8.3		4.14	2.71	3.04	0.08	0.00	4.70	3.33	1.75	0.00				553	108
							41	27	30	1	0	48	34	18	0					
11N/36W-13K04S		40	5050		64	1000	89	38	68	3	0	226	264	39	2.8	--	0.00	--	688	379
03/08/67	--		--		8.0		4.44	3.12	2.96	0.08	0.00	3.70	5.50	1.10	0.04				615	194
							42	29	28	1	0	36	53	11	0					
		40	5050		--	951	90	38	62	3	0	234	262	36	2.3	0.3	0.07	--	665	381
10/02/67	--		--		8.0		4.49	3.12	2.70	0.08	0.00	3.83	5.45	1.01	0.04				609	189
							43	30	26	1	0	37	53	10	0					
11N/36W-13K05S		40	5050		66	504	48	14	29	3	0	130	39	55	18.7	0.4	0.41	--	338	178
06/09/66	--		--		8.2		2.39	1.15	1.26	0.08	0.00	2.13	0.81	1.55	0.30				272	71
							49	24	26	2	0	44	17	32	6					
		40	5050		63	986	74	25	103	2	10	265	174	64	0.8	--	0.10	--	458	288
03/08/67	--		--		8.5		3.69	2.05	4.48	0.05	0.33	4.34	3.62	1.80	0.01				584	54
							36	20	44	0	3	43	36	18	0					
		40	5050		65	1212	105	33	120	6	0	200	412	45	0.5	0.3	0.09	--	881	398
10/02/67	--		--		8.1		5.24	2.71	5.22	0.15	0.00	3.28	8.58	1.27	0.01				821	234
							39	20	39	1	0	25	65	10	0					
11N/36W-13K06S		40	5050		68	997	94	37	75	5	12	209	284	40	1.0	0.3	0.06	--	718	387
06/09/66	--		--		8.4		4.69	3.04	3.26	0.13	0.40	3.42	5.91	1.13	0.02				652	196
							42	27	29	1	4	31	54	10	0					
		40	5050		67	1500	48	20	246	4	4	349	186	171	1.7	--	0.20	--	917	202
03/08/67	--		--		8.5		2.39	1.64	10.70	0.10	0.13	5.72	3.87	4.82	0.03				853	0
							16	11	72	1	1	39	27	33	0					
		40	5050		68	1248	126	42	95	4	0	210	437	44	0.5	0.4	0.11	--	944	487
10/02/67	--		--		8.0		6.29	3.45	4.13	0.10	0.00	3.44	9.10	1.24	0.01				853	315
							45	25	30	1	0	25	66	9	0					
12N/35W-29R01S		40	5050		--	236	7	3	35	1	0	32	4	25	49.0	0.1	0.02	38	155	30
08/21/62	1400		--		7.0		0.35	0.25	1.52	0.02	0.00	0.52	0.08	0.70	0.79				178	4
							16	11	71	1	0	25	4	33	38					
		40	5788		--	205	8	2	36	1	0	37	4	23	46.0	0.2	0.07	31	174	28
04/14/64	1000		--		6.2		0.40	0.16	1.56	0.02	0.00	0.61	0.08	0.65	0.74				170	0
							18	8	73	1	0	29	4	31	36					
		40	5050		--	240	8	2	34	1	0	28	3	27	52.0	0.1	0.13	--	177	28
06/18/64	--		--		7.4		0.40	0.16	1.48	0.02	0.00	0.46	0.06	0.76	0.84				141	5
							19	8	71	1	0	22	3	36	39					
12N/35W-32F01S		40	5050		--	796	55	31	68	3	0	225	106	81	13.0	0.3	0.08	--	487	265
11/02/67	815		--		7.8		2.74	2.55	2.96	0.08	0.00	3.69	2.21	2.28	0.21				468	80
							33	31	35	1	0	44	26	27	2					
12N/35W-32P01S		40	5788		--	370	13	4	65	2	0	63	11	76	20.0	0.2	0.15	--	210	49
06/19/64	--		--		7.6		0.65	0.33	2.83	0.05	0.00	1.03	0.23	2.14	0.32				223	0
							17	8	73	1	0	28	6	57	9					
12N/35W-33J01S		40	5788		7.0	242	7	5	32	2	0	31	0	47	14.0	0.2	0.00	48	182	38
08/21/62	1450		--		6.6		0.35	0.41	1.39	0.05	0.00	0.51	0.00	1.32	0.22				171#	13
							16	19	63	2	0	25	0	64	11					
		40	5050		--	244	8	5	28	2	0	29	3	46	17.0	0.0	0.04	--	206	41
06/18/64	--		--		7.1		0.40	0.41	1.22	0.05	0.00	0.47	0.06	1.30	0.27				124	17
							19	20	59	2	0	22	3	61	13					
		40	5050		68	229	4	6	28	2	--	24	4	44	17.0	0.1	0.00	--	162	35
10/31/67	1100		--		7.0		0.20	0.49	1.22	0.05		0.39	0.08	1.24	0.27				117	15
							10	25	62	3		20	4	62	14					
12N/35W-33R01S		40	5050		--	293	9	7	36	2	0	50	9	51	14.0	0.1	0.00	--	181	52
11/03/67	1240		--		7.3		0.45	0.57	1.56	0.05	0.00	0.82	0.19	1.44	0.22				153	11
							17	22	59	2	0	31	7	54	8					
12N/35W-34N01S		40	5788		--	368	120	7	44	2	0	36	4	76	20.0	0.1	0.00	37	250	329
08/21/62	1515		--		6.6		5.99	0.57	1.91	0.05	0.00	0.59	0.08	2.14	0.32				328#	299
							70	7	22	1	0	19	3	68	10					

APPENDIX E

MINERAL ANALYSES OF WASTE WATER

DATE TIME	LAB SAMPLER	TEMP	LABORATORY PH	FIELD EC	MINERAL CA	MG	CONSTITUENTS NA	K	IN NH4	MILLIGRAMS PERCENT CO3	MILLIEQUIVALENTS HCO3	PER REACTANCE SO4	CL	LITER LITER VALUE NO3	PO4	MILLIGRAMS F	B	SIO2	PER LITER TDS SUM	TH NCH
									AVILA SANITARY DISTRICT (31S/12E-31)											
10/14/59	5050	--	7.5	1734	62	53	182	16	57.0	0	649	163	185	0.0	--	3.2	0.72	43	975	373
--	5050		--	--	3.09	4.36	7.92	0.41	3.16	0.00	10.64	3.39	5.22	0.00					1084	0
					16	23	42	2	17	0	55	18	27	0						
09/12/60	5050	77	7.2	2430	97	62	323	17	0.5	0	762	60	358	0.0	18.0	0.4	0.78	30	1330	497
--	5050		--	--	4.84	5.10	14.05	0.43	0.03	0.00	12.49	1.25	10.09	0.00	0.57				1342	0
					20	21	57	2	0	0	51	5	41	0	2					
05/22/62	5050	70	6.9	5060	121	134	794	18	58.3	0	796	67	1376	0.0	63.5	0.4	0.56	42	3485	854
--	5050		--	--	6.04	11.02	34.54	0.46	3.23	0.00	13.05	1.39	38.80	0.00	2.00				3067	201
					11	20	62	1	6	0	24	2	70	0	4					
05/18/64	5050	--	7.7	4900	119	114	575	23	14.0	0	611	160	1036	0.0	25.0	2.0	0.55	66	2520	766
--	5050		--	--	5.94	9.37	25.01	0.59	0.78	0.00	10.01	3.33	29.21	0.00	0.79				2435	265
					14	22	60	1	2	0	23	8	67	0	2					
05/20/65	5050	--	7.2	1650	32	41	237	11	40.0	0	266	83	357	0.0	41.0	2.8	0.20	--	994	249
--	5050		--	--	1.60	3.37	10.31	0.28	2.22	0.00	4.36	1.73	10.07	0.00	1.29				976	30
					9	19	58	2	12	0	25	10	58	0	7					
06/15/66	5050	--	7.1	1622	25	31	200	16	50.0	0	423	28	262	8.1	50.0	0.5	0.56	--	806	190
--	5050		--	--	1.25	2.55	8.70	0.41	2.77	0.00	6.93	0.58	7.39	0.13	1.58				880#	0
					8	16	55	3	18	0	42	3	44	1	9					
10/20/66	5050	--	6.5	1493	37	25	170	17	45.0	0	329	80	232	5.0	57.0	0.4	0.88	--	840	195
--	5050		--	--	1.85	2.05	7.39	0.43	2.49	0.00	5.39	1.66	6.54	0.08	1.80				831#	0
					13	14	52	3	17	0	35	11	42	0	12					
02/13/68	5050	--	6.5	1136	28	28	130	12	41.8	0	155	92	232	2.5	26.0	0.6	0.34	--	785	185
--	5050		--	--	1.40	2.30	5.65	0.31	2.32	0.00	2.54	1.91	6.54	0.04	0.82				670	58
					12	19	47	3	19	0	21	16	55	0	7					
									CALIFORNIA MEN'S COLONY, CAMP SAN LUIS OBISPO (30S/11E-12)											
10/13/59	5050	--	8.1	1241	26	98	83	14	0.0	0	439	29	128	98.0	25.0	5.7	0.08	22	905	468
--	5050		--	--	1.30	8.06	3.61	0.36	0.00	0.00	7.19	0.60	3.61	1.58	0.79				745	108
					10	60	27	3	0	0	52	4	26	11	6					
05/10/60	5050	--	8.0	1162	23	75	94	14	6.0	0	386	48	124	53.0	21.2	5.1	0.60	27	815	366
--	5050		--	--	1.15	6.17	4.09	0.36	0.33	0.00	6.33	1.00	3.50	0.85	0.67				601	49
					9	51	34	3	3	0	51	8	28	7	5					
05/23/60	5050	--	8.0	1220	21	80	122	15	0.2	0	413	47	165	30.0	15.0	2.2	0.23	25	866	382
--	5050		--	--	1.05	6.58	5.31	0.38	0.01	0.00	6.77	0.98	4.65	0.48	0.47				726	43
					8	49	40	3	0	0	51	7	35	4	3					
09/13/60	5050	73	8.2	1340	18	84	115	16	0.2	0	571	38	114	0.0	8.6	0.3	0.20	16	766	391
--	5050		--	--	0.90	6.91	5.00	0.41	0.01	0.00	9.36	0.79	3.21	0.00	0.27				692	0
					7	52	38	3	0	0	69	6	24	0	2					
09/12/61	5050	--	7.1	2700	136	91	295	20	38.0	0	464	589	368	0.0	12.0	0.4	0.57	41	1842	714
--	5050		--	--	6.79	7.48	12.83	0.51	2.11	0.00	7.60	12.26	10.38	0.00	0.38				1820	333
					23	25	43	2	7	0	25	40	34	0	1					
05/22/62	5050	--	7.3	1618	36	89	205	15	2.4	0	480	40	299	3.0	24.7	2.2	0.42	23	1164	456
--	5050		--	--	1.80	7.32	8.92	0.38	0.13	0.00	7.87	0.83	8.43	0.05	0.78				976	62
					10	39	48	2	1	0	44	5	47	0	4					
09/18/62	5050	--	8.2	1450	29	74	168	16	0.0	0	412	51	259	20.0	5.1	2.1	0.28	19	994	377
--	5050		--	--	1.45	6.08	7.31	0.41	0.00	0.00	6.75	1.06	7.30	0.32	0.16				847	39
					9	40	48	3	0	0	43	7	47	2	1					
05/21/63	5050	--	7.6	1500	30	75	190	13	0.0	0	419	56	266	20.0	29.0	4.0	--	36	992	384
--	5050		--	--	1.50	6.17	8.26	0.33	0.00	0.00	6.87	1.16	7.50	0.32	0.92				925	40
					9	38	51	2	0	0	41	7	45	2	5					
09/17/63	5050	--	7.9	1600	43	73	197	15	0.0	0	453	48	264	23.0	--	5.0	0.33	29	986	408
--	5050		--	--	2.14	6.00	8.57	0.38	0.00	0.00	7.42	1.00	7.44	0.37					921#	36
					12	35	50	2	0	0	46	6	46	2						
05/20/64	5050	--	7.9	1240	34	66	172	14	2.3	0	365	80	191	7.0	4.0	1.2	0.50	28	888	356
--	5050		--	--	1.70	5.43	7.48	0.36	0.13	0.00	5.98	1.66	5.39	0.11	0.13				780#	57
					11	36	50	2	1	0	45	12	41	1	1					
09/14/64	5050	--	7.6	1420	44	62	180	15	0.0	0	321	102	273	21.0	11.0	4.2	0.34	--	986	365
--	5050		--	--	2.19	5.10	7.83	0.38	0.00	0.00	5.26	2.12	7.70	0.34	0.35				871	102
					14	33	50	2	0	0	33	13	49	2	2					
05/18/65	5050	--	7.8	1320	30	78	160	13	7.2	0	386	60	201	17.0	14.0	6.0	0.40	--	798	396
--	5050		--	--	1.50	6.41	6.96	0.33	0.40	0.00	6.33	1.25	5.67	0.27	0.44				777#	79
					10	41	45	2	3	0	45	9	41	2	3					
09/14/65	5050	--	7.8	1915	106	37	249	13	0.0	0	452	91	344	0.0	2.0	3.0	0.48	--	916	417
--	5050		--	--	5.29	3.04	10.83	0.33	0.00	0.00	7.41	1.89	9.70	0.00	0.06				1068	46
					27	16	56	2	0	0	39	10	51	0	0					
06/14/66	5050	--	7.7	1573	38	92	158	14	2.0	0	422	65	260	22.9	18.0	3.3	0.32	--	970	473
--	5050		--	--	1.90	7.57	6.87	0.36	0.11	0.00	6.92	1.35	7.33	0.37	0.57				881	127
					11	45	41	2	1	0	42	8	44	2	3					
10/19/66	5050	--	7.5	1541	36	76	174	14	3.0	0	466	79	226	18.6	19.0	2.4	0.22	--	875	403
--	5050		--	--	1.80	6.25	7.57	0.36	0.17	0.00	7.64	1.64	6.37	0.30	0.60				878	20
					11	39	47	2	1	0	46	10	38	2	4					
05/06/67	5050	--	7.4	3436	34	96	540	15	3.2	0	464	39	865	32.0	18.0	3.0	0.10	--	1997	480
--	5050		--	--	1.70	7.89	23.49	0.38	0.18	0.00	7.60	0.81	24.39	0.52	0.57				1874	99
					5	23	70	1	0	0	22	2	72	1	2					

MINERAL ANALYSES OF WASTE WATER

DATE TIME	LAB SAMPLER	TEMP	LABORATORY FIELD PH	LABORATORY FIELD EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE: CA	MG	NA	K	NH4	CO3	HCO3	SO4	CL	NO3	PO4	F	B	SIO2	TDS SUM	TH NCH
MIDDEN HILLS MOBILODGE (31S/12E-12)																				
02/08/68	5050	64	7.6	1074	26	110	190	14	0.4	0	449	81	244	155.0	42.0	0.5	0.30	--	1223	518
--	5050		--	--	1.30	9.05	8.26	0.36	0.02	0.00	7.36	1.69	6.88	2.50	1.33				1084	149
					7	48	43	2	0	0	37	8	35	13	7					
MORRO BAY-CAYUCOS SANITARY DISTRICTS (29S/10E-25)																				
05/27/58	5050	--	7.1	2193	78	105	221	13	6.6	0	662	117	333	27.5	1.8	1.4	0.70	10	1431	627
--	5050		--	--	3.89	8.63	9.61	0.33	0.36	0.00	10.85	2.43	9.39	0.44	0.06				1241	84
					17	38	42	1	2	0	47	10	40	2	0					
10/13/59	5050	--	7.6	1977	67	92	191	14	30.0	0	686	95	266	7.0	9.0	0.9	0.42	28	1160	546
--	5050		--	--	3.34	7.57	8.31	0.36	1.66	0.00	11.24	1.98	7.50	0.11	0.28				1138	0
					16	36	39	2	8	0	53	9	35	0	1					
03/21/60	5050	--	7.4	2063	57	96	193	11	38.0	0	639	95	298	7.0	49.0	2.5	0.80	42	1420	537
--	5050		--	--	2.84	7.89	8.39	0.28	2.11	0.00	10.47	1.98	8.40	0.11	1.55				1204	13
					13	37	39	1	10	0	46	9	37	0	7					
09/12/60	5050	--	7.4	2445	78	124	258	16	34.0	0	715	121	464	13.0	11.0	0.4	0.24	33	1540	705
--	5050		--	--	3.89	10.20	11.22	0.41	1.88	0.00	11.72	2.52	13.08	0.21	0.35				1505	119
					14	37	41	1	7	0	42	9	47	1	1					
05/23/61	5050	--	7.8	2040	79	112	201	13	29.0	0	705	145	311	7.1	10.0	1.0	0.43	42	1364	658
--	5050		--	--	3.94	9.21	8.74	0.33	1.61	0.00	11.55	3.02	8.77	0.11	0.31				1298	80
					16	39	37	1	7	0	49	13	37	0	1					
09/11/61	5050	--	8.1	2560	73	122	260	15	30.0	0	685	147	443	1.7	8.0	0.6	0.57	40	1692	684
--	5050		--	--	3.64	10.03	11.31	0.38	1.66	0.00	11.23	3.06	12.49	0.03	0.25				1478	122
					13	37	42	1	6	0	41	11	46	0	1					
05/21/62	5050	--	7.3	2325	62	108	255	18	66.3	0	665	86	418	1.0	61.4	0.7	0.76	30	1685	599
--	5050		--	--	3.09	8.88	11.09	0.46	3.67	0.00	10.90	1.79	11.79	0.02	1.94				1435	54
					11	33	41	2	13	0	41	7	45	0	7					
09/17/62	5050	--	8.1	2000	66	96	200	11	23.0	0	608	113	339	0.0	12.8	1.2	0.61	34	1388	560
--	5050		--	--	3.29	7.89	8.70	0.28	1.27	0.00	9.96	2.35	9.56	0.00	0.40				1196	61
					15	37	41	1	6	0	45	11	43	0	2					
05/21/63	5050	--	8.0	2200	88	97	225	9	31.5	0	662	161	351	0.0	37.0	0.4	0.27	35	1440	619
--	5050		--	--	4.39	7.98	9.79	0.23	1.75	0.00	10.85	3.35	9.90	0.00	1.17				1361	76
					18	33	41	1	7	0	43	13	39	0	5					
09/16/63	5050	--	7.8	2400	194	19	285	14	31.4	0	663	112	410	0.0	42.0	0.4	0.50	40	1416	563
--	5050		--	--	9.68	1.56	12.40	0.36	1.74	0.00	10.87	2.33	11.56	0.00	1.33				1475	19
					38	6	48	1	7	0	42	9	44	0	5					
05/21/64	5050	--	8.0	1850	71	87	220	13	17.0	0	679	106	300	0.0	12.0	1.2	0.46	37	1254	535
--	5050		--	--	3.54	7.15	9.57	0.33	0.94	0.00	11.13	2.21	8.46	0.00	0.38				1199	0
					16	33	44	1	4	0	50	10	38	0	2					
09/14/64	5050	--	8.0	2050	90	82	235	12	34.0	0	676	122	360	2.0	77.0	3.8	0.52	--	1316	562
--	5050		--	--	4.49	6.74	10.22	0.31	1.88	0.00	11.08	2.54	10.15	0.03	2.43				1351#	0
					19	28	43	1	8	0	42	10	39	0	9					
05/18/65	5050	--	7.8	2450	79	93	285	14	39.0	0	683	125	463	3.0	38.0	2.6	0.65	--	1450	500
--	5050		--	--	3.94	7.65	12.40	0.36	2.16	0.00	11.19	2.60	13.06	0.05	1.20				1479#	20
					15	29	47	1	8	0	40	9	46	0	4					
09/13/65	5050	--	8.4	3110	182	28	400	21	4.5	21	611	191	534	2.7	22.0	1.1	0.64	--	1464	570
--	5050		--	--	9.08	2.30	17.40	0.54	0.25	0.70	10.01	3.98	15.06	0.04	0.69				1709	33
					31	8	59	2	1	2	33	13	49	0	2					
06/12/66	5050	--	7.5	2201	65	94	225	14	38.0	0	633	103	352	11.5	33.0	0.6	0.48	--	1210	549
--	5050		--	--	3.24	7.73	9.79	0.36	2.11	0.00	10.37	2.14	9.93	0.18	1.04				1248	30
					14	33	42	1	9	0	44	9	42	1	4					
PISMO BEACH, CITY OF (32S/12E-13)																				
05/07/58	5050	--	7.7	977	60	47	114	4	19.4	0	339	132	128	18.8	27.0	1.1	0.14	32	678	343
--	5050		--	--	2.99	3.86	4.96	0.10	1.07	0.00	5.56	2.75	3.61	0.30	0.85				751	65
					23	30	38	1	8	0	42	21	28	2	6					
10/14/59	5050	--	7.4	1397	78	43	138	13	14.0	0	323	163	185	19.0	35.0	1.0	0.26	29	870	372
--	5050		--	--	3.89	3.54	6.00	0.33	0.78	0.00	5.29	3.39	5.22	0.31	1.10				878#	107
					27	24	41	2	5	0	35	22	34	2	7					
05/10/60	5050	--	7.6	1563	75	45	155	12	25.0	0	325	152	220	24.0	37.5	2.5	0.92	27	991	372
--	5050		--	--	3.74	3.70	6.74	0.31	1.38	0.00	5.33	3.16	6.20	0.39	1.18				936	106
					24	23	42	2	9	0	33	19	38	2	7					
05/23/61	5050	--	7.5	1160	72	46	116	13	20.0	0	345	127	146	23.0	22.0	1.4	0.43	24	670	369
--	5050		--	--	3.59	3.78	5.04	0.33	1.11	0.00	5.65	2.64	4.12	0.37	0.69				781	86
					26	27	36	2	8	0	42	20	30	3	5					
05/22/62	5050	--	7.1	--	98	62	230	15	30.0	0	394	129	390	8.0	47.4	2.6	0.44	23	1405	500
--	5050		--	--	4.89	5.10	10.00	0.38	1.66	0.00	6.46	2.68	11.00	0.13	1.50				1230	177
					22	23	45	2	7	0	30	12	50	1	7					
05/22/63	5050	--	7.2	1800	84	50	225	15	20.3	0	305	198	291	53.0	48.5	0.4	0.55	44	1180	415
--	5050		--	--	4.19	4.11	9.79	0.38	1.12	0.00	5.00	4.12	8.21	0.85	1.53				1180	165
					21	21	50	2	6	0	25	21	42	4	8					
05/17/64	5050	--	7.8	1600	72	61	200	14	11.0	0	233	202	252	18.8	11.0	1.6	0.36	40	1052	431
--	5050		--	--	3.59	5.02	8.70	0.36	0.61	0.00	3.82	4.20	7.11	0.29	0.35				998#	240
					20	27	48	2	3	0	24	27	45	2	2					

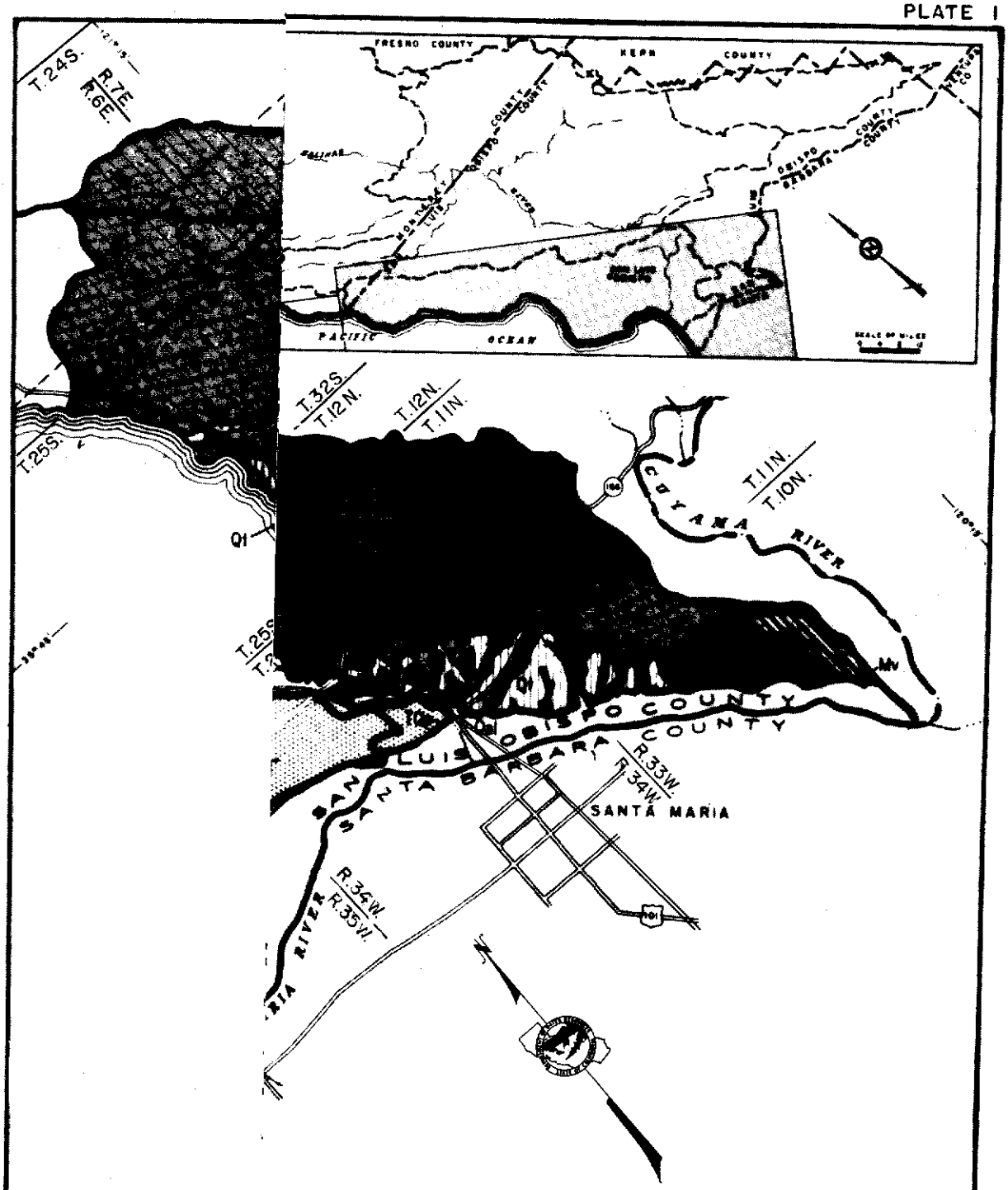
MINERAL ANALYSES OF WASTE WATER

DATE TIME	LAB SAMPLER	TEMP	LABORATORY FIELD PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE: CA	MG	NA	K	NH4	CO3	HCO3	SO4	CL	NO3	PO4	F	B	SIO2	TDS SUM	TH NCH
PISMO BEACH, CITY OF (32S/12E-13)																				
05/19/65	5050	--	7.6	1700	64	68	213	16	35.0	0	370	202	259	30.0	46.0	2.4	0.39	--	1120	449
--	5050		--	--	3.19	5.59	9.26	0.41	1.94	0.00	6.06	4.20	7.30	0.48	1.45				1118	136
					16	27	45	2	9	0	31	21	37	2	7					
09/15/65	5050	--	7.2	1690	104	34	200	21	4.6	0	340	176	282	14.0	33.0	1.4	0.42	--	1008	400
--	5050		--	--	5.19	2.80	8.70	0.54	0.25	0.00	5.57	3.66	7.95	0.22	1.04				1038#	121
					30	16	50	3	1	0	30	20	43	1	6					
06/15/66	5050	--	6.8	1524	77	52	165	13	6.0	0	254	184	215	6.8	37.0	0.6	0.34	--	1055	406
--	5050		--	--	3.84	4.28	7.18	0.33	0.33	0.00	4.16	3.83	6.06	0.11	1.17				882	198
					24	27	45	2	2	0	27	25	39	1	8					
10/10/66	5050	--	6.9	1763	94	53	196	12	15.0	0	370	221	256	47.1	25.0	0.5	0.42	--	1167	453
--	5050		--	--	4.69	4.36	8.52	0.31	0.83	0.00	6.06	4.60	7.22	0.76	0.79				1192	149
					25	23	46	2	4	0	31	24	37	4	4					
06/01/67	5050	--	7.7	1984	93	57	210	16	26.0	0	427	225	294	20.0	30.0	0.6	0.44	--	1179	467
--	5050		--	--	4.64	4.69	9.13	0.41	1.44	0.00	7.00	4.68	8.29	0.32	0.95				1182	117
					23	23	45	2	7	0	33	22	39	1	4					
02/07/68	5050	--	6.6	1987	72	55	198	15	16.6	0	359	196	256	47.7	35.0	0.4	0.48	--	1084	406
--	5050		--	--	3.59	4.52	8.61	0.38	0.92	0.00	5.88	4.08	7.22	0.77	1.10				1069#	112
					20	25	48	2	5	0	31	21	38	4	6					
SHELL BEACH SANITARY DISTRICT (32S/12E-9)																				
05/10/60	5050	71	7.5	1426	64	48	124	16	35.0	0	407	172	153	2.0	53.2	3.6	0.80	32	992	357
--	5050		--	--	3.19	3.95	5.39	0.41	1.94	0.00	6.67	3.58	4.31	0.03	1.68				904#	23
					21	26	36	3	13	0	41	22	26	0	10					
05/22/61	5050	72	7.6	1700	88	67	171	16	41.0	0	443	208	243	3.1	30.0	2.5	0.60	47	1030	495
--	5050		--	--	4.39	5.51	7.44	0.41	2.27	0.00	7.26	4.33	6.85	0.05	0.95				1135	132
					22	27	37	2	11	0	37	22	35	0	5					
05/22/62	5050	70	7.2	1939	64	79	184	17	58.5	0	439	164	305	0.0	68.9	1.6	0.60	39	1370	485
--	5050		--	--	3.19	6.50	8.00	0.43	3.24	0.00	7.19	3.41	8.60	0.00	2.18				1198	125
					15	30	37	2	15	0	34	16	40	0	10					
05/15/64	5050	--	7.2	1600	64	61	205	16	14.0	0	259	202	259	0.0	22.0	2.0	0.60	44	1044	411
--	5050		--	--	3.19	5.02	8.92	0.41	0.78	0.00	4.24	4.20	7.30	0.00	0.69				1017#	198
					17	27	49	2	4	0	26	26	44	0	4					
05/20/65	5050	--	7.7	1600	63	60	200	17	15.0	0	373	194	225	13.0	53.0	3.0	0.94	--	766	404
--	5050		--	--	3.14	4.93	8.70	0.43	0.83	0.00	6.11	4.04	6.34	0.21	1.67				1028	98
					17	27	48	2	5	0	33	22	34	1	9					
06/16/66	5050	--	7.3	1871	72	58	200	15	39.0	0	365	178	272	8.7	46.0	0.6	0.54	--	1080	418
--	5050		--	--	3.59	4.77	8.70	0.38	2.16	0.00	5.98	3.70	7.67	0.14	1.45				1070	119
					18	24	44	2	11	0	32	19	40	1	8					
10/10/66	5050	--	7.3	1954	81	67	208	16	26.0	0	454	221	274	3.7	48.0	0.4	0.42	--	1154	478
--	5050		--	--	4.04	5.51	9.05	0.41	1.44	0.00	7.44	4.60	7.73	0.06	1.52				1169	106
					20	27	44	2	7	0	35	22	36	0	7					
02/15/68	5050	--	6.6	1682	66	57	194	15	19.1	0	295	191	274	72.6	35.0	0.4	0.48	--	1137	399
--	5050		--	--	3.29	4.69	8.44	0.38	1.06	0.00	4.83	3.98	7.73	1.17	1.10				1070#	157
					18	26	47	2	6	0	26	21	41	6	6					
SAN LUIS OBISPO, CITY OF (31S/12E-3)																				
09/18/60	5050	--	7.0	1080	27	38	113	11	17.0	0	228	118	144	5.0	11.0	1.2	0.45	21	668	224
--	5050		--	--	1.35	3.12	4.91	0.28	0.94	0.00	3.74	2.46	4.06	0.08	0.35				619	37
					13	29	46	3	9	0	35	23	38	1	3					
05/22/62	5050	--	6.9	1153	34	30	143	11	50.0	0	313	95	140	1.0	55.3	2.0	0.40	18	840	208
--	5050		--	--	1.70	2.47	6.22	0.28	2.77	0.00	5.13	1.98	3.95	0.02	1.75				734	0
					13	18	46	2	21	0	40	15	31	0	14					
09/15/63	5050	--	7.1	1082	36	33	150	14	1.0	0	112	139	168	99.0	44.0	4.0	0.40	--	768	226
--	5050		--	--	1.80	2.71	6.52	0.36	0.05	0.00	1.83	2.89	4.74	1.60	1.39				744#	134
					16	24	57	3	0	0	15	23	38	13	11					
05/19/64	5050	--	7.8	1100	38	56	140	14	2.7	0	221	215	151	24.0	11.0	1.2	0.48	--	886	325
--	5050		--	--	1.90	4.60	6.09	0.36	0.15	0.00	3.62	4.48	4.26	0.39	0.35				762	144
					14	35	46	3	1	0	28	34	32	3	3					
05/19/65	5050	--	7.3	1140	30	49	150	13	7.7	0	186	115	158	63.0	40.0	3.2	0.31	--	780	277
--	5050		--	--	1.50	4.03	6.52	0.33	0.43	0.00	3.05	2.39	4.45	1.02	1.26				721#	124
					12	31	51	3	3	0	25	20	37	8	10					
09/15/65	5050	--	8.3	1320	32	42	198	20	3.9	10	118	270	219	16.0	28.0	1.0	0.80	--	1128	253
--	5050		--	--	1.60	3.45	8.61	0.51	0.22	0.33	1.93	5.62	6.17	0.26	0.88				899#	139
					11	24	60	3	1	2	13	37	41	2	6					
10/19/66	5050	--	7.1	1121	36	36	132	14	3.0	0	157	108	153	89.3	35.0	1.5	0.36	--	705	238
--	5050		--	--	1.80	2.96	5.74	0.36	0.17	0.00	2.57	2.25	4.31	1.44	1.10				686#	109
					16	27	52	3	1	0	22	19	37	12	9					
06/01/67	5050	66	7.6	1266	47	60	126	11	0.7	0	305	111	164	67.0	24.0	2.0	0.36	--	822	364
--	5050		--	--	2.34	4.93	5.48	0.28	0.04	0.00	5.00	2.31	4.62	1.08	0.76				763#	114
					18	38	42	2	0	0	36	17	34	8	5					
03/26/69	5050	56	7.5	1271	44	60	133	9	2.9	0	300	100	165	62.0	26.0	1.4	0.38	--	770	357
--	5050		--	--	2.19	4.93	5.78	0.23	0.16	0.00	4.92	2.08	4.65	2	0.82				752	111
					16	37	43	2	1	0	36	15	34	7	6					

MINERAL ANALYSES OF WASTE WATER

DATE TIME	LAB SAMPLER	TEMP	LABORATORY FIELD PH	EC	MINERAL CA	MG	CONSTITUENTS NA	K	IN NH4	MILLIGRAMS PERCENT CO3	MILLIEQUIVALENTS PER HCO3	REACTANCE SO4	PER CL	LITER LITER VALUE NO3	PO4	MILLIGRAMS PER LITER F	B	SIO2	TDS SUM	TH MCH
SOUTH SAN LUIS OBISPO COUNTY SANITATION DISTRICT (32S/13E-31)																				
10/30/59*	5050	71	7.3	1201	76	36	117	13	31.0	0	436	164	78	0.0	--	0.7	0.46	--	748	338
--	5050		--	--	3.79	2.96	5.09	0.33	1.72	0.00	7.15	3.41	2.20	0.00					731#	0
					27	21	37	2	12	0	56	27	17	0						
09/11/61*	5050	--	7.8	1500	37	52	184	18	41.0	0	555	216	124	0.0	--	0.8	1.10	--	980	306
--	5050		--	--	1.85	4.28	8.00	0.46	2.27	0.00	9.10	4.50	3.50	0.00					947	0
					11	25	47	3	13	0	53	26	20	0						
09/18/62*	5050	74	7.9	1500	41	54	165	18	28.0	0	531	189	112	0.0	21.0	2.1	1.50	--	930	325
--	5050		--	--	2.04	4.44	7.18	0.46	1.55	0.00	8.70	3.93	3.16	0.00	0.66				893	0
					13	28	46	3	10	0	53	24	19	0	4					
05/23/63*	5050	60	8.0	1950	144	22	210	13	--	0	512	131	310	0.0	--	0.6	--	--	1156	450
--	5050		--	--	7.18	1.81	9.13	0.33		0.00	8.39	2.73	8.74	0.00					--	30
09/19/63*	5050	--	7.5	1850	96	41	205	16	--	0	526	155	255	0.0	34.0	0.4	--	--	866	408
--	5050		--	--	4.79	3.37	8.92	0.41		0.00	8.62	3.23	7.19	0.00	1.07				1061#	0
					27	19	51	2		0	43	16	36	0	5					
09/14/64*	5050	--	7.6	2300	119	34	330	13	53.0	0	635	70	528	0.0	37.0	3.6	0.60	--	1344	437
--	5050		--	--	5.94	2.80	14.35	0.33	2.94	0.00	10.41	1.46	14.89	0.00	1.17				1501#	0
					22	11	54	1	11	0	37	5	53	0	4					
09/28/65*	5050	--	8.7	2290	55	49	267	175	12.2	38	608	179	286	0.0	--	0.1	1.10	--	1284	339
--	5050		--	--	2.74	4.03	11.61	4.48	0.68	1.27	9.96	3.73	8.06	0.00					1362	0
					12	17	49	19	3	5	43	16	35	0						
06/07/67	5050	--	7.3	1724	47	63	175	16	43.0	0	525	183	186	5.0	56.0	0.6	0.60	--	1004	377
--	5050		--	--	2.34	5.18	7.61	0.41	2.38	0.00	8.60	3.81	5.24	0.08	1.77				1034#	0
					13	29	42	2	13	0	44	19	27	0	9					
01/19/68	5050	--	7.6	1448	81	64	194	19	44.0	0	618	166	227	0.6	46.0	0.8	0.16	--	980	466
--	5050		--	--	4.04	5.26	8.44	0.49	2.44	0.00	10.13	3.46	6.40	0.01	1.45				1147	0
					19	25	41	2	12	0	47	16	30	0	7					
SAN SIMEON ACRES COMMUNITY SERVICES DISTRICT (27S/8E-6)																				
09/13/65	5050	--	7.5	1510	92	10	210	15	4.5	0	517	58	173	2.7	26.0	2.1	0.32	--	912	271
--	5050		--	--	4.59	0.82	9.13	0.38	0.25	0.00	8.47	1.21	4.88	0.04	0.82				848	0
					30	5	60	2	2	0	55	8	32	0	5					
01/24/66	5050	--	7.4	1471	50	41	165	16	30.0	0	493	70	202	5.0	33.0	0.2	0.30	--	810	294
--	5050		--	--	2.49	3.37	7.18	0.41	1.66	0.00	8.08	1.46	5.70	0.08	1.04				855#	0
					16	22	47	3	11	0	49	9	35	0	6					
06/06/67	5050	--	7.3	1072	41	46	110	10	0.4	0	320	51	138	42.0	19.0	0.6	0.24	--	646	292
--	5050		--	--	2.04	3.78	4.78	0.25	0.02	0.00	5.24	1.06	3.89	0.68	0.60				616#	29
					19	35	44	2	0	0	46	9	34	6	5					
03/19/69	5050	--	7.1	1436	41	42	172	9	2.2	0	225	64	242	83.0	--	0.4	0.32	--	784	275
--	5050		--	--	2.04	3.45	7.48	0.23	0.12	0.00	3.69	1.33	6.82	1.34					767	91
					15	28	56	2	1	0	28	10	52	10						
U. S. AIR FORCE DEFENDENT HOUSING, CAMBRIA (27S/8E-27)																				
10/25/66	5050	--	7.5	1372	73	82	114	12	--	0	490	150	90	107.0	32.0	0.4	0.30	--	910	520
--	5050		--	--	3.64	6.74	4.96	0.31		0.00	8.03	3.12	2.54	1.72	1.01				902	118
					23	43	32	2		0	49	19	15	10	6					
05/21/68	5050	--	--	--	--	--	--	--	--	--	--	--	115	--	--	--	--	--	--	--
--	5050		--	--									3.24						--	--
08/07/68	5050	--	6.9	--	--	--	--	--	--	--	--	--	100	--	--	--	--	--	--	--
--	5050		--	--									2.82						--	--
03/19/69	5050	62	7.6	1422	21	59	228	8	0.4	0	473	161	100	93.6	--	0.4	0.74	--	937	295
--	5050		--	--	1.05	4.85	9.92	0.20	0.02	0.00	7.75	3.35	2.82	1.51					905	0
					6	30	62	1	0	0	50	22	18	10						
SAN LUIS OBISPO BAY PROPERTIES, INC. (31S/11E-12)																				
03/17/69	5050	58	7.9	1229	82	65	93	12	3.1	0	486	134	90	35.3	18.0	0.5	0.13	--	778	472
--	5050		--	--	4.09	5.34	4.06	0.31	0.17	0.00	7.96	2.78	2.54	0.57	0.64				776	
					29	38	29	3	1	0	55	20	17	4	4					

* Sample from defunct Arroyo Grande sewage treatment plant (32S/12E-29F)



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT

WATER QUALITY CONDITIONS
COASTAL REGION SAN LUIS OBISPO COUNTY

AREAL GEOLOGY

1954

SCALE OF MILES
0 1 2 3

1969

ATER SAMPLING SITES*

	SAMPLING POINT
RO	25S/6E-16A
CRUZ	25S/6E-34Q
	27S/8E-9N
	27S/8E-21R
	27S/8E-26B
	28S/9E-26M
	28S/10E-32A
	28S/10E-26J
	29S/11E-6L
	29S/10E-25F
)	29S/11E-23M
	29S/11E-34P
	29S/11E-31R
	30S/11E-20B
PO	31S/12E-33E
	31S/12E-29P
	32S/12E-13K
	31S/14E-16H
DE	32S/13E-21R

AMPLES COLLECTED FOR
MONITORING YEARLY BY
OUNTY FLOOD CONTROL AND
TION DISTRICT

GAGING STATIONS

1. ARROYO DE LA CRUZ NEAR SAN SIMEON
2. SANTA ROSA CREEK NEAR CAMBRIA
3. SANTA ROSA CREEK AT CAMBRIA
4. CHORRO CREEK ABOVE RESERVOIR (RUNOFF INFERRED FROM DAM STORAGE)
5. SAN BERNARDO CREEK
6. LOPEZ CREEK AT NIELSEN'S RANCH
7. ARROYO GRANDE CREEK ABOVE PHOENIX CREEK
8. ARROYO GRANDE CREEK NEAR ARROYO GRANDE
9. ARROYO GRANDE CREEK BELOW SANTA MANUELA SCHOOL
10. ARROYO GRANDE AT ARROYO GRANDE

SELECTED CLIMATOLOGICAL STATIONS

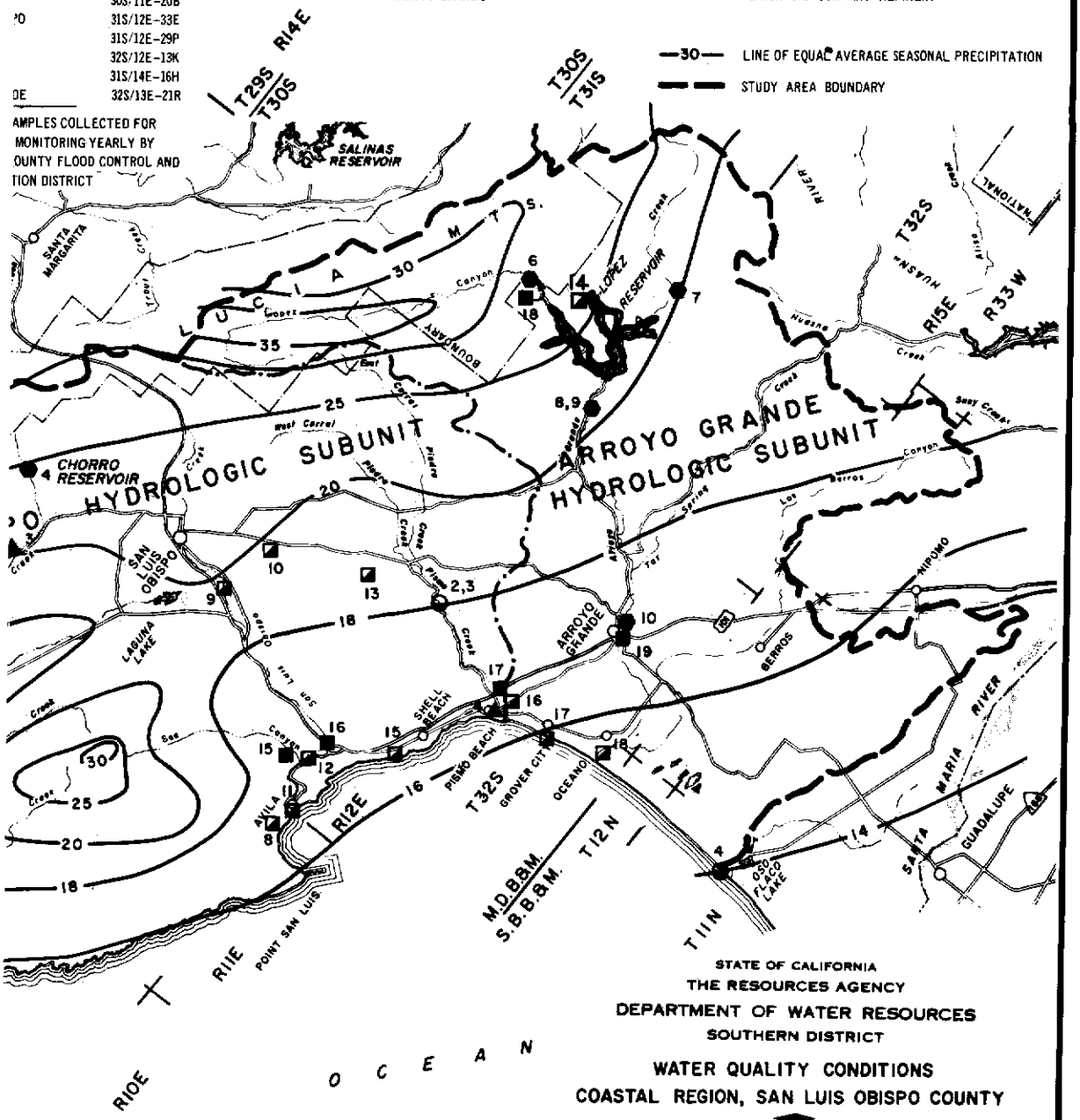
1. POINT PIEDRAS BLANCAS
2. CAMBRIA
3. CALIFORNIA STATE POLYTECHNIC COLLEGE AT SAN LUIS OBISPO
4. PISMO BRACH

INDUSTRIAL WASTE WATER DISCHARGES

1. PACIFIC GAS AND ELECTRIC COMPANY
2. HYLA OIL COMPANY
3. SIGNAL OIL AND GAS COMPANY
4. UNION OIL COMPANY REFINERY

—30— LINE OF EQUAL AVERAGE SEASONAL PRECIPITATION

STUDY AREA BOUNDARY



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT

WATER QUALITY CONDITIONS
COASTAL REGION, SAN LUIS OBISPO COUNTY

LINES OF EQUAL AVERAGE SEASONAL PRECIPITATION
1935-36 THROUGH 1966-67

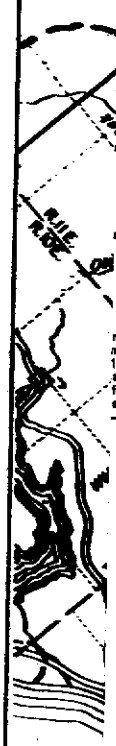
SCALE OF MILES

0 1 2 3 4 5 6 7 8 9

1969

WATER MONITORING NETWORK[a]

NOTE: PISMO FORMATION DELINEATED NOV. 1969



SAN LUIS OBISPO HYDROLOGIC SUBUNIT

32S/13E-32M3[b]
-33C3[b]
-33E3[b]
-33F1[b]
-33K1[b,ab]
-33L2[b]
-33M2[b]
32S/14E-19A1[b]
-19D1[b]
12N/35E-27N2[b]
-28L1[b]
-29N1[b]
-30K2[b,ab]
-30N2[b]
-30P2[b]
-34C2[b]
-34G3[b,ab]

monitored by San Luis Obispo County
nd Water Conservation District –
19Q1 is monitored by the United
al Survey.
for mineral analyses
surements – semiannually

10.81 – Morro Hydrologic Subarea
29S/10E-24N1[b]
-25B2[b]
-25C1[b]
-25C2[ab]
-25C3[b]
-25D2[b]
-25E2[ab]
29S/10E-17A1[b]
-17A2[b]
-17A3[b]
-19B2[b]
-19P1[b]
-30D1[b]

10.82 – Chorro Hydrologic Subarea
29S/11E-32J1[ab]
-32J2[b]
-32J4[ab]
29S/11E-32M1[ab]
-32M2[a]
30S/11E- 3D1[ab]

10.83 – Los Osos Hydrologic Subarea
30S/10E-13B2[a]
-13G1[b]
-13L1[a]
30S/11E- 7G3[a]
- 7K1[b]
- 7N1[a]
- 7Q1[ab]
30S/11E- 8J1[a]
- 8R1[a]
-17H1[b]
-18H1[ab]
-18K1[b]
-18Q1[ab]
-21E1[b]

10.84 – San Luis Obispo Hydrologic Subarea
30S/12E-29Q1[a]
-32J1[b]
31S/12E- 3F2[b]
- 4K1[ab]
-10F3[b]
-10G2[b]
-12E3[b]
-12N1[a]
-12Q3[b]
31S/12E-14C1[b]
-16R1[b]
-28C1[b]
-32C1[b]
-32D1[b]
-32D2[ab]
-33E2[b]
31S/13E-18M1[b]

10.86 – Pismo Hydrologic Subarea
31S/13E-16N1[b]
-16H1[b]
-27D3[b]
-29C1[b]
-29F4[a]
-29F5[a]
32S/12E-13A1[a]
-13J1[a]
-13J2[a]
-13P1[a]
-13R1[a]

DOMESTIC WASTE WATER DISCHARGES ON LAND

1. California Men's Colony
2. Cuesta Mobile Home Park (Proposed)
3. San Luis Obispo Bay Properties
4. City of San Luis Obispo
5. Hidden Hills Mobilodge
6. Avila Sanitary District
7. A-Vee-La-Mar Trailer Park (Proposed)
8. Fairway Manor Subdivision
9. Lopez Reservoir Recreational Area (Proposed)
10. LaSage Riviera

LEGEND

DIAGRAM LEGEND

UND WATER EXTRACTED
M ALLUVIUM

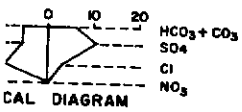
UND WATER EXTRACTED
M OLDER SAND DUNES

UND WATER EXTRACTED
M TERRACE DEPOSITS

UND WATER EXTRACTED
M PLIO-PLEISTOCENE FORMATIONS

UND WATER EXTRACTED
M BASEMENT ROCK

meq/l
(+) ANIONS (–)



CAL DIAGRAM

ATES DATE OF SAMPLE
SSOLVED SOLIDS IN mg/l
ATES UNCONFINED (u), CONFINED (c)
CONFINED (s) GROUND WATER
S SECTION AND WELL NUMBER

STUDY AREA BOUNDARY

HYDROLOGIC SUBUNIT BOUNDARY

HYDROLOGIC SUBAREA BOUNDARY

WATER-BEARING MATERIAL

E1 WELL

G1 WELLS RECOMMENDED FOR MONITORING WASTE WATER EFFECTS ON GROUND WATER

AREA OF OIL FIELD WASTE WATER DISPOSAL

ARROYO GRANDE SEWAGE TREATMENT PLANT (DEFUNCT)

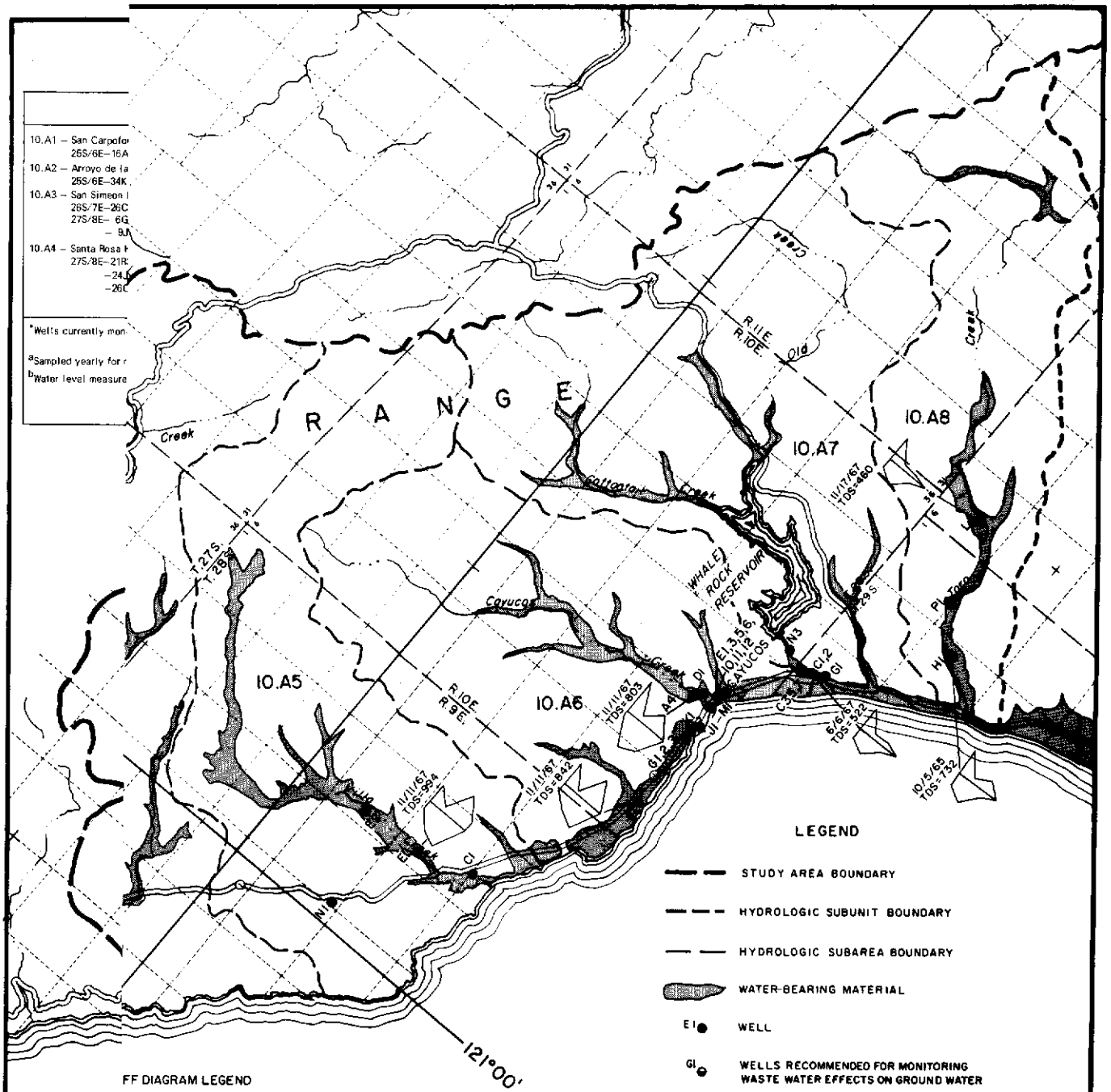
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT
STATE OF CALIFORNIA
THE RESOURCES AGENCY

WATER QUALITY CONDITIONS
COASTAL REGION
SAN LUIS OBISPO COUNTY

WATER QUALITY, STIFF DIAGRAMS

SCALE OF MILES
1 0 1 2 3 4

1969



LEGEND

STUDY AREA BOUNDARY

HYDROLOGIC SUBUNIT BOUNDARY

HYDROLOGIC SUBAREA BOUNDARY

WATER-BEARING MATERIAL

E1 WELL

G1 WELLS RECOMMENDED FOR MONITORING WASTE WATER EFFECTS ON GROUND WATER

1 DOMESTIC WASTE WATER DISCHARGE ON LAND
1. SAN SIMEON HISTORICAL MONUMENT VISITOR CENTER
2. CAMBRIA COUNTY WATER DISTRICT (PROPOSED)
3. U.S. AIR FORCE DEPENDENT HOUSING, CAMBRIA.

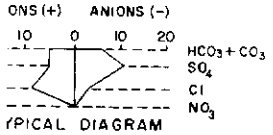
SOLID WASTE DUMPSITE

FF DIAGRAM LEGEND

JNCONFINED GROUND WATER
EXTRACTED FROM ALLUVIUM

JNCONFINED GROUND WATER
EXTRACTED FROM TERRACE DEPOSITS

UNCONFINED GROUND WATER
EXTRACTED FROM BASEMENT ROCK



YPICAL DIAGRAM

INDICATES DATE OF SAMPLE

L DISSOLVED SOLIDS IN mg/l

DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT
STATE OF CALIFORNIA
THE RESOURCES AGENCY

WATER QUALITY CONDITIONS
COASTAL REGION
SAN LUIS OBISPO COUNTY

WATER QUALITY, STIFF DIAGRAMS

SCALE OF MILES

1 0 1 2 3 4

1969