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DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

BULLETIN No. 40-A

SOUTH COASTAL BASIN INVESTIGATION

DETAILED ANALYSES

showing

QUALITY OF IRRIGATION WATERS

(Supplemental to Bulletin No. 40)

1933

26366

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Acknowledgment previously made in Bulletin No. 40 of those extending their valuable assistance and cooperation in making it possible to assemble these basic data is reiterated.

Acknowledgment is made to the laboratory which performed the original analyses by reference to a footnote on the last page of each table.

ORGANIZATION

STATE DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

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The South Coastal Basin Investigation,
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FOREWORD

This report supplements Bulletin No. 40, "Quality of Irrigation Waters in South Coastal Basin," 1933, a report of cooperative work by the Bureau of Plant Industry, United States Department of Agriculture, and the Division of Water Resources, State Department of Public Works.

Herewith are presented the analytical data which formed the basis upon which Bulletin No. 40 was written. These tables, 26 in number, comprise the data referred to on page 17 of the report as being available in the files of the Division of Water Resources.

INTRODUCTION

The analytical data in the following tables comprise the total of that assembled for and used as a basis for Bulletin No. 40. A small amount of additional data has been assembled by the Division of Water Resources since April, 1933, but is not included in this report. Certain cooperators have continued to make observations of water quality, particularly in Los Angeles and Orange counties, which will in future serve to maintain the continuity of the present available data.

The area which the data cover is referred to as the South Coastal Basin and includes the drainage basins of the Los Angeles, San Gabriel and Santa Ana rivers, and of the creeks that discharge directly into the Pacific Ocean in the vicinity of Santa Monica, as well as those so discharging in the vicinity of Newport Bay.

The locations of all sampling points for which water analysis data are available are shown on a map of the South Coastal Basin to be found in pocket.

The numbers used for the designation of wells, for which water samples have been analyzed, are the same for identical wells as those used in Bulletin No. 39 and supplements thereto, by Division of Water Resources, State Department of Public Works. Sources other than wells have been numbered according to a system described in the same bulletin as "Location Numbers." A descriptive letter preceding the location number has been used to classify the source of the water sample. The letter "S" designates a source where water appears on the surface of the ground as a stream, spring or lake, open or tile drain, or imported water. The letter "R" denotes sewage water, and "W" denotes industrial waste water. The letter following the number differentiates similar sources in the same quadrangle. Solid or open circles are used for wells and triangles for all other sources.

To facilitate tabulating the analytical data, the South Coastal Basin was divided into thirteen areas for the most part delimited by natural boundaries and named arbitrarily so that the name generally describes the geographical location of the area.

METHODS OF ANALYSIS AND INTERPRETATION

Methods of Analysis.

The so-called complete analyses, made in the laboratory of the Division of Water Resources by Mr. J. M. Sanchis, included the following determinations: (1) Specific electrical conductance; (2) Hydrogen ion concentration; (3) Carbonate and bicarbonate; (4) Chloride; (5) Sulphate; (6) Nitrate; (7) Calcium; (8) Magnesium; (9) Sodium. In addition to these the boron was determined in the Rubidoux Laboratory of the Division of Western Irrigation Agriculture by Messrs. L. V. Wilcox and John T. Hatcher. The so-called partial analyses included only (1) Specific electrical conductance; (2) Boron; (3) Carbonate and bicarbonate; (4) Chloride.

(1) Specific electrial conductance was determined by the conventional set-up with a Wheatstone bridge.[1] The results, expressed as reciprocal ohms at 25° centigrade ($K \times 10^5$ @ 25°C), are taken to represent a measurement of the total dissolved electrolytes in the water and are used in lieu of the determination of total dissolved solids.

(2) Hydrogen ion concentration was determined by the use of color indicators and an apparatus in which colored glass discs were used as standards. These colorimetric methods were checked occasionally by the electrometric method.

(3) The carbonate and bicarbonate ions were determined by titration with 0.05 Normal sulphuric acid, using phenolphthalein indicator for the carbonate and methyl orange for bicarbonate.

(4) Chloride was determined by adding potassium chromate indicator to the solution resulting from the carbonate-bicarbonate titration and then titrating with 0.05 Normal silver-nitrate solution.

(5) Sulphate was determined gravimetrically as barium sulphate by the Official Method except that silica was not removed prior to the precipitation of the barium sulphate. The relatively small quantity of silica occurring in these waters does not appear to interfere so long as the volume of the aliquot is not concentrated below 75 to 100 cc.

(6) Nitrate was determined by the use of phenoldisulfonic acid according to the Official Method except that the color comparison was made with an apparatus in which colored glass discs were used as standards, these discs having been calibrated with solutions of known nitrate concentration.

(7) Calcium was determined by precipitation as the oxalate, filtered, redissolved in hot dilute sulphuric acid, and titrated with standard permanganate solution substantially according to the Official Method.

[1] Scofield, C. S. Measuring the Salinity of Irrigation Waters and of Soil Solutions with the Wheatstone Bridge. U. S. Dept. Agri. Circ. 232, July, 1932.

(8) Magnesium was determined by precipitation as magnesium ammonium phosphate, which was ignited and weighed as the pyrophosphate.

(9) Sodium was determined by precipitation as sodium-uranylzinc-acetate, and after washing and drying was weighed as such.

(10) Boron was determined by the electrometric method of titration.[1]

Interpretation of Analyses.

Specific Electrical Conductance: This is a measurement of a definite physical property of a water sample, and is regarded by the writer as quite as significant a measure of the total dissolved solids as the results of a gravimetric determination in which salinity is expressed as parts per million. The conductance gives no clue as to the character of the salts in solution, it implies only the aggregate quantity of dissolved electrolytes. In respect to irrigation waters in the South Coastal Basin, if the boron concentration is below the limit of tolerance, and the sodium percentage is less than 60, it is believed that when the conductance is less than 100 the water is safe for general use. When the conductance is more than 100 but less than 300 it may be safe to use the water where drainage conditions are good or where the more tolerant crops are grown, but as the conductance approaches the upper limit of this range consideration should be given to the conditions of use and to the character of the salts involved. Waters having conductances above 300 are generally to be regarded as unsuited to irrigation use, although it should be understood that subsoil waters of that degree of salinity do not imply root zone conditions intolerable to many crop plants. In general terms it may be said that the soil solution or subsoil water is usually 5 to 8 times as concentrated as the irrigation water used.

Boron: The concentration of this constituent is expressed as parts per million of elemental boron in the solution. Experience in the South Coastal Basin has shown that under existing climatic conditions the critical concentration for this constituent in irrigation water lies between 0.5 and 1.0 ppm where the water is to be used for the more sensitive crop plants such as lemons and walnuts.

Per Cent Sodium: This expression as used in respect to the quality of irrigation water takes into account the ratio of the sodium content to the sum of the calcium, magnesium, and sodium, the concentrations of all 3 constituents being expressed in terms of milligram equivalents per liter. In other words the per cent codium is obtained by dividing the sum of the milligram equivalents of calcium, magnesium, and sodium into the figure for sodium and pointing off 2 places to the left,

$\left(\frac{Na \times 100}{Ca + Mg + Na}\right)$. The significance of this characteristic of the salt complex in irrigation water lies in the results of reactions of base exchange on the

[1] Wilcox, L. V. Electrometric Titration of Boric Acid. Ind. and Eng. Chem. Analytical Edition, Vol. 4, p. 38, 1932.

physical properties of the soil. If the dissolved salts are preponderantly those of calcium and magnesium; i.e., if the per cent sodium is low, then the reactions of base exchange are in the direction of maintaining good tilth and good permeability in the soil. On the other hand if the percentage of sodium is high the consequent reactions of base exchange in the soil tend in the direction of the replacement of calcium and magnesium by sodium in the exchange complex with the result that the soil becomes deflocculated and impermeable to water. Experience indicates that if the sodium percentage is below 50 there is little danger of impairing seriously the physical condition of the soil. If it is above 60, such danger exists. The critical ratio is believed to lie between 50 and 60.

Carbonate and Bicarbonate: These two constituents are closely related and their relative concentrations may change with changes in the content of carbon dioxide in the water. In the detailed tables on which this report is based the concentrations of both constituents, where both occur, have been reported in terms of bicarbonate. In the discussion of water conditions in the several areas the concentrations of bicarbonate are not mentioned because it is thought that this constituent has less agricultural significance than those that are mentioned. Occasionally waters are found in which the carbonates and bicarbonates comprise almost the whole of the anion complex. If in such waters the percentage of sodium is low the water is probably safe for irrigation use, but if the percentage of sodium is high the water may be alkaline in reaction and will be potentially harmful to the physical condition of the soil. The quantity of bicarbonate in well waters is the least variable of any constituent determined in these analyses.

Chloride: This constituent is the one most easily and most frequently determined in water analysis. It is important because it is one to which many crops are sensitive. As a result of long experience, it has come to be accepted in the South Coastal Basin that in respect to chlorides, irrigation water is safe to use if it contains less than 142 ppm (4 milligram equivalents). As the chloride concentration approaches 355 ppm (10 milligram equivalents) water becomes increasingly unsafe for irrigation use and above that limit its use is hazardous and should be safeguarded by good drainage and copious applications to keep the root zone leached.

Sulphate: Information as to the limits of tolerance of this constituent of irrigation water is much less precise than that in respect to chloride. It is recognized that if sulphate is associated with an abundance of calcium it is not likely to become injurious to crops because the limit of solubility of calcium sulphate (2000 ppm) is below the limit of crop tolerance. On the other hand the sulphates of magnesium and sodium are highly soluble and in the absence of sufficient calcium to precipitate sulphate from the soil solution, this constituent might reach concentrations injurious to crop plants. For convenience

in classifying waters, concentration limits have been adopted for sulphate analogous to those used for chloride (in terms of milligram equivalents), i.e., those containing less than 4 milligram equivalents, 192 ppm, are classed as safe for irrigation use so far as this constituent is concerned, while those ranging up to 10 milligram equivalents, 480 ppm, are placed in the doubtful class, with those ranging above 480 ppm as possibly harmful. It must be emphasized that these limits are somewhat arbitrary and that the quality of water in respect to its sulphate content should be considered in conjunction with its calcium content or at least in conjunction with its percentage of sodium. If sulphate concentration and per cent sodium are high the water may be unsatisfactory for irrigation use.

Nitrate: This constituent rarely occurs in irrigation waters in harmful concentrations. It is reported for two reasons. Its occurrence has a certain geographiic or geological significance. Also, it is sometimes used as an indication of the contamination of water supplies as by sewage effluents. It is to be noted that nitrate occurs in relatively high concentrations in some of the underground waters of the South Coastal Basin. It is the writer's view that these high concentrations should not be generally interpreted as evidence of sewage contamination, or as the result of the accumulation of fertilizer residues from cultivated lands. Both these sources may have contributed to some extent to the present condition but it is highly probable that they are both subordinate to other and natural conditions not yet fully understood.

Calcium, Magnesium, and Sodium: In the detailed tables of analytical data on which this report is based these three constituents have been recorded separately. In the discussion of the irrigation waters in this report they have been taken together as the components of the ratio designated "per cent sodium." The separate determination and reporting of these three constituents affords the basis for a criterion that is useful in determining the sources of salinity as discussed later in the case of suspected sea-water intrusion along the ocean front of the Coastal Plain.

TABLE 1. SURFACE WATERS IN SAN FERNANDO VALLEY

Number	Location and description	Location number	Time of day	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S3754-F-6	Los Angeles River. S. of Van Nuys. Sampled at Los Angeles County Flood Control Gaging Station F-C-5, on downstream side of Van Nuys Blvd. bridge. Water rises (during summer) within one mile upstream from sampling point. Drainage area 157 square miles. Discharge measurements by L. A. C. F. C. D. U. S. D. A. analysis on 12/16/31 is duplicate of D. W. R. Lab. No. 602 and is from same sample.	S3754	...	0.22	193	8/ 1/31	165.3	...	28	351	52	555	18	167	69	127
				0.11	291	9/11/31	171	0.45	28	[a]357	48	506	18	159	65	118
				0.08	455	10/16/31	164	0.42	29	363	59	558	19	172	68	132
				49.61	594	12/14/31	15.9	0.17	34	58	7	21	7	13	6	14
				1.15	602	12/16/31	57.3	0.24	29	143	18	137	8	53	16	38
				1.15	(c)	12/16/31	55.6	0.27	30	140	18	137	9	53	17	[b]40
			4.25 p.m.	35	(c)	1/31/32	...	...	...	64	12	105	1	...	...	...
			5.30 a.m.	200	(c)	2/ 1/32	...	...	...	75	22	65	1	...	...	...
			5.30 a.m.	170	(c)	2/ 8/32	...	...	...	85	14	50	2	...	...	...
			6.00 p.m.	2,000	(c)	2/ 8/32	...	...	...	53	12	30	1	...	...	...
			4.00 p.m.	500	(c)	2/ 9/32	...	...	...	75	18	59	2	...	...	...
				3.10	728	2/15/32	104	0.25	29	204	39	328	8	106	34	76
			7.30 p.m.	250	(c)	2/16/32	...	...	...	75	30	150	1	...	...	...
				1.08	807	3/11/32	152	0.34	...	342	53	...	...	...	...	...
				1.16	910	4/15/32	135	0.30	24	369	45	410	8	141	63	88
				0.34	980	5/19/32	162	0.28	27	354	51	558	20	168	71	123
				0.29	1048	6/15/32	158	0.35	...	363	50	...	...	...	...	...
				0.31	1159	7/19/32	162	0.35	...	375	50	...	...	...	...	...
				0.21	1409	9/16/32	165	0.50	28	384	48	543	11	173	68	129
				0.2	1472	10/10/32	164	0.33	...	381	46	...	...	...	...	...
				0.3	1542	11/19/32	167	0.39	...	387	48	...	...	...	...	...
			...	...	1578	12/10/32	140	0.27	24	372	41	389	12	150	65	94
S3835-F-7	Los Angeles River. S. of North Hollywood. Sampled at Los Angeles County Flood Control Gaging Station F-C-124, on downstream side of Vineland Ave. bridge. Use: Sampled before and after storm. Drainage area 400+ square miles. Discharge measurements by L. A. C. F. C. D.	S3835	5.15 p.m.	75	(c)	1/31/32	...	...	...	86	18	165	1	...	...	...
			6.15 a.m.	400	(c)	2/ 1/32	...	...	...	75	18	85	1	...	...	...
			7.10 a.m.	200	(c)	2/ 8/32	...	...	...	117	20	154	2	...	...	...
			6.40 p.m.	2,500	(c)	2/ 8/32	...	...	...	64	12	2	2	...	...	...
			4.30 p.m.	700	(c)	2/ 9/32	...	...	...	64	18	Tr.	1	...	...	...
			7.10 p.m.	300	(c)	2/16/32	...	...	...	86	22	107	Tr.	...	...	...
S3855-F-8	Los Angeles River. One mile E. of Universal City. Sampled under bridge on Hollywood Way. Dias Ave. power house discharges Los Angeles Aqueduct water into river above sampling point.	S3855	...	...	194	8/ 1/31	59	...	44	204	28	86	1	44	16	63
				...	293	9/11/31	130	0.54	40	229	9	470	Tr.	103	34	124
				...	456	10/16/31	119	0.34	32	275	51	351	6	117	43	100
				...	601	12/16/31	107	0.23	32	235	43	322	6	104	34	88
				...	727	2/15/32	52.3	0.34	...	168	21	...	...	...	...	...
				...	808	3/11/32	130	0.41	...	302	55	...	...	...	...	...
				...	911	4/15/32	131	0.37	34	271	57	423	7	124	45	117
				...	981	5/19/32	130	0.32	...	259	55	...	...	...	...	...
				...	1049	6/15/32	127	0.33	...	235	55	...	...	...	...	...
				...	1158	7/19/32	135	0.37	...	[a]274	59	...	...	...	...	...
				...	1406	9/16/32	02.9	0.56	40	201	28	106	1	52	16	60
				...	1473	10/10/32	59.7	0.58	...	186	27	...	...	...	...	...
				...	1543	11/19/32	127	0.35	...	296	50	...	...	...	...	...
				...	1579	12/10/32	121	0.32	30	290	48	325	11	125	40	94
S6006-B-6	Pacoima Creek. NE. of San Fernando. Sampled at U. S. G. S. gaging station in SE. ¼ of NE. ¼, Sec. 24, T. 3N., R. 15W., S. B. B. & M., 600 feet above mouth of Canyon, 2,000 feet below Pacoima Dam, 3.0 miles from Foothill Blvd. Flow regulated by Los Angeles County Flood Control District dam above station. Drainage area above dam 27.8 square miles. Drainage area above gaging station 27.9 square miles. Discharge measurements by U. S. G. S.	S6006	...	2	112	7/ 2/31	58.7	...	17	229	10	107	1	71	24	27
				2	211	8/12/31	59.2	...	21	[a]241	9	108	0	65	22	31
				2	290	9/11/31	64.7	0.31	14	[a]222	9	116	1	64	28	21
				1.5	434	10/15/31	65.8	0.10	...	[a]281	9	...	...	...	...	...
				0.3	653	1/19/32	60.4	0.13	...	250	11	...	...	...	...	...
				36	726	2/15/32	33.3	0.06	17	146	4	43	2	40	13	14
				22	817	3/15/32	34.7	0.04	...	159	7	...	...	...	...	...
				17	909	4/15/32	36.6	0.02	14	162	6	43	1	46	14	13
				15	988	5/15/32	37.7	0.06	...	[a]168	6	...	...	...	...	...
				17	1094	6/15/32	43.2	0.06	11	[a]192	7	54	1	53	16	12
				8	1160	7/15/32	44.6	0.07	...	198	7	...	...	...	...	...
				5	1276	8/15/32	43.0	0.05	...	[a]195	9	...	...	...	...	...
				7	1403	9/17/32	52.0	0.06	15	241	9	67	1	68	19	19
				3	1494	10/15/32	56.7	0.12	...	268	6	...	...	...	...	...
S5110-B-10	Big Tujunga Creek. NE. of Sunland. Sampled just below Dam No. 1 of the Los Angeles County Flood Control District. Use: Irrigation. Small flow in creek. Gage on flume read 0.35 feet. Discharge estimated by L. A. C. F. C. D.	S5110	...	0.11	111	7/ 2/31	36.8	...	32	204	6	15	0	38	12	32

TABLE 1. SURFACE WATERS IN SAN FERNANDO VALLEY—Continued

Number	Location and description	Location number	Time of day	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁴ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S5030-B-9	Big Tujunga Creek. NE. of Sunland. Sampled at U. S. G. S. water stage recorder near center of Sec. 32, T. 3N., R. 13W., S. B. B. & M. (unsurveyed), 4.2 miles from Foothill Blvd. just above where road crosses creek at west boundary of State Game Refuge. Drainage area 106 square miles. Discharge measurements by U. S. G. S.	S5030	----------	0.2	110	7/ 2/31	54.1	-------	30	[a]268	11	60	0	54	21	43
				0.1	292	9/11/31	66.9	0.57	27	302	9	68	0	65	23	43
				0.2	435	10/15/31	62.0	0.47	-------	305	12	-------	-------	-------	-------	-------
				2.6	599	12/14/31	53.7	0.51	27	259	13	65	0	56	19	38
				6	651	1/19/32	50.6	0.52	-------	253	11	-------	-------	-------	-------	-------
				165	734	2/16/32	24.2	0.06	-------	122	4	-------	-------	-------	-------	-------
				14	816	3/15/32	42.2	0.28	-------	217	7	-------	-------	-------	-------	-------
				20	915	4/15/32	36.2	0.20	26	[a]186	7	30	Tr.	39	13	24
				17	986	5/15/32	35.3	0.22	-------	[a]180	6	-------	-------	-------	-------	-------
				7	1092	6/15/32	37.7	0.13	-------	[a]189	7	-------	-------	-------	-------	-------
				16	1162	7/15/32	39.3	0.12	-------	207	7	-------	-------	-------	-------	-------
				6	1277	8/15/32	41.9	0.18	-------	[a]219	9	-------	-------	-------	-------	-------
				6	1404	9/16/32	43.8	0.21	25	229	7	28	Tr.	46	15	28
				4	1495	10/15/32	45.4	0.22	-------	235	7	-------	-------	-------	-------	-------
				4	1547	11/15/32	45.8	0.26	25	244	7	27	0	47	17	28
				3	1616	12/15/32	45.4	0.27	-------	235	9	-------	-------	-------	-------	-------
S4913-C-7	Big Tujunga Wash. W. of Sunland. Sampled at Mulholland St. (Stonehurst Ave.) Bridge, at Los Angeles County Flood Control District gaging station F-C-20. Use: Sampled before and after storm. Discharge measurements by I. A. C. F. C. D.	S4913	6.45 a.m.	90	(e)	2/ 8/32	-------	-------	-------	75	22	45	1	-------	-------	-------
			4.10 p.m.	600	(e)	2/ 8/32	-------	-------	-------	64	12	35	1	-------	-------	-------
			3.00 p.m.	900	(e)	2/ 9/32	-------	-------	-------	96	12	48	1	-------	-------	-------
			8.25 p.m.	500	(e)	2/16/32	-------	-------	-------	107	8	Tr.	1	-------	-------	-------
			5.15 p.m.	75	(e)	2/22/32	-------	-------	-------	139	12	Tr.	2	-------	-------	-------
S3973-E-10	Verdugo Canyon Creek. NE. of Glendale. Sampled under bridge at La Canada Blvd. crossing. Water rises below Colina Dr. Use: Diverted by city of Glendale to reservoir for municipal purposes.	S3973	-------	----------	346	9/23/31	36.8	0.09	22	146	12	46	2	34	17	20
				----------	433	10/15/31	36.8	0.01	-------	143	11	-------	-------	-------	-------	-------
				----------	600	12/16/31	40.9	0.06	21	149	13	68	1	40	17	20
				----------	725	2/15/32	59.1	0.05	-------	146	16	-------	-------	-------	-------	-------
				----------	809	3/14/32	60.6	0.08	-------	143	20	-------	-------	-------	-------	-------
				----------	1050	6/13/32	49.4	0.05	19	137	20	92	2	50	21	23
				----------	1544	11/19/32	48.6	0.10	-------	131	11	-------	-------	-------	-------	-------
				----------	1580	12/10/32	47.2	0.10	18	134	9	108	1	48	20	21
S4801-C-5	Bull Canyon Creek. W. of San Fernando. 1,200 feet N. of Rinaldi St., 800 feet W. of Havenhurst Ave. Sampled 100 feet above Sulphur Spring. Use: Irrigation.	S4801	----------	----------	1106	6/23/32	120	0.52	32	381	73	211	18	110	40	93
S4801A-C-5	Sulphur Spring. W. of San Fernando. Spring on W. Bank of Bull Canyon Creek, 1,200 feet N. of Rinaldi St., 700 feet W. of Havenhurst Ave. Continous flow, mixes with Bull Canyon water. Water has strong odor of H_2S.	S4801A	----------	----------	(d)	3/ 8/28	-------	-------	65	395	56	354	Tr.	77	18	[b]232
				----------	1105	6/23/32	68.6	0.20	31	299	32	72	0	68	21	53
S4801B-C-5	J. H. Elerath. Tile drainage outlet. W. of San Fernando. Sample from outlet at lower end of Row 8 of owner's home ranch on N. bank of Bull Canyon Creek. 500 feet N. of Rinaldi St., 650 feet E. of Havenhurst Ave. Use: Not used. Continuous flow throughout year.	S4801B	----------	----------	(d)	3/ 8/28	-------	-------	42	437	46	277	4	89	22	[b]104
				----------	1107	6/23/32	85.6	0.39	38	381	66	43	1	74	26	83
S4811-C-5	J. H. Elerath. W. of San Fernando. Sampled at small lake 1,000 feet N. of Rinaldi St., 1,200 feet E. of Havenhurst Ave. Use: Irrigates 15-20 acres. Continuous flow throughout year. Water rises in canyon about 1,500 feet above lake.	S4811	-------	----------	(d)	2/21/30	-------	-------	60	583	108	385	1	122	36	[b]312
				----------	1108	6/23/32	47.9	0.18	43	159	60	8	0	37	11	48

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Information from W. H. Wood and F. B. Laverty.
[d] Analysis by Charles D. Samuels, Ph.D., Covina, California.
[e] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

S5908-B-5. LOS ANGELES AQUEDUCT

Owner—City of Los Angeles.

Location and description—Owens Valley water from aqueduct at San Fernando Power House above upper San Fernando Reservoir. N.W. of San Fernando.

Ground elevation—1235, from U.S.G.S. topog., by D. W. R.

Use—Municipal and irrigation.

Source of information—Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California. Discharge data from City of Los Angeles, Department of Water and Power.

Location number—S-5908

Date	Discharge in second-feet	Specific electrical conductance (K x 10³ at 25° C)	Boron ppm	Per cent Sodium: Na x 100 / Ca+Mg+Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
7/ 6/28	344	39.6	0.73	62	184	21	29	-------	32	(c)	b60
7/13/28	363	37.2	0.75	62	165	21	26	-------	29	(c)	b55
7/20/28	361	37.3	0.65	59	177	20	32	-------	34	(c)	b56
7/27/28	355	35.9	0.60	62	158	18	28	-------	28	(c)	b52
8/ 3/28	353	33.4	0.67	59	160	19	26	-------	30	(c)	b50
8/10/28	356	33.7	0.70	63	160	19	31	-------	28	(c)	b55
8/15/28	353	36.4	0.58	63	171	24	32	-------	30	(c)	b60
8/24/28	365	34.6	0.55	59	146	20	39	-------	31	(c)	b51
8/31/28	353	34.4	0.73	61	146	20	41	-------	30	(c)	b53
9/ 7/28	256	40.7	0.62	61	140	18	37	-------	28	(c)	b50
9/11/28	256	37.5	0.55	59	134	21	42	-------	30	(c)	b50
9/18/28	277	41.7	0.59	63	146	16	36	-------	27	(c)	b52
9/25/28	256	38.6	0.54	64	159	19	43	-------	29	(c)	b60
10/ 2/28	242	42.7	0.67	62	159	23	57	-------	33	(c)	b62
10/ 9/28	272	41.1	0.53	58	171	21	32	-------	34	(c)	b54
10/16/28	205	35.9	0.92	60	155	25	40	-------	33	(c)	b56
10/23/28	190	38.8	0.54	56	146	23	44	-------	35	(c)	b51
10/30/28	208	40.1	0.66	62	155	21	44	-------	31	(c)	b58
11/ 6/28	217	37.5	0.59	66	155	19	45	-------	27	(c)	b62
11/13/28	199	39.5	0.68	62	155	19	36	-------	29	(c)	b55
11/20/28	211	37.8	0.60	71	152	21	36	-------	22	(c)	b63
11/27/28	239	37.5	0.60	65	149	23	38	-------	27	(c)	b58
12/ 4/28	267	36.6	0.61	67	152	21	70	-------	30	(c)	b70
12/11/28	297	37.6	0.80	64	155	21	40	-------	29	(c)	b58
12/19/28	264	35.9	0.76	59	152	23	35	-------	32	(c)	b52
12/26/28	194	37.7	0.62	57	152	23	43	-------	28	4	b52
1/ 2/29	192	37.5	0.73	51	137	21	35	-------	28	4	b42
1/ 8/29	244	38.4	0.57	47	156	23	29	-------	29	7	b41
1/14/29	111	39.1	0.65	47	159	21	32	-------	27	8	b42
1/22/29	147	42.5	0.68	52	152	21	33	-------	29	5	b45
1/28/29	119	41.9	0.58	50	159	25	40	-------	33	5	b47
2/ 4/29	181	40.5	0.67	50	152	21	29	-------	29	5	b43
2/12/29	200	40.6	0.66	42	162	25	34	-------	29	11	b39
2/18/29	108	38.2	0.76	52	152	21	30	-------	27	5	b45
2/26/29	167	39.8	0.60	55	159	21	36	-------	26	6	b49
3/ 5/29	228	41.3	0.65	57	162	23	32	-------	25	6	b52
3/12/29	261	41.6	0.79	50	159	21	41	-------	27	8	b47
3/18/29	100	41.0	0.65	52	162	21	32	-------	29	5	b47
3/26/29	172	41.6	0.75	55	157	22	39	-------	25	7	b50
4/ 1/29	136	38.2	0.64	51	158	22	28	-------	26	7	b45
4/ 9/29	242	42.2	0.72	43	160	22	31	-------	27	11	b39
4/16/29	172	41.6	0.77	55	169	26	38	-------	26	7	b53
4/23/29	181	39.8	0.64	52	171	25	32	-------	28	7	b50
4/30/29	194	41.3	0.86	55	168	26	33	-------	28	6	b53
5/ 7/29	339	41.8	0.88	58	177	28	34	-------	28	6	b58
5/21/29	314	44.1	0.73	51	178	27	31	-------	31	7	b50
5/28/29	333	49.4	0.80	52	178	32	25	-------	32	6	b52
6/ 4/29	333	45.4	0.73	60	174	28	42	-------	27	6	b62
6/11/29	333	44.9	0.87	58	173	27	38	-------	28	6	b58
6/18/29	331	44.9	0.81	57	179	27	37	-------	28	6	b59
6/25/29	319	43.9	0.73	53	179	26	34	-------	29	7	b53
7/ 2/29	333	43.6	0.80	54	176	26	33	-------	28	7	b53
7/ 9/29	353	43.4	0.59	57	183	28	33	-------	27	7	b58
7/15/29	244	37.9	0.70	48	170	26	29	-------	28	9	b45
7/23/29	339	43.7	0.63	61	177	32	80	-------	36	4	b77
7/30/29	353	40.5	0.56	49	168	23	32	-------	27	9	b46
8/ 6/29	316	40.2	0.64	54	166	23	36	-------	27	7	b51
8/13/29	360	41.1	0.71	48	171	28	34	-------	27	11	b47
8/20/29	355	40.7	0.63	50	164	22	31	-------	27	8	b46
8/27/29	327	39.3	0.65	49	161	22	33	-------	27	8	b45
9/ 3/29	317	39.7	0.63	48	159	23	44	-------	29	9	b46
9/10/29	358	39.6	0.60	48	159	23	41	-------	30	8	b45
9/17/29	342	39.5	0.66	58	183	32	40	-------	32	5	b63

Date	Discharge in second-feet	Specific electrical conductance (K x 10³ at 25° C)	Boron ppm	Per cent Sodium: Na x 100 / Ca+Mg+Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
9/24/29	328	40.2	0.58	-------	165	28	-------	-------	-------	-------	-------
10/ 1/29	368	43.2	0.66	61	171	32	40	-------	30	5	b68
10/ 8/29	228	43.6	0.60	42	165	23	31	-------	30	13	b43
10/15/29	225	43.0	0.56	40	165	23	31	-------	32	13	b41
10/22/29	216	43.4	0.64	57	162	27	36	-------	32	3	b58
10/29/29	271	45.6	0.73	44	168	32	43	-------	33	12	b48
11/ 7/29	259	45.2	0.66	42	159	28	38	-------	35	10	b44
11/12/29	231	44.4	0.66	49	162	36	48	-------	33	10	b53
11/19/29	259	45.0	0.67	48	165	30	47	-------	35	8	b49
11/26/29	262	44.0	0.66	45	159	25	46	-------	32	9	b44
12/ 3/29	316	43.5	0.60	46	171	25	42	-------	31	10	b46
12/10/29	355	42.9	0.66	40	156	27	43	-------	37	8	b39
12/18/29	252	41.7	0.64	39	159	25	41	-------	34	10	b38
12/24/29	224	40.9	0.57	37	159	21	39	-------	32	11	b34
12/31/29	241	41.2	0.76	43	159	25	38	-------	33	9	b40
1/ 7/30	296	43.1	0.71	40	152	25	42	-------	34	9	b37
1/14/30	328	44.2	0.73	43	165	20	45	-------	33	9	b42
1/21/30	272	40.4	0.62	42	156	18	36	-------	30	9	b37
1/28/30	245	41.8	0.60	41	159	25	38	-------	33	9	b39
2/ 4/30	239	40.4	0.61	46	162	18	33	-------	28	9	b41
2/11/30	262	40.1	0.68	43	152	16	29	-------	29	8	b35
2/18/30	203	45.9	0.66	28	146	21	41	-------	41	9	b24
2/25/30	222	41.6	0.56	45	146	16	33	-------	27	7	b36
3/ 4/30	281	43.3	0.64	54	171	21	44	-------	27	8	b53
3/11/30	258	44.9	0.57	58	171	23	56	-------	31	5	b61
3/18/30	178	48.8	0.68	46	165	16	56	-------	30	10	b46
3/25/30	142	47.6	0.62	53	177	27	53	-------	29	10	b58
4/ 1/30	203	43.7	0.62	58	165	25	61	-------	29	6	b62
4/ 8/30	183	44.1	0.67	49	183	27	44	-------	32	10	b52
4/15/30	200	44.3	0.67	52	183	23	42	-------	30	8	b54
4/22/30	242	45.5	0.71	53	186	27	39	-------	30	8	b57
4/28/30	395	44.8	0.79	53	189	28	39	-------	30	8	b58
5/ 6/30	379	45.0	0.67	51	186	25	37	-------	30	9	b54
5/13/30	307	46.3	0.70	49	186	25	39	-------	33	8	b52
5/20/30	328	47.4	0.64	56	192	27	50	-------	31	8	b63
5/27/30	299	45.3	0.73	51	183	23	51	-------	31	10	b55
6/ 3/30	374	45.7	0.74	53	195	23	43	-------	30	9	b58
6/10/30	372	45.3	0.58	50	189	25	40	-------	33	8	b53
6/17/30	369	43.7	0.67	54	183	25	57	-------	30	9	b61
6/24/30	372	44.3	0.62	53	177	23	42	-------	31	7	b54
7/ 1/30	382	42.4	0.57	48	174	25	41	-------	30	10	b48
7/ 8/30	380	38.8	0.60	48	165	25	36	-------	29	8	b46
7/15/30	362	40.0	0.42	36	134	20	80	-------	38	12	b37
7/22/30	372	38.6	0.49	51	171	18	34	-------	28	7	b47
7/29/30	361	38.3	0.42	47	146	21	43	-------	28	8	b42
8/ 5/30	372	36.8	0.51	50	159	18	36	-------	27	7	b44
8/12/30	381	36.4	0.42	46	143	12	32	-------	27	6	b35
8/19/30	371	36.5	0.45	46	104	37	34	-------	25	8	b36
8/26/30	376	37.1	0.44	55	156	21	34	-------	24	6	b46
9/ 2/30	261	37.2	0.42	51	168	21	35	-------	28	7	b48
9/ 9/30	291	37.6	0.72	51	171	21	35	-------	27	9	b48
9/16/30	346	37.4	0.49	48	143	21	34	-------	28	6	b40
9/23/30	349	38.8	0.48	43	156	16	36	-------	30	8	b37
9/30/30	343	38.8	0.33	46	177	20	36	-------	29	10	b44
10/ 7/30	147	40.7	0.38	45	171	18	38	-------	32	8	b42
10/14/30	178	39.6	0.38	46	156	18	39	-------	29	8	b40
10/21/30	227	39.9	0.41	42	159	18	35	-------	30	9	b37
10/28/30	167	40.3	0.45	44	165	20	36	-------	29	10	b40
11/ 4/30	181	39.3	0.48	41	159	16	43	-------	30	10	b37
11/11/30	214	39.4	0.39	48	165	21	39	-------	28	9	b46
11/18/30	216	39.4	0.48	50	165	23	38	-------	28	8	b48
11/25/30	187	39.6	0.43	45	156	18	42	-------	28	9	b41
12/ 2/30	185	39.2	0.47	46	152	16	43	-------	29	8	b40
12/ 9/30	295	39.4	0.39	48	159	21	42	-------	28	9	b45
12/16/30	425	40.3	0.47	46	168	21	40	-------	30	9	b45
12/23/30	428	40.5	0.48	49	168	20	38	-------	28	9	b46
12/30/30	414	40.9	0.48	46	162	16	39	-------	29	8	b42
1/ 6/31	239	41.2	0.47	55	192	18	39	-------	29	7	b56
1/13/31	211	40.4	0.56	47	149	16	36	-------	28	6	b40
1/20/31	192	39.6	0.54	46	137	18	39	-------	28	6	b38
1/27/31	189	40.7	0.48	49	162	16	37	-------	29	7	b44
2/ 3/31	302	40.5	0.54	51	162	20	38	-------	28	7	b47
2/10/31	315	40.8	0.47	49	159	20	43	-------	28	8	b46

Date	Discharge in second-feet	Specific electrical conductance (K x 10⁵ at 25° C)	Boron ppm	Per cent Sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
2/17/31	273	41.9	0.54	47	162	16	35	------	29	7	[b]41
2/24/31	349	50.2	0.51	36	229	14	40	------	51	8	[b]41
3/3/31	244	41.3	0.43	47	162	18	41	------	30	8	[b]43
3/10/31	272	41.0	0.58	45	149	18	31	------	29	7	[b]37
3/17/31	258	42.8	0.58	42	151	21	27	------	29	8	[b]35
3/24/31	347	41.8	0.54	53	174	21	38	------	28	7	[b]52
3/31/31	361	42.8	0.53	52	177	21	36	------	29	7	[b]51
4/7/31	390	43.2	0.60	53	180	21	38	------	29	8	[b]53
4/14/31	395	43.3	0.56	52	183	23	38	------	29	8	[b]54
4/21/31	387	44.2	0.58	55	183	20	38	------	29	6	[b]55
4/28/31	253	44.0	0.50	48	162	21	40	------	29	8	[b]45
5/5/31	227	44.1	0.59	55	189	25	37	------	29	8	[b]58
5/12/31	325	44.9	0.54	50	186	18	29	------	30	7	[b]48
5/19/31	299	44.0	0.62	50	180	18	38	------	30	8	[b]49
5/26/31	310	44.3	0.64	56	189	27	35	------	29	7	[b]59
6/2/31	326	44.1	0.60	54	195	23	43	------	29	9	[b]59
6/9/31	290	44.4	0.54	53	189	21	27	------	29	6	[b]52
6/16/31	384	44.6	0.65	53	192	23	39	0	32	7	[b]57
6/23/31	375	44.1	0.55	54	183	25	39	0	29	8	[b]56
6/30/31	386	43.7	0.56	56	186	23	39	Tr	28	7	[b]59
7/7/31	369	43.0	0.55	51	177	21	36	0	29	8	[b]50
7/16/31	400	41.9	0.58	54	177	23	36	Tr	29	7	[b]53
7/23/31	400	42.7	0.66	57	186	21	36	0	28	6	[b]57
7/28/31	400	38.8	0.65	44	146	16	35	0	28	7	[b]37
8/4/31	394	41.3	0.67	58	183	20	39	2	26	7	[b]58
8/11/31	405	40.0	0.60	54	165	20	32	2	26	7	[b]49
9/11/31	367	36.5	0.53	43	149	18	33	1	30	7	[b]36
10/4/31	140	40.7	0.46	------	162	20	------	------	------	------	------
11/3/31	316	40.2	0.52	------	174	18	------	------	------	------	------
12/1/31	398	37.4	0.53	------	157	27	------	------	------	------	------
12/29/31	392	39.3	0.53	------	151	20	------	------	------	------	------
1/26/32	228	40.2	0.66	------	171	21	------	------	------	------	------
2/25/32	300	44.6	0.81	------	186	27	------	------	------	------	------
3/22/32	340	47.8	0.96	------	207	30	------	------	------	------	------
4/18/32	240	51.9	1.24	------	229	41	------	------	------	------	------
5/17/32	340	57.5	1.44	------	244	41	------	------	------	------	------
6/14/32	400	51.3	1.25	------	223	23	------	------	------	------	------
7/12/32	400	40.7	0.96	------	177	28	------	------	------	------	------
7/21/32	------	35.9	0.74	------	162	26	------	------	------	------	------
8/2/32	340	31.7	0.64	------	[a]146	18	------	------	------	------	------
9/7/32	400	29.6	0.60	------	140	16	------	------	------	------	------
10/4/32	400	31.8	0.54	------	140	18	------	------	------	------	------
11/1/32	220	34.2	0.56	------	149	24	------	------	------	------	------

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicals and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Calcium and Magnesium determined together and calculated to equivalent quantity of Calcium.

S4821-C-6. LOWER SAN FERNANDO RESERVOIR

Owner—City of Los Angeles.
Location and description—Sampled at outlet from reservoir. W. of San Fernando.
Ground elevation—1025, from U.S.G.S. topog., by D. W. R.
Use—Municipal and irrigation.
Source of information—Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
Location number—S4821.

Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25° C)	Boron ppm	Per cent Sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
6426	7/21/32	50.8	1.15	------	210	36	------	------	------	------	------

S4677-D-2. CHATSWORTH RESERVOIR

Owner—City of Los Angeles.
Location and description—1.15 miles W. of Canoga Ave., 3100 feet N. of Roscoe St. Sampled at surface near east end of dam.
Ground elevation—870, from U.S.G.S. topog., by D. W. R.
Use—Municipal and irrigation. Storage for Los Angeles Aqueduct water.
Source of information—Analysis by D. W. R.
Location number—S4677.

Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25° C)	Boron ppm	Per cent Sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
1099	6/22/32	47.5	0.85	55	[a]183	28	42	2	30	9	63

[a] Includes small equivalent quantity of Carbonate (CO_3).

TABLE 3. WELLS IN SAN FERNANDO VALLEY

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10[5] at 25°C)	Boron ppm	Percent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
A-1-B-4	Cascade Ranch. W. of San Fernando; 1,400 feet NE. of Balboa Ave. on N. side of Bee Canyon Creek, W. of Upper San Fernando Reservoir. Use: Capped, not used. Casing: 16 inches. Gravel 50-72; 190-194. Sample 1 from first gravel stratum. Sample 2 from second gravel stratum before perforating first gravel. Sample 3 after well had been pumped, and is composite of two gravel strata.	5899	1,280	*500	[c]1	11/12/31	-------	0.50	26	228	39	1000	-------	218	97	[d]158
					[c]2	11/12/31	-------	0.47	23	288	42	810	-------	208	88	[d]119
					[c]3	11/30/31	-------	0.55	18	342	40	687	-------	200	88	[d]89
A-2-B-5	G. Henry Stetson (Sombrero Ranch), Well 2. NW. of San Fernando; 100 feet NW. of Olden Ave., produced N., 1,000 feet NE. of Remsen St., 100 feet N. of A-2a-B-5. Use: Irrigation and domestic. Casing: 18 inches.	5937	1,425	x300	354	9/25/31	98.9	0.57	13	302	27	240	22	108	55	35
					1120	6/24/32	110	0.42	13	305	32	304	23	125	60	38
A-2a-B-5	G. Henry Stetson (Sombrero Ranch), Well 1. NW. of San Fernando; on N. line of Olden Ave. produced, 940 feet NE. of Remsen St. Use: Irrigation and domestic. Casing: 14 inches.	5937A	1,422	x255	355	9/25/31	82.0	0.46	-------	225	34	-------	-------	-------	-------	-------
					1121	6/24/32	89.6	0.26	13	238	32	186	27	97	45	29
A-3b-B-6	City of San Fernando, Well 4. San Fernando; 300 feet NW. of Hubbard Ave., 30 feet NE. of Mansfield St. Use: Municipal. Casing: 18 inches. Perforated 198-238; 291-295; 334-352; 361-387.	5969	1,244	*x481	([f])	7/17/31	-------	-------	-------	210	15	[b]30	-------	-------	-------	-------
					1122	6/23/32	42.6	0.07	25	204	12	28	6	46	12	25
A-3e-B-6	City of San Fernando, Well 2. San Fernando; 50 feet SE. of Sayre Ave., 50 feet SW. of Borden St. Use: Municipal. Gravel 100-130; 134-150; 156-250.	5969A	1,221	*x250	([f])	7/17/31	-------	-------	-------	210	19	[b]17	-------	-------	-------	-------
A-4-B-6	Ford-Craig Ranch, Pit 1. N. of San Fernando; 50 feet NE. of Garrett St., 45 feet SE. of Hubbard Ave. Use: Irrigation. Interconnected to Pit 2.	5988	1,420	x400	1123	6/24/32	69.4	0.10	19	296	27	70	23	82	23	34
A-4g-B-6	Ford-Craig Ranch. NE. of San Fernando; 50 feet NW. of McClay St., 0.70 mile NE. of Foothill Blvd., W. of Pacoima Creek at foot of bluff. Use: Irrigation.	5989	1,250	---------	1408	9/16/32	43.9	0.07	15	[a]189	7	62	Tr.	50	17	16
A-10b-D-3	W. M. Beckstead. N. of Owensmouth; 50 feet S. of Roscoe Ave., 0.15 mile W. of De Soto Ave. Use: Irrigation. Gravel 28-48; 67-91; 293-299.	4708A	833	*x320	1100	6/22/32	99.2	0.23	23	308	55	176	18	112	33	58
A-11b-D-3	Wm. Mulholland, Well 1. SE. of Chatsworth; 0.5 mile N. of Nordhoff St., 20 feet W. of Corbin Ave., 20 feet S. of Plummer St. Use: Irrigation. Casing: 16 inches. Perforated 116-180; 233-245.	4735B	871	*x308	357	9/25/31	99.2	0.30	18	284	32	242	27	127	34	47
					1101	6/22/32	98.7	0.27	16	278	28	228	31	129	33	39
A-13a-D-3	J. L. Hadley. SW. of N. Los Angeles; 25 feet S. of Strathern St., 375 feet E. of Corbin Ave. Use: Irrigation. Casing: 8-inch rotary hole, reamed to 30 inches. Gravel 90-106; 118-128; 142-148; 163-166.	4738	782	*290	1102	6/22/32	118	0.31	18	287	39	350	11	154	41	55
A-17-C-4	Sunshine Ranch. W. of San Fernando; 2,900 feet N. of Rinaldi St., 200 feet W. of Zelzah Ave., extended, in pump house 300 feet W. of creek. Use: Irrigation and domestic. Casing: 20 inches.	4771	1,236	x432	1103	6/23/32	97.6	0.34	13	339	82	123	0	154	16	31
A-20a-C-5	J. H. Elerath. W. of San Fernando; 700 feet E. of Havenhurst Ave., 1,800 feet N. of Rinaldi St. Use: Irrigation. Casing: 5' x 5' dug well. Pumps dry in four hours; refills in twenty-four hours.	4801	1,070	30	([g])	3/8/28	-------	-------	34	68	607	54	2	184	44	[d]152
					1104	6/23/32	346	1.77	44	46	1083	0	0	235	71	315
A-24-B-5	R. Erratchuo. NW. of San Fernando; 140 feet SW. of Monticello St., 0.3 mile SE. of Bledsoe Ave., 0.27 mile W. of San Fernando Road. Use: Irrigation and domestic. Casing: 10 inches. Perforated 60-131.	4830	1,155	*x131	1109	6/24/32	67.1	0.26	31	262	32	80	11	65	20	52
A-24a-C-5	General Petroleum Co. NW. of San Fernando; 600 feet SW. of San Fernando Road, 0.3 mile NW. of Hubbard Ave., 30 feet NW. of corrugated iron building. Use: Industrial. Casing: 12 inches. Gravel 122-133.	4840	1,120	*x190	([h])	5/7/13	-------	-------	22	-------	22	56	-------	25	11	[d]14
					([i])	5/19/13	-------	-------	34	-------	21	34	-------	58	0	[d]34
					([j])	12/12/24	-------	-------	33	214	6	37	-------	46	8	[d]34
					1111	6/24/32	43.2	0.07	24	207	11	38	2	48	13	25
A-26a-D-5	Frank Spichtig. Sepulveda; 30 feet E. of Noble Ave., 800 feet S. of Parthenia St. Use: Irrigation. Casing: 14 inches. Gravel 50-90; 188-203; 231-266; 294-303; 323-342; 344-383.	4837	812	*x385	358	9/25/31	145	0.28	26	247	36	532	19	169	46	101
					1110	6/24/32	158	0.35	26	271	41	601	18	186	52	109

TABLE 3. WELLS IN SAN FERNANDO VALLEY—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Percent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
A-28b-B-6	City of San Fernando, Well 1. San Fernando; 300 feet SE. of Hubbard Ave., 600 feet NE. of 4th St. Use: Municipal. Casing: 15 inches. (1) Mean of 13 samples from 7/6/28 to 9/25/28, inclusive; (2) mean of 12 samples from 10/2/28 to 12/26/28, inclusive; (3) mean of 12 samples from 1/2/29 to 3/26/29, inclusive; (4) mean of 15 samples from 4/1/29 to 7/23/29, inclusive.	4850B	1,130	x170	[1]1	Mean	52.3	0.30	27	241	15	64	----	81	(c)	35
					[1]2	Mean	53.1	0.33	30	231	17	61	----	77	(c)	38
					[1]3	Mean	55.7	0.30	18	230	16	51	----	54	19	21
					[1]4	Mean	54.5	0.26	21	228	16	41		55	18	25
					(f)	7/17/31	----	----	----	244	18	[b]55	----	----	----	----
					356	9/25/31	53.6	0.35	23	241	16	59	8	56	23	32
					1112	6/24/32	53.5	0.24	23	238	16	53	6	57	20	30
A-31a-D-6	Los Angeles Creamery. S. of San Fernando; 300 feet SW. of Woodman (Payton) Ave., 100 feet SE. of Branford Ave., extended Use: Irrigation and industrial. Casing: 20 inches.	4867	824	x850	359	9/25/31	49.6	0.28	19	250	9	45	6	59	21	24
					1113	6/24/32	49.0	0.06	18	244	9	39	5	55	18	22
A-41a-C-7	Wildwood Trout Resort. W. of Sunland; 650 feet E. of Orcus Ave., 795 feet S. of Tujunga Valley Ave. (Foothill Blvd.). Use: Trout lakes and domestic. Casing: 20 inches.	4932	1,077	x147	343	9/23/31	61.6	0.20	20	241	14	101	7	68	24	31
					1114	6/24/32	67.2	0.15	20	238	16	128	4	78	23	34
A-44a-C-8	Wm. Taylor. W. of Sunland; 225 feet NE. of N. end of Tujunga Valley Ave. (Foothill Blvd.) main bridge over Big Tujunga Wash. Use: Domestic and irrigation. Casing: 12 inches. Gravel 43-70; 80-98.	4962	1,193	*x112	342	9/23/31	105	0.34	17	256	16	350	1	132	50	47
					1115	6/23/32	66.6	0.20	25	235	11	141	1	65	27	41
A-47-C-8	Judge Crail. N. of Sunland; W. of Ora Vista Ave., extended, 20 feet from cliff on N. side of Big Tujunga Wash. Use: Domestic and irrigation.	4982	1,300	*x480	1116	6/24/32	71.6	0.59	47	342	16	72	Tr.	40	26	84
A-48f-C-8	American States Water Service Co. Sunland; 25 feet S. of Fenwick St., 75 feet E. of McVine Ave. Use: Municipal. Casing: 16 inches. Perforated 66-74; 116-122; 148-168; 230-236.	4983F	1,400	*290	(f)	7/24/31	----	----	----	195	16	[b]10	----	----	----	----
A-49a-C-8	American States Water Service Co. Sunland; 250 feet S. of Foothill Blvd. (Michigan Ave.), 50 feet E. of Woodward Ave. Use: Municipal. Casing: 14 inches. Gravel 108-140; 156-256; 290-302; 322-324.	4994	1,460	*x350	341	9/23/31	32.7	0.06	22	180	11	7	2	36	16	20
					1117	6/24/32	32.5	0.01	26	177	7	3	4	31	13	22
A-50b-D-9	Highway Highlands Water Co. SE. of Sunland; 75 feet S. of Foothill Blvd., 300 feet NW. of Central Ave. Use: Domestic. Casing: 12 inches.	5036	1,750	*x309	340	9/23/31	33.2	0.02	23	171	9	15	4	32	14	19
					1118	6/24/32	33.2	0.04	20	174	6	16	3	32	13	15
A-53a-D-10	T. J. Lawrence. La Crescenta; 75 feet W. of Briggs Ave., 0.90 miles N. of Foothill Blvd. Use: Irrigation and domestic. Casing: 12 inches.	5066	1,915	*x350	339	9/23/31	37.1	0.01	22	180	11	26	6	34	17	21
					1119	6/24/32	37.9	0.05	22	177	9	28	4	37	17	21
A-55c-D-9	City of Glendale, Sparr Well 2. S. of La Crescenta; 60 feet W. of La Crescenta Ave., 1,890 feet S. of Honolulu Ave. Use: Municipal. Casing: 16 inches.	5069C	1,173	----	338	9/23/31	34.8	0.04	25	171	12	13	6	31	17	22
A-56b-E-2	George Platt, Well 1. SW. of Owensmouth; 210 feet S. of Victory Blvd., 25 feet W. of Berquist Ave. Use: Irrigation. Casing: 12 inches. Open bottom casing.	3561E	843	*130	353	9/24/31	136	0.37	26	296	62	392	22	144	52	92
					1064	6/15/32	132	0.35	24	296	62	383	25	144	50	83
A-57-F-1	Calabasas School District. Calabasas; 250 feet S. of Ventura Blvd., 1.35 miles SW. of Los Angeles city limits, 150 feet SE. of school building. Use: Domestic. Casing: 12 inches.	3544	1,080	450	1061	6/14/32	77.4	0.45	56	421	55	2	0	41	21	111
A-57a-F-2	Anton Weber. Calabasas; 80 feet N. of Ventura Blvd., 1.22 miles SW. of Los Angeles city limits, 150 feet E. of Calabasas Hotel. Use: Domestic. Casing: 4′ x 4′ dug well.	3544A	1,050	40	1062	6/14/32	191	1.84	70	528	80	460	11	67	38	341
A-57b-F-2	Industrial Fuel Supply Co. Calabasas; 30 feet S. of Ventura Blvd., 0.42 mile W. of Los Angeles city limits. Use: Domestic. Casing: 10 inches. Perforated in bottom 20 feet only; surface water cemented off.	3554	945	353	1063	6/14/32	452	1.98	91	[a]1095	108	1392	50	40	27	1020
A-57c-F-2	Joe Daic. Calabasas; 185 feet S. of Ventura Blvd., 300 feet W. of Los Angeles city limits. Use: Irrigation. Casing: 5 inches; in bottom of 4′ x 4′ pit, 34 feet deep.	3564A	932	75	1065	6/14/32	217	0.58	40	442	71	746	4	146	87	223
A-58d-E-3	Brant Ranch. S. of Owensmouth; 0.25 miles S. of Van Owen St., 0.30 mile E. of Topanga Canyon Road in line of Owensmouth Ave., extended S. Use: Irrigation. Casing: 12 inches.	3590	798	*x246	1069	6/14/32	152	0.29	23	290	38	571	6	160	68	91
A-59a-F-2	Park Moderne. S. of Calabasas; 30 feet E. of El Canyon Road (Old Topanga Canyon Road), 30 feet N. of Dry Canyon Creek, 0.25 miles S. of Los Angeles city limits. Use: Domestic and irrigation. Casing: 10 inches.	3575	980	----	1068	6/14/32	278	0.34	32	516	73	1164	6	288	104	253

TABLE 3. WELLS IN SAN FERNANDO VALLEY—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10[b] at 25°C)	Boron ppm	Percent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
A-62-E-3	B. Vallicculla. E. of Owensmouth; 125 feet W. of Corbin Ave., 0.23 miles S. of Sherman Way. Use: Irrigation. Casing: 12 inches. Perforated 54-68.	3630	753	*x182	1095	6/22/32	163	0.37	25	302	55	565	8	187	55	106
A-62a-E-3	Hugo Carlson. SW. of N. Los Angeles; 25 feet E. of Mason Ave., 100 feet S. of Van Owen St. Use: Domestic. Casing: 8 inches. U. S. G. S. No. C-3.	3620	765	x33	1070	6/15/32	123	0 26	20	342	39	307	6	134	53	63
A-67-E-4	Tarzana Mineral Water. W. of Encino; 350 feet E. of Lindley Ave., 440 feet N. of Ventura Blvd. Use: Bottled mineral water. Casing: 20 inches. Perforated 735-785.	3673	800	*2100	1066	6/15/32	245	0 41	59	430	130	798	Tr.	97	72	360
A-67a-F 4	El Caballero Estates. W. of Encino; 200 feet W. of Enfield Ave. on S. line of Valley Vista Blvd., 1,100 feet E. of Lindley Ave., 2,800 feet S. of Ventura Blvd. Use: Bottled mineral water. Casing: 8 inches and 5 inches. Water coming from 900-foot level between 8-inch and 5-inch casings.	3674	835	1500	([k])	7/23/31	--------	--------	81	398	72	728	0	43	28	[d]444
					1067	6/15/32	232	0.48	79	473	73	718	0	44	34	428
A-70-E-5	Frank P. Ghigila. W. of Van Nuys; 40 feet S. of Victory Blvd., 900 feet W. of Havenhurst Ave. Use: Irrigation. Casing: 16 inches. Perforated 203-222.	3701	720	*x283	1071	6/15/32	153	0.39	25	330	57	493	44	184	57	107
A-70b-E-5	Art. Robinson, Well 1. W. of Van Nuys; 20 feet S. of Oxnard Ave., 90 feet E. of Havenhurst Ave. Use: Irrigation. Casing: 14 inches. Perforated 53-64; 179-188; 209-215; 329-336; 339-353. Water has strong odor of H_2S.	3701A	705	*362	352	9/24/31	126	1.12	56	336	80	268	6	70	29	173
A-70c-E-5	Art. Robinson, Well 2. W. of Van Nuys; 50 feet S. of Oxnard Ave., 75 feet E. of Havenhurst Ave. Use: Irrigation. Casing: 12 inches. Perforated 54-68.	3701B	705	*80	1073	6/15/32	224	0.47	23	278	64	1015	23	291	85	151
A-71a-E-5	G. Rizzo. N. of Encino; 55 feet N. of Magnolia Blvd., 0.20 miles E. of Balboa Ave. Use: Irrigation. Casing: 14 inches.	3703	723	(x)	1074	6/15/32	80.9	0.10	16	324	34	110	18	87	38	32
A-73a-E-5	A. Nicholls. SW. of Van Nuys; 15 feet S. of Oxnard St., 15 feet W. of Sepulveda Blvd. Use: Irrigation. Perforated 54-66; 159-180.	3732A	703	*190	351	9/24/31	150	0.25	27	244	73	516	12	159	55	104
A-73e-E-5	Robert Schmidt. SW. of Van Nuys; 120 feet S. of Oxnard St., 0.2 miles E. of Sepulveda Blvd. Use: Domestic. Casing: 6 inches. Perforated 44-51.	3732C	697	*58	1075	6/15/32	104	0.48	38	357	34	202	23	97	27	99
A-76d-E-6	W. P. Whitsett. SE. of Van Nuys; 0.10 miles N. of Oxnard St., 0.10 miles W. of Fulton Ave. Use: Irrigation. Casing: 14 inches. Perforated 228-242; 248-256; 267-286; 323-340; 406-413.	3771A	691	*424	1076	6/15/32	116	0.17	26	235	48	365	4	119	43	75
A-77e-F-6	McKinley School for Boys. SE. of Van Nuys; 1,300 feet W. of Woodman Ave., 1,300 feet N. of Riverside Drive. Use: Irrigation. Casing: 20 inches. Perforated below 20 feet from ground surface.	3763B	650	285	1096	6/22/32	151	2.45	82	418	142	219	0	28	18	294
A-78f-E-6	W. F. Ziegler. E. of Van Nuys; 15 feet S. of Victory Blvd., 0.24 miles W. of Whitsett Ave. Use: Irrigation. Casing: 12 inches.	3791A	700	---------	1077	6/14/32	150	0.22	26	223	39	598	15	178	49	103
A-80d-E-7	City of Los Angeles, Well 13. NW. of North Hollywood; 60 feet S. of Van Owen St., 135 feet W. of Beck Ave. Use: Municipal.	3810A	712	---------	348	9/24/31	33 1	0 15	25	177	7	29	2	38	12	22
					1097	6/22/32	35 8	0 14	22	174	9	27	2	41	12	20
A-80e-E-7	City of Los Angeles, Well 5. NW. of North Hollywood; 255 feet N. of Van Owen St., 60 feet E. of Hinds Ave. Use: Municipal.	3810B	720	---------	([l])	7/27/28	35.9	0.11	33	183	7	27	--------	50	([c])	[d]29
					([l])	8/ 3/28	37.3	0 14	38	195	8	28	--------	50	([c])	[d]35
					([l])	8/10/28	35 3	0 12	40	215	6	33	--------	52	([c])	[d]41
					([l])	8/17/28	36.5	0.13	31	195	16	26	--------	58	([c])	[d]30
A-80h-E-7	O. L. Anderson. NW. of North Hollywood; 125 feet N. of Erwin St., 500 feet W. of Lankershim Blvd. Use: Domestic.	3811A	679	96	1152	7/19/32	43.1	0.07	17	186	18	35	7	55	12	18
A-81k-E-7	North Hollywood Park Dept. W. of North Hollywood; 150 feet E. of Beck Ave., 175 feet S. of Chandler Blvd. Use: Irrigation and domestic. Gravel 52-90; 117-130.	3813A	635	*132	349	9/24/31	122	0 24	31	226	44	408	9	123	35	96
					1078	6/15/32	121	0 27	30	232	48	400	6	125	38	91
A-84f-E-7	Polar Water Co. North Hollywood; 100 feet S. of Burbank Blvd., 0.15 miles W. of Cahuenga Blvd. Use: Bottled water.	3832D	618	---------	1153	7/19/32	43 1	0.08	21	189	12	30	11	53	12	23

TABLE 3. WELLS IN SAN FERNANDO VALLEY—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Percent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
A-86d-E-7	City of Burbank, New Well 6. Burbank; 55 feet S. of Jeffries Ave., 90 feet E. of Maple St., 50 feet E. of Old Well 6. Use: Municipal. Casing: 20 inches. Perforated 135-186; 203-220; 269-285; 310-335; 389-394; 412-420; 445-453.	3841C	632	*x472	(f)	4/28/31	...	...	...	214	14	b35	...	...	...	...
					1079	6/15/32	43.7	0.14	22	204	6	51	2	49	15	23
A-87-E-7	City of Burbank, Well 5. Burbank; 200 feet S. of Chatsworth Branch of S. P. R. R., 100 feet E. of Rose St. Use: Municipal.	3843	590	(x)	(f)	4/28/31	...	...	...	189	12	b21	...	...	...	...
A-88-F-8	F. G. Locke. SW. of Burbank; 40 feet W. of Hollywood Way, 50 feet S. of Rowland Ave. Use: Domestic. Casing: 8 inches. Gravel 38-51.	3855	546	*x51	350	9/24/31	57.3	0.11	19	232	16	61	22	72	17	27
					1080	6/15/32	58.2	0.09	18	235	16	66	31	75	17	25
A-88g-F-7	Lakeside Golf Club. S. of North Hollywood; 200 feet W. of Valley Spring Lane, 35 feet W. of Areola Ave., extended. Use: Irrigation. Casing: 16 inches. Perforated 30-127.	3845A	560	*140	1154	7/19/32	110	0.19	27	274	34	310	27	127	35	80
A-93-E-8	City of Burbank, Well 1. Burbank; 45 feet W. of Lake St., 93 feet S. of Magnolia Blvd. Use: Municipal. Casing: 12 inches.	3882B	560	(x)	(f)	4/28/31	...	...	...	207	11	b23	...	...	...	...
A-93d-E-8	City of Burbank, Well 2. Burbank; 50 feet W. of Lake St., 143 feet S. of Magnolia Blvd. Use: Municipal. Casing: 18 inches.	3882D	560	162	(f)	4/28/31	...	...	...	214	12	b40	...	...	...	...
A-93e-E-8	City of Burbank, Well 3. Burbank; 25 feet E. of Lake St., 135 feet S. of Magnolia Blvd. Use: Municipal. Casing: 16 inches. Perforated 62-97; 126-140; 150-164.	3882E	560	169	(f)	4/28/31	...	...	...	214	13	b20	...	...	...	...
					347	9/24/31	44.4	0.12	19	220	14	25	9	51	16	21
A-93f-E-8	City of Burbank, Well 4. Burbank; 33 feet E. of Lake St., 200 feet S. of Magnolia Blvd. Use: Municipal. Casing: 16 inches.	3882F	560	228	(f)	4/28/31	...	...	...	232	15	b20	...	...	...	...
A-93g-E-8	J. S. Harris. Burbank; 15 feet E. of Mariposa St., 700 feet N. of Alameda Ave. Use: Irrigation. Casing: 16 inches.	3883	525	x90	1098	6/22/32	55.0	0.08	18	226	28	24	23	64	17	24
A-95b-E-9	City of Glendale, Grandview Well 1. Glendale; 50 feet SW. of San Fernando Road, 200 feet NW. of Grand View Ave. Use: Municipal. Casing: 16 inches. Gravel 79-88; 178-189; 250-283; 380-412; 433-500.	3913	469	*x500	345	9/23/31	53.4	0.21	...	210	36	...	...	...	...	...
					1081	6/13/32	51.7	0.21	33	210	28	43	1	51	12	41
A-96a-F-9	City of Los Angeles, Griffith Park Well 1. E. of Glendale; 210 feet S. of Riverside Dr., 450 feet S. of Los Angeles River, 2.82 miles NE. along Riverside Dr. from Los Feliz Road. Use: Irrigation. Casing: 20 inches. Perforated 40-160; 190-261.	3914	452	*294	1086	6/13/32	65.6	0.25	29	217	25	126	8	67	18	46
A-96d-F-9	City of Glendale, Well 12. Glendale; 150 feet NE. of Lake St., 40 feet SE. of Paula Ave. Use: Municipal. Casing: 18 inches. Perforated 155-184; 188-260; 266-402; 414-466. Slight H_2S odor.	3914C	467	*x534	344	9/23/31	49.0	0.14	30	217	18	54	4	49	17	37
					1084	6/13/32	52.0	0.20	34	217	25	58	2	46	13	41
A-96e-F-9	City of Los Angeles, Griffith Park Well 2. E. of Glendale; 800 feet W. of Riverside Dr., 1,100 feet W. of Los Angeles River, 1.95 miles NE. along Riverside Dr. from Los Feliz Road. Use: Irrigation. Casing: 16 inches. Perforated 22-73; 80-88.	3915	446	*151	1085	6/13/32	81.9	0.33	29	235	34	173	11	87	23	58
A-97L-F-9	Forest Lawn Cemetery Assn., Well 2. S. of Glendale; 17 feet E. of Glendale Ave., 200 feet N. of San Fernando Road. Use: Irrigation. Casing: 16 inches. Gravel 76-121; 166-179.	3947A	438	*179	1082	6/13/32	46.3	0.09	25	210	21	24	11	42	19	28
A-98-E-10	City of Glendale, Glorietta Well 4. NE. of Glendale; 150 feet S. of Ramona Ave., 340 feet E. of Hermosita Dr. Use: Municipal. Casing: 16 inches. Gravel 90-99; 108-133; 165-185.	3961	965	*x189	337	9/23/31	30.9	0.06	24	155	9	12	6	29	13	18
					1083	6/13/32	31.2	0.06	21	156	7	8	7	29	13	15

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Calcium and Magnesium determined together and calculated to equivalent quantity of Calcium.
[d] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[e] Analysis by Santa Paula Citrus Fruit Association Chemical Laboratory, Santa Paula, California.
[f] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[g] Analysis by Charles D. Samuels, Ph. D., Covina, California.
[h] Analysis by J. H. Parsons Chemical Company.
[i] Analysis by Dearborn Laboratories.
[j] Analysis by General Petroleum Corporation of California.
[k] Analysis by Los Angeles Testing Laboratory, Los Angeles.
[l] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Percent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1d-E-11	Valley Water Co., Well 3. La Canada; 675 feet N. of Michigan Blvd., 90 feet E. of Hampton Road. Use: Domestic and irrigation. Casing: 20 inches. Gravel 239-257; 259-280; 282-300; 375-380; 437-439; 570-591. U. S. D. A. analysis on 10/23/31 is duplicate of D. W. R. Lab. No. 481.	4010C	1177	*x591	481 (a)	10/23/31 10/23/31	35.5 35.3	0.12 0.18	25 22	183 195	12 11	10 6	4 4	37 37	13 12	22 c19
C-6-E-11	City of Pasadena, Windsor Well. Altadena; 600 feet SE. of intersection of Mountain View St. and Windsor Ave. Use: Municipal. Casing: 26 inches in 150-foot pit. Perforated 353-359; 474-478; 498-503; 534-543.	4030C	1151	*x573	(d)	4/27/31	-------	-------	-------	183	12	b10	-------	-------	-------	-------
C-15a-F-11	City of Pasadena, Copelin No. 4 Motor, 2d well. Pasadena; 150 feet N. of Manzanita St., 100 feet E. of Mentone Ave. In same shaft as C-15-F-11. Use: Municipal. Casing: 14 inches. Gravel 167-384; 550-564.	4043C	918	*x684	(c)	Oct., 1918	-------	-------	27	146	17	33	16	30	11	c20
C-17-F-11	City of Pasadena, Sunset Ave. Well. Pasadena; 200 feet NW. of Mountain St., 20 feet NE. of Manzanita Ave., 300 feet W. of intersection of Sunset Ave. and Mountain St. Use: Municipal. Casing: 26 inches in 70-foot pit. Perforated 245-325; 334-390; 396-415; 434-447; 472-483; 509-525; 535-543; 555-613; 671-728.	4043B	934	*x751	(d)	4/27/31	-------	-------	-------	171	11	b12	-------	-------	-------	-------
C-20-F-11	City of Pasadena, Brookside Well. Pasadena; 400 feet N. of Linda Vista Ave., 300 feet W. of Arroyo Terrace, 100 feet E. of S.E. corner of plunge fence. Use: Not used, formerly municipal. Casing: 18 inches in 84-foot pit. W. S. P. 219, No. 466, Pasadena Quadrangle.	4034B	774	*x101	(c)	Oct., 1918	-------	-------	28	156	26	30	17	38	12	c26
C-22-F-11	City of Pasadena, Garfield Well. Pasadena; 500 feet N. of Villa St., 100 feet W. of Euclid Ave., extended. Use: Municipal. Casing: 24 inches in 167-foot pit. Perforated 192-257; 295-327; 355-360; 387-419; 602-620; 624-629. U. S. D. A. analysis on 10/23/31 is duplicate of D. W. R. Lab. No. 479.	4054	899	*x720	(d) 479 (a)	4/27/31 10/23/31 10/23/31	------- 27.0 27.0	------- 0.22 0.27	------- 34 23	110 113 125	13 9 12	b18 20 20	------- 9 8	------- 23 24	------- 9 13	------- 23 c15
C-23d-G-11	City of South Pasadena, Arroyo Well 2. South Pasadena; N. 73° E., 1,650 feet from east end of Mission St. Arroyo Seco Bridge. Use: Proposed municipal. Casing: 16 inches. Perforated 22-102.	4028	580	*135	485	10/23/31	46.4	0.06	18	165	28	48	11	50	19	21
C-24a-F-11	City of South Pasadena, Alerton Well. South Pasadena; 116 feet W. of Fairview Ave., 420 feet S. of Columbia Ave. Use: Municipal. Casing: 16 inches. Perforated 82-150.	4047B	757	*195	(d)	8/31/31	-------	-------	-------	225	38	b38	-------	-------	-------	-------
C-30e-F-11	City of Pasadena, Alpine Well. Pasadena: 30 feet E. of Euclid Ave., at end of Alpine St. Use: Municipal. Casing: 18 inches. Perforated 60-90; 100-160; 170-275.	4057L	755	*x285	(d) 483	4/27/31 10/23/31	------- 33.5	------- 0.07	------- 27	165 165	13 12	b20 17	------- 7	------- 36	------- 12	------- 23
C-37-E-11	Rubio Canyon Land and Water Assn., Figueroa St. Well 4. Altadena; 230 feet N. of Figueroa St., 200 feet E. of Crescent Ave. Use: Irrigation and domestic. Casing: 26 inches. Gravel 195-325; 335-347; 480-485; 548-553.	4041B	1151	*x650	480	10/23/31	23.9	0.02	32	119	7	4	9	22	7	19
C-39-E-12	Oak Park Water Co. Altadena; 50 feet S. of New York Ave., 1,000 feet W. of Santa Anita Ave. Use: Domestic. Casing: 14 inches. Gravel 240-280; 315-330. W. S. P. 219, No. 82, Pasadena Quadrangle.	4092	1010	*x386	482	10/23/31	27.1	0.25	23	140	7	8	4	30	11	16
C-44-F-12	City of Pasadena, Craig Well. Pasadena; 150 feet S. of Paloma St., 600 feet W. of Craig Ave. NE. well of two. Use: Municipal. Casing: 26 inches, in deep pit. Perforated 270-303; 310-319; 324-386; 434-535; 550-589; 593-623; 635-690; 717-753; 793-803; 807-822; 850-906; 925-931; 949-968; 1005-1009; 1022-1038; 1051-1055. W. S. P. 219, No. 83, Pasadena Quadrangle.	4094	878	*x1089	(d)	4/27/31	-------	-------	-------	140	11	b14	-------	-------	-------	-------
C-45a-F-12	City of Pasadena, Madre Well (formerly A. B. Chapman Estate, Well 5). Pasadena; 400 feet N. of Colorado St., 1,700 feet E. of Eaton, Wash. Use: Municipal. Casing: 8 inches. Perforated 111-119; 179-200; 356-364; 412-417.	4115A	698	*x425	(c)	Oct., 1918	-------	-------	14	183	9	13	3	41	9	c10
C-49-F-12	San Gabriel Valley Water Co., Well 10-1921-B. Pasadena; 20 feet W. of Santa Anita Ave., 55 feet S. of Oswego St. S. well of two. Use: Domestic and irrigation. Casing: 16 inches. Gravel 137-159; 160-175; 192-206; 218-220; 231-238; 249-274; 277-284; 297-299; 322-368.	4105	720	*x399	(c)	Oct., 1918	-------	-------	28	134	12	24	7	25	11	c19

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance ($K \times 10^5$ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-56-F-12	City of Alhambra, Well 25 (new). Pasadena; 800 feet W. of Kewen Drive, 25 feet N. of Canyon Drive. Use: Municipal. Casing: 18 inches in shallow pit in east end of pump house. Perforated 80-112; 119-157; 160-182.	4067	709	*x234	121 (d)	7/13/31 7/20/31	37.2	....	38	162 154	18 24	28 b31	7	33	10	35 .....
C-62-F-12	City of Alhambra, Well 0 Turbine. San Marino; 5 feet E. of Kewen Drive, 150 feet S. of Canyon Drive. Use: Municipal. Casing: 18 inches. Perforated 108-114; 139-154; 204-274; 280-290.	4067C	667	*x300	(d)	7/20/31	.....	.....	.....	140	16	b10	.....	.....	.....	.....
C-65-F-12	City of Alhambra, Well 11A. San Marino; 25 feet N. of Mill Lane, 0.25 miles E. of old adobe mill, 300 feet E. of St. Albans Road, 200 feet W. of Virginia Ave. In west end of pump house. Use: Municipal. Casing: 18 inches. Perforated 43-47; 170-182; 187-195; 200-212; 242-251; 278-305; 323-332; 375-383.	4077	592	*x428	119 (d)	7/13/31 7/20/31	33.8	....	48	159 161	13 15	14 b12	8	29	6	41 .....
C-66-F-12	San Gabriel County Water District, Well 1. San Marino; 100 feet W. of Santa Anita Road, 500 feet S. of Robles Ave. Casing in east end of pump house. Use: Domestic and irrigation.	4107C	605	(x)	(d)	7/20/31	.....	.....	.....	122	16	b12	.....	.....	.....	.....
C-72a-F-12	W. L. Stewart, Well 1. San Marino; 500 feet E. of San Gabriel Blvd., 600 feet N. of Lombardy Road. Use: Irrigation. Gravel 80-92; 112-124; 254-274; 326-338; 360-374; 434-544.	4106D	657	*577	(e)	Jan., 1920	.....	.....	.....	a115	18	.....	.....	.....	.....	.....
C-74a-F-12	Thomas Frost. Pasadena; N. side of San Pasqual St., 700 feet E. of Santa Anita Ave. Use: Irrigation. Casing: 14 inches. Gravel 68-128; 202-298; 250-260; 330-400.	4106B	678	*404	(e)	Jan., 1920	.....	.....	.....	a115	15	.....	.....	.....	.....	.....
C-79-F-13	City of Pasadena, Chapman Well (formerly A. B. Chapman Estate, Well 1). E. of Pasadena; 200 feet S. of Foothill Blvd., 850 feet E. of Sierra Madre Villa Ave., at dome reservoir. Use: Municipal. Perforated 126-140; 194-226; 348-354; 370-400.	4125A	700	*x570	(e)	Oct., 1918	.....	.....	1	189	9	22	1	38	16	c1
C-87-F-13	City of Monrovia, Well 6. W. of Arcadia; 300 feet W. of Sierra Madre Ave. (W. line of Santa Anita Rancho), 100 feet N. of Mohawk St. West well. Use: Municipal. Casing: 26 inches.	4135	625	*x476	279	9/ 2/31	34.0	0.30	18	189	7	12	2	37	12	15
C-99-F-13	City of Sierra Madre, Well 2. Sierra Madre; 0.45 miles W. of Santa Anita Ave., 300 feet N. of Central Ave. Use: Municipal. Casing: 26 inches. Gravel 260-298; 373-390.	4163A	692	*x446	(d)	7/15/31	.....	.....	.....	188	14	b15	.....	.....	.....	.....
C-101-F-13	City of Arcadia, Well 1. Arcadia; 700 feet W. of Santa Anita Ave., 100 feet N. of Orange Grove Ave. SE. well in group. Use: Municipal. Casing: 22 inches. Gravel 183-210; 212-216; 221-223; 280-290; 296-390; 394-432; 434-464.	4164	602	*x404	107 (d)	7/ 2/31 7/24/31	37.7	....	66	162 171	14 17	35 b25	6	12	7	54 .....
C-104-F-13	City of Arcadia, Well 4. Arcadia; 700 feet W. of Santa Anita Ave., 300 feet N. of Orange Grove Ave. NE. well of group. Use: Municipal. Casing: 24 inches. Perforated 140-194; 220-490.	4164C	611	*x490	(f) (d)	8/17/25 7/24/31	....	....	21	154 193	14 15	18 b23	....	35	1	c17 .....
C-104b-F-13	City of Arcadia, Well 2a. Arcadia; 315 feet N. of Orange Grove Ave., 385 feet W. of Santa Anita Ave. Use: Municipal. Casing: 24 inches. Gravel 153-194; 226-246; 264-292; 380-406; 408-430; 432-450; 470-478; 484-502.	4164D	600	*x530	(d)	7/24/31	.....	.....	.....	181	17	b50	.....	.....	.....	.....
C-109-G-12	San Gabriel Valley Water Co., Well 125 (Richardson Well). Pasadena; 40 feet E. of Oak Knoll Ave., 60 feet N. of Huntington Garden Drive, extended. Second well in bottom of 60-foot pit, north pump house of two. Use: Domestic and irrigation. Casing: 12 inches. W. S. P. 219, No. 467, Pasadena Quadrangle.	4068A	649	x200	(e)	Oct., 1918	.....	.....	32	a189	21	41	14	42	13	c34
C-117a-F-12	San Gabriel Valley Water Co., Walnut St. Plant, Well 1928. Pasadena; 200 feet S. of Walnut St., 100 feet E. of Huntington Drive. Use: Irrigation and municipal. Casing: 24 inches. Perforated 638-674.	4095	754	*x690	(d)	7/20/31	.....	.....	.....	132	15	b10	.....	.....	.....	.....
C-119-F-12	San Gabriel Valley Water Co., Well 1917. San Marino; 25 feet E. of Canterbury Road, 35 feet S. of Lombardy Road. Use: Domestic and irrigation. Casing: 18 inches. Perforated 127-160; 170-260; 323-370.	4096A	670	*x385	(d)	7/20/31	.....	.....	.....	122	17	b10	.....	.....	.....	.....
C-122-F-12	San Gabriel Valley Water Co., Well 59. San Marino; 450 feet S. of Robles Ave., 200 feet W. of Santa Anita Ave., produced south. On east side of wash. Use: Domestic and irrigation, not used since 1927. Casing: 16 inches, in deep pit, in south end of pump house.	4107	620	x430	(e)	Oct., 1918	.....	.....	40	128	15	16	23	30	4	c29

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium: Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-122a-F-12	San Gabriel County Water District, Well 4. San Marino; 150 feet E. of Santa Anita Ave., 200 feet S. of Robles Ave. NW. well of group. Use: Domestic and irrigation. Casing: 24 inches.	4107B	623	x496	(d)	7/20/31	------	------	------	107	16	b10	------	------	------	------
C-124-F-12	San Gabriel Valley Water Co., Patton Well 1923. Pasadena; 800 feet E. of Oak Grove Ave., 150 feet S. of Arden Road, 250 feet E. of Wilson Ave. Casing in N. end of pump house, 100 feet E. of old well. Use: Formerly domestic and irrigation. Casing: 18 inches. Gravel 134-142; 218-225; 326-330; 401-410; 173-179; 296-298; 363-369; 421-457.	4076B	726	*x501	(d)	7/20/31	------	------	------	151	18	b12	------	------	------	------
C-124a-F-12	San Gabriel Valley Water Co., G. S. Patton—old well. Pasadena; 150 feet S. of Arden Road, 150 feet E. of Wilson Ave., 100 feet W. of C-124-F-12. Under booster pump house at SE. corner of reservoir. Use: Not used, formerly irrigation and domestic. Casing: 24 inches. Perforated 114-116; 138-140; 158-170; 180-200; 246-248; 338-352; 368-380; 388-430.	4076C	725	*x430	(c)	Oct., 1918	------	------	31	159	21	25	24	33	10	c26
C-127-F-11	City of Pasadena, Villa St. Well. Pasadena; at S. end of Villa St. reservoir, just NW. of intersection of Villa St. and Euclid Ave. Use: Municipal. Casing: 26 inches in 210-foot concrete pit. Perforated 212-364; 374-426; 450-468; 476-492; 518-523; 527-564; 595-612; 624-638; 729-741; 794-840; 874-879.	4054A	890	*x953	(d)	4/27/31	------	------	------	128	13	b16	------	------	------	------
C-130-F-13	City of Sierra Madre, Well 1. Sierra Madre; 2,000 feet W. of Santa Anita Ave., 100 feet N. of Central Ave. Use: Municipal. Casing: 26 inches. Gravel 212-241; 285-355; 363-376; 425-459. W. S. P. 219, No. 258, Pasadena Quadrangle.	4163	674	*x459	(d)	7/15/31	------	------	------	161	15	b23	------	------	------	------
C-131-F-12	San Gabriel Valley Water Co., Oak Knoll 2 (Well 1921a). Pasadena; 125 feet E. of Oak Knoll Ave., 50 feet N. of P. E. Ry. E. well of two. Use: Domestic and irrigation. Casing: 18 inches. Gravel 117-130; 153-159; 165-178; 208-279.	4066D	739	*x300	(d)	7/20/31	------	------	------	166	18	b10	------	------	------	------
C-201a-G-12	City of Alhambra, Longden Ave. Well. N. of San Gabriel; 100 feet E. of Rubio Wash, 325 feet N. of Longden Ave. Use: Municipal. Casing: 26 inches. Perforated 296-336; 346-389; 412-437; 446-480; 482-563; 680-731; 735-778.	4108	502	*x801	117 (d)	7/13/31 7/20/31	31.4 ------	------ ------	41 ------	131 134	13 22	16 b25	18 ------	25 ------	10 ------	32 ------
C-202-G-12	Alice H. Graves. San Marino; 175 feet NW. of Huntington Drive, 70 feet SW. of El Molino Ave., 10 feet S. of reservoir near E. end. Use: Municipal. City of Alhambra purchases water. Casing: 18 inches. Gravel 199-230; 278-308; 314-353; 401-413; 434-481.	4068	560	*x505	120 (d)	7/13/31 7/20/31	42.6 ------	------ ------	25 ------	143 151	34 35	21 b15	21 ------	42 ------	16 ------	26 ------
C-204-G-12	City of South Pasadena, Wilson Well 2. San Gabriel; 110 feet W. of Bradbury Drive, 275 feet S. of Adelyn Drive. Use: Municipal. Casing: 26 inches. Perforated 222-280; 300-310; 330-430; 440-525; 560-657; 663-693.	4099	479	*x720	116 (d)	7/13/31 8/31/31	39.6 ------	------ ------	27 ------	174 195	16 21	23 b37	18 ------	37 ------	19 ------	29 ------
C-206-G-12	City of Alhambra, Garfield Well 1. Alhambra; 90 feet W. of Garfield Ave., 25 feet S. of McLean St. Use: Municipal. Casing: 18 inches. Perforated 237-265; 276-325; 340-353; 375-471; 483-496.	4069	535	*x560	118 (d)	7/13/31 7/20/31	45.0 ------	------ ------	26 ------	149 151	32 40	25 b44	27 ------	43 ------	16 ------	29 ------
C-211a-H-12	City of Monterey Park, Emerson Plant, Well 2. Monterey Park; in center of Emerson Ave., 90 feet W. of McPherrin Ave. East well in pump house. Use: Municipal. Casing: 16 inches. Perforated 122-136; 138-140; 152-166.	2873A	396	*x302	115 (d)	7/13/31 7/20/31	71.1 ------	------ ------	57 ------	232 254	77 90	60 b28	1 ------	32 ------	18 ------	96 ------
C-211e-H-12	Midwick Country Club, South 6th St. Plant, Well 1. Alhambra; 30 feet W. of 6th St., 50 feet S. of Glendon Way. East well of two in underground pump house. Use: Irrigation. Casing: 16 inches. Perforated 150-182; 194-198.	2872A	412	*x412	229	8/13/31	42.5	------	37	180	30	18	16	33	16	39
C-211j-H-12	City of Monterey Park, Garvey Ave. Plant 2. East of Monterey Park, 200 feet W. of Delta St., 230 feet S. of Garvey Ave. W. of Plant 1. Use: Municipal. Casing: 16 inches. Gravel 209-249; 388-422.	2913	262	*x450	(d)	7/20/31	------	------	------	195	38	b12	------	------	------	------
C-213b-H-13	Potrero Heights Water Co., Well 2. S. of San Gabriel; 0.31 miles S. of Rush Ave., 403 feet W. of Walnut Grove Ave. Use: Not used. Gravel 94-97; 176-197; 286-309; 407-420; 491-513.	2915B	231	*518	(c)	Oct., 1918	------	------	46	238	42	17	0	40	13	c59
C-213c-H-12	City of Monterey Park, Garvey Ave. Plant 1. E. of Monterey Park; 50 feet W. of Delta St., 230 feet S. of Garvey Ave., E. of Plant 2. Use: Municipal. Casing: 16 inches. Gravel 209-249; 388-422.	2913A	262	*x450	114 (d)	7/13/31 7/20/31	47.6 ------	------ ------	26 ------	189 180	34 28	13 b13	21 ------	46 ------	18 ------	30 ------

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10^6 at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-214-G-13	Mr. Longly. E. of Temple; 20 feet W. of El Monte Ave., 20 feet S. of Palm Drive. Deep pit. Use: Irrigation. Gravel 141-161; 169-177; 228-232; 385-387; 408-409; 451-459.	4168	369	*x477	278	9/ 2/31	42.6	0.22	20	210	14	14	13	45	18	21
C-223L-G13	Driftwood Dairy. N. of El Monte; 170 feet S. of Lower Azusa Road, 600 feet W. of Rio Hondo Bridge, 350 feet E. of El Monte Ave. Use: Domestic and irrigation. Casing: 10 inches.	2960A	302	x142	274	9/ 2/31	39.4	0.20	28	192	13	12	13	42	7	24
C-233e-H-13	E. Van Imschoot. S. of El Monte; 183 feet W. of Hoyt St., 235 feet N. of Garvey Road. Use: Irrigation. Casing: 7 inches. Perforated 65-70.	2953F	266	x73	280	9/ 2/31	50.6	0.02	13	247	16	30	11	66	19	17
C-238i-H-13	A. Alluis. S. of El Monte; 55 feet S. of Durfee Road, 0.46 miles SW. of Slack Ave. Use: Domestic. Casing: 7 inches. Perforated 40-46.	2956D	230	*x50	271	9/ 2/31	50.7	0.03	11	253	11	35	13	72	17	14
C-243-F-14	Beardsley Water Ditch Co. S. of Monrovia; 20 feet W. of Mountain Ave., 600 feet S. of Euclid Ave. Use: Irrigation. Gravel 90-100; 163-183; 229-257; 273-333; 348-352.	4217	413	*x352	247	8/21/31	43.0	-------	14	[a]241	9	21	4	59	17	17
C-243b-F-14	City of Monrovia, Lower Norumbega Well. Monrovia; 150 feet NE. of Norumbega Drive crossing over Sawpit Creek. Use: Municipal. Casing: 6′x 6′ wooden pit to tunnel under creek.	4203	785	x80	([d])	7/15/31	-------	-------	-------	332	27	[b]35	-------	-------	-------	-------
C-243e-E-14	City of Monrovia, Upper Norumbega Well. Monrovia; pump house on E. bank of Sawpit Creek, 0.3 miles NW. from Norumbega Drive crossing of Sawpit Creek. Casing: 8′ x 8′ pit to tunnel under creek.	4203A	850	x70	([d])	7/15/31	-------	-------	-------	312	23	[b]33	-------	-------	-------	-------
C-245-G-14	City of Monrovia, San Gabriel Well 1. S. of Monrovia; 400 feet E. of Peck Road, 200 feet N. of road running along ranch line about 0.5 miles N. of Live Oak Ave., 90 feet N. of C-245a-G-14. Use: Municipal. Casing: 26 inches. Perforated 73-132; 136-180; 182-214; 217-350; 374-420.	4198	368	*x440	([f])	8/ 3/25	-------	-------	6	187	8	-------	-------	40	12	[c]7
C-245a-G-14	City of Monrovia, San Gabriel Well 2. S. of Monrovia; 400 feet E. of Peck Road, 110 feet N. of road running along ranch line, 0.5 miles N. of Live Oak Ave., 90 feet S. of C-245-C-14. Use: Municipal. Casing: 26 inches. Gravel 74-132; 135-177; 183-200; 220-246; 265-300; 310-330; 379-430.	4198E	368	*x470	281	9/ 2/31	36.7	0.01	16	207	7	10	9	44	16	15
C-255b-H-14	Mountain View School. SE. of El Monte; 320 feet SE. of Mountain View Road, 972 feet SW. of Valley Blvd. Use: Domestic and irrigation. Casing: 7 inches. Gravel 8-15; 37-41; 47-49; 81-95.	2973L	283	*95	277	9/ 2/31	40.4	0.02	13	223	4	24	6	56	14	14
C-267-H-14	P. Briano. SE. of El Monte; 250 feet NW. of Workman Mill Road, 0.85 miles SW. of Central Ave. Use: Domestic and irrigation. Casing: 7 inches. Gravel 20-76; 87-103.	2986	319	*x103	275	9/ 2/31	59.7	0.07	48	214	36	78	3	44	13	71
C-268L-I-13	Pico County Water District. S. of El Monte; 0.56 miles E. of Durfee Road, 40 feet S. of Syphon Road, in Whittier Narrows. Use: Irrigation. Casing: 8 inches. Perforated 48-73; 88-97.	2947F	212	*101	428	10/13/31	34.8	0.05	12	192	4	24	2	48	12	10
C-280-F-15	Duarte Mutual Water Co., Las Lomas Well. E. of Monrovia, 100 feet S. of P. E. Ry., 100 feet W. of Las Lomas Ave., at Las Lomas Station. Use: Irrigation. Casing: 26 inches. Perforated 90-270.	4255E	591	*x297	246	8/21/31	41.9	-------	15	[a]225	9	28	4	56	16	17
C-297b-G-15	South Baldwin Park. Baldwin Park; 125 feet NE. of Merced Ave., 350 feet NW. of Covina Blvd. Use: Irrigation.	3022	350	x160	250	8/21/31	49.4	-------	11	241	16	15	29	68	16	13
C-304d-H-15	La Puente Water Co., Well 2. S. of Baldwin Park; 0.49 miles NE. of Merced Ave., 57 feet NW. of Willow Ave. Use: Irrigatioo. Perforated 81-113; 135-153; 163-219; 237-273.	3052	364	*273	253	8/21/31	42.1	-------	18	210	13	19	18	50	16	19
C-311e-H-15	Anthony Fickeworth. S. of Baldwin Park; 60 feet S. of Fairgrove Ave., 180 feet E. of Glendora Ave. Use: Domestic. Casing: 7 inches. Perforated 138-141; 189-193.	3055L	334	*200	254	8/21/31	62.3	-------	31	217	30	94	9	62	18	47
C-325c-F-16	Glendora Consolidated Mutual Irrigating Co., Azusa Plant. North Well. N. of Azusa; 2,700 feet N., 78° W. of Intersection of Sierra Madre Ave. and San Gabriel Road. North well of two.	4285F	675	---------	210	8/12/31	35.0	-------	13	192	4	24	1	48	14	13
C-335a-G-16	Glendora Consolidated Mutual Irrigating Co., Vosberg Plant. Azusa, 0.7 miles W. of Azusa Ave., 450 feet S. of First St. Use: Irrigation. Casing: 26 inches. Gravel 252-500.	4287A	531	*x500	215	8/12/31	47.6	-------	13	217	13	26	21	65	14	16

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-336-G-16	Glendora Independent Water Co., Well 2. S. of Azusa; 0.88 miles E. of Irwindale Ave., 350 feet S. of Bonita Ave. (Arrow Highway). Use: Domestic and irrigation. Casing: 20 inches, in S. end of pump house. Gravel 163-283; 291-305; 307-396; 398-406.	4289	471	*x411	245	8/21/31	48.7	.....	18	232	9	27	27	58	18	23
C-338-G-16	City of Covina, Well 1. Covina; 450 feet S. of Covina Blvd., 400 feet W. of 4th St., in Covina City Park. Use: Municipal plunge and Park. Casing: 16 inches. Perforated 387-390; 417-451; 480-495.	3101	533	*x548	(d) 360	7/22/31 9/26/31	..... 40.3	..... 0.08	 23	166 171	17 14	[b]10 22	 22	 39	 16	 22
C-343-H-16	A. R. Evans. S. of Covina; 50 feet W. of Hollenbeck Ave., 500 feet N. of Arroyo Dr. S. well of two. Use: Irrigation and domestic. Casing: 16 inches. Perforated 222-234; 383-386; 480-497.	3102	487	*x505	(e)	Aug., 1918	.....	.....	41	226	23	54	11	50	9	[c]51
C-348-H-16	Valencia Water Co., Well 2. SW. of Covina; 20 feet E. of Azusa Ave., 480 feet N. of Service St., 260 feet N. of bridge across Walnut Creek on Azusa Ave. Use: Irrigation. Casing: 16 inches. Perforated 137-140; 226-231; 314-319; 347-350; 381-401; 464-468.	3093	441	*x500	257	8/21/31	55.2	.....	30	229	20	71	7	53	20	41
C-353a-H-16	Valencia Heights Water Co., Well 1. S. of Covina; 230 feet S. Walnut Creek Wash, 0.13 miles E. of Citrus Ave. Use: Irrigation and domestic. Casing: 16 inches. Gravel 153-165; 167-173; 209-223; 311-325.	3113A	470	*475	361	9/26/31	46.8	0.08	26	204	12	42	9	46	18	31
C-357a-I-16	F. H. Amar, Well 1. SE. of Baldwin Park; 280 feet W. of Pass and Covina Road, 0.39 miles S. of Amar Road. Use: Domestic. Casing: 12 inches.	3086	432	*430	256	8/21/31	82.5	.....	23	204	53	128	43	90	25	46
C-364-I-15	Kwis Water Co., Well 2. S. of Puente; 100 feet S. of Gale Ave., 0.25 miles W. from Hacienda Blvd. on west bank of small drain. Use: Irrigation. Casing: 14 inches, in shallow pit in S. end of pump house.	3038	330	x300	(e)	Oct., 1918	.....	.....	34	354	66	166	0	91	37	[c]90
C-365c-H-15	J. C. Pearson, Well 1. SE. of Baldwin Park; 35 feet S. of Merced Ave., 2,350 feet E. of Glendora Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 133-143; 239-245.	3064A	383	*x300	255	8/21/31	49.0	.....	28	204	20	48	11	49	18	35
C-380b-H-15	J. P. Calegan. SW. of Baldwin Park; 475 feet NW. of Sunset Ave., 42 feet SW. of Temple Ave. Use: Irrigation. Casing: 7 inches. Perforated 40-50.	3035L	310	*55	251	8/21/31	82.9	.....	20	[a]354	48	57	43	98	28	43
C-393-G-15	S. M. Walker, Well 3. N. of Baldwin Park; 50 feet W. of N. Maine Ave., 260 feet S. of Bonita Ave. (Arrow Highway). Use: Irrigation. Casing: 20 inches. Gravel 117-223; 225-446.	4239C	425	*x446	248	8/21/31	34.7	.....	11	[a]198	4	17	9	49	13	10
C-399-G-16	City of Covina, Well 2. E. of Covina; 700 feet S. of Cypress Ave., 30 feet W. of Grand Ave. Use: Municipal. Casing: 20 inches. Perforated 335-434.	3120	622	*x575	(d)	7/22/31	.....	.....	.....	166	20	[b]17	.....	.....	.....	.....
C-404-F-17	City of Glendora, Well 2. Glendora; 600 feet N. of Sierra Madre Ave., 150 feet W. of Lorraine Ave. Use: Municipal. Casing: 24 inches. Perforated 498-520; 567-582; 602-635; 660-682.	4355A	968	*x693	(d) 287	7/22/31 9/10/31	..... 58.6	..... 0.09	 19	302 302	18 14	[b]30 49	 2	 66	 26	 30
C-405-F-17	City of Glendora, Well 1. Glendora; 25 feet N. of Sierra Madre Ave., 200 feet W. of Lorraine Ave. Use: Municipal. Casing: 20 inches. Gravel 398-500; 508-514.	4355	950	*x525	(d)	7/22/31	.....	.....	.....	266	17	[b]20	.....	.....	.....	.....
C-406-F-17	Glendora Consolidated Mutual Irrigating Co., Mutual Well 7. Glendora; 1,200 feet E. of Live Oak Ave., 350 feet N. of Leadora Ave., on W. bank of Little Dalton Creek. Use: Irrigation. Casing: 20 inches. Perforated 300-520.	4345A	905	*x520	(e)	Oct., 1918	.....	.....	20	[a]274	18	25	7	58	16	[c]24
C-409-F-17	Glendora Consolidated Mutual Irrigating Co., Irrigation Well 7. Glendora; east well of two on W. bank of Little Dalton Creek at end of Whitcomb Ave., 350 feet E. of Live Oak Ave. Use: Irrigation.	4345	870	x	(e)	Oct., 1918	.....	.....	34	262	15	26	6	56	5	[c]38
C-414-F-17	Glendora Independent Water Co., Well 6. E. of Glendora; 310 feet W. of San Jose Drive, 1,700 feet S. of Foothill Blvd. Casing in shallow pit. Use: Irrigation. Gravel 87-98; 107-135.	4356A	829	*140	(e)	Oct., 1918	.....	.....	27	201	21	37	36	49	18	[c]33
C-437a-G-17	Columbia Land and Water Co., Well 6. S. of Glendora; 600 feet E. of Sunflower Ave., 35 feet N. of Gladstone Ave. Use: Irrigation. Casing: 16 inches. Gravel 157-181; 194-209; 220-233.	4358A	793	*x414	249	8/22/31	47.5	.....	19	210	13	44	18	50	21	23

TABLE 4. WELLS IN UPPER SAN GABRIEL VALLEY—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium: Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-446-G-17	San Dimas Water Co., Lone Hill Well 2. W. of San Dimas; 550 feet S. of Bonita Ave., 30 feet E. of Lone Hill St., in bottom of ravine. Use: Irrigation. Perforated 224-251; 343-356. U. S. D. A. analysis on 8/22/31 is duplicate of D. W. R. Lab. No. 235.	4379	835	*472	235	8/22/31	37.6	--------	31	[a]174	9	30	8	37	13	31
					(g)	8/22/31	38.7	0.13	35	201	9	30	9	38	11	[c]35
C-446e-G-18	San Dimas Water Co. San Dimas; 60 feet S. of A. T. & S. F. Ry., 600 feet W. of Walnut Ave. Use: Irrigation. Casing: 16 inches. Perforated 287-318.	4399	920	*318	99	6/29/31	41.9	0.04	37	165	17	14	16	32	14	37
C-464f-F-19	R. S. Brydon, Well 1. N. of La Verne; 2,200 feet N. from east end of Wheeler-La Verne Road, 800 feet W. of private road running N. from E. end of Wheeler-La Verne Road. Upper well of two. Use: Irrigation. Casing: 18 inches.	4435	1,650	254	(e)	Nov.,1918	--------	--------	34	[a]271	14	22	7	57	9	[c]42
C-464h-F-19	R. S. Brydon. N. of La Verne; 3,500 feet E. of N. end of Wheeler-La Verne Road, 260 feet N. of E. and W. road, 50 feet W. of private road road N. Use: Irrigat on.	4445	1,502	*120	441	10/16/31	45.4	0.04	18	259	9	6	6	54	19	21
C-476e-F-18	F. H. Paine. N. of La Verne; 300 feet northerly along Wheeler-La Verne Road from corner (second turn N. of Base Line Road), thence 150 feet E. to well. Use: Irrigation and domestic. Casing: 12 inches. W. S. P. 219, No. 218, Pomona Quadrangle.	4426C	1,315	*148	439	10/16/31	88.3	Tr.	14	204	41	155	66	106	35	29
C-476f-F-18	B. L. Reynolds. N. of La Verne; 300 feet W. of Wheeler-La Verne Road, 4,160 feet N. of Base Line Road, on S. side of short east-west road. Use: Domestic and irrigation. Gravel 127-135; 150-158.	4426A	1,280	*370	(e)	Oct.,1918	--------	--------	6	183	14	21	13	50	16	[c]6
C-482-G-18	Glendora Consolidated Mutual Irrigating Co., Mutual Well 4. NW. of La Verne; 60 feet S. of Old Foothill Blvd., 350 feet W. of Artesia Ave. Use: Irrigation.	4407C	1,050	x500	(e)	Oct.,1918	--------	--------	23	[a]249	18	39	10	54	18	[c]25
					218	8/12/31	48.8	--------	21	253	11	36	4	52	23	28
C-501a-G-18	San Dimas Water Co., Artesia Plant. San Dimas; 100 feet S. of Juanita Ave., 50 feet E. of Artesia Ave. Use: Irrigation. Casing: 18 inches.	4408	1,017	*x571	438	10/16/31	41.9	0.01	32	204	14	21	8	38	15	33
C-546a-G-18	Base Line Water Co., Well 2 (formerly F. H. Harwood and B. A. Woodford). La Verne; 170 feet S. of Foothill Blvd., 100 feet W. of Wheeler Road. Use: Irrigation. Casing: 18 inches. Perforated 347-389; 403-423; 479-492.	4428B	1,116	*552	(e)	Oct.,1918	--------	--------	6	211	19	22	6	49	22	[c]6
C-676d-H-18	Phillipps Estate. W. of Pomona; 110 feet S. of U. P. R. R., 220 feet N. of 2d Ave., 4,700 feet W. of White Ave., 40 feet E. of concrete reservoir. Use: Irrigation. U. S. D. A. analysis on 8/22/31 is duplicate of D. W. R. Lab. No. 471.	3224	818	x	471	10/22/31	39.0	0.08	16	192	9	20	11	51	12	15
					(g)	10/22/31	38.3	0.06	18	204	9	19	15	52	11	[c]17
C-700c-I-16	Calendri & Marengo. E. of Puente; 830 feet N. of Valley Blvd., 1.05 miles E. of Pass and Covina Road. Use: Irrigation and domestic. Casing: 12 inches. Gravel 12-28; 88-90; 104-106; 158-160. U. S. D. A. analysis on 8/22/31 is duplicate of D. W. R. Lab. No. 234.	3099B	405	*201	234	8/21/31	117.7	--------	35	[a]326	80	243	16	101	44	109
					(g)	8/21/31	118.0	0.19	37	345	75	239	18	98	40	[c]110
C-704j-H-18	W. K. Kellogg, Well 2. W. of Pomona; 20 feet N. of San Jose Wash, 4,000 feet NE. of Collins St., 0.5 miles NW. of Valley Blvd. Use: Domestic. Gravel 66-80; 93-99; 192-195; 215-218.	3194	731	*231	362	9/26/31	54.3	0.09	21	232	18	69	4	61	18	28
C-705d-I-17	Reuther-Graham Feed Yards. SW. of Spadra; 60 feet E. of ranch road to Reuther-Graham Feed Yards, 145 feet S. of S. P. R. R., 4,300 feet NE. of Brea Canyon Road. Use: Domestic and stock. Gravel 42-60; 65-85.	3177A	613	*89	364	9/26/31	68.7	0.31	17	259	23	110	9	84	22	29
C-705e-I-17	Currier Ranch. SW. of Spadra; 200 feet S. of S. P. R. R., 1,400 feet SE. of Valley Blvd., 3,300 feet NE. of Brea Canyon Road. Use: Irrigation.	3167B	604	--------	363	9/26/31	66.5	0.37	--------	256	23	--------	--------	--------	--------	--------
C-710b-I-15	Victoria Mutual Water Co., Well 3. S. of Puente; 0.20 miles W. of Puente Road, 90 feet N. of U. P. R. R. Use: Irrigation. Casing: 16 inches. Gravel 28-82; 155-185; 268-270.	3048A	327	*500	242	8/21/31	103.9	--------	29	387	50	175	18	103	40	78

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[e] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[f] Analysis by Los Angeles Testing Laboratory, Los Angeles.
[g] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 5. SURFACE WATERS IN UPPER SAN GABRIEL VALLEY

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium: Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S5127-D-11	Arroyo Seco. NW. of Pasadena. Sampled at U. S. G. S. gaging station near south line of Sec. 30, T.2N., R.12W., S. B. B. & M. (unsurveyed), 1.5 miles above mouth of Millard Canyon and opposite U. S. Forest Service warehouse. Discharge from U. S. G. S. Note: Discharge less than 0.1 second feet on days for which no discharge is given.	S5127	1,450	0.2	109	7/ 2/31	45.2	-------	24	[a]244	9	19	0	46	18	27
				3.3	598	12/14/31	44.8	0.28	17	229	11	39	0	51	18	20
				2.8	648	1/19/32	41.7	0.28	-------	214	9	-------	-------	-------	-------	-------
				39	735	2/16/32	26.1	0.08	-------	125	6	-------	-------	-------	-------	-------
				9	815	3/14/32	33.0	0.10	-------	180	7	-------	-------	-------	-------	-------
				3.7	912	4/15/32	37.2	0.21	18	[a]198	6	24	Tr.	44	15	17
				2.7	985	5/15/32	40.2	0.18	-------	[a]210	9	-------	-------	-------	-------	-------
				1.3	1093	6/15/32	43.5	0.20	-------	[a]232	6	-------	-------	-------	-------	-------
				0.1	1161	7/15/32	47.0	0.41	20	[a]252	12	24	0	52	19	24
				-------	1279	8/15/32	45.3	0.34	-------	[a]247	14	-------	-------	-------	-------	-------
				0.2	1493	10/15/32	49.4	0.47	-------	271	12	-------	-------	-------	-------	-------
				0.2	1548	11/15/32	49.9	0.52	21	281	12	19	0	53	22	27
				0.4	1617	12/15/32	50.9	0.56	-------	272	16	-------	-------	-------	-------	-------
				50	1725	1/16/33	32.4	0.30	-------	162	9	-------	-------	-------	-------	-------
				10	1821	2/15/33	33.8	0.18	-------	168	5	-------	-------	-------	-------	-------
S5179-E-12	Rubio Canyon Land and Water Company. N. of Altadena. Rubio Canyon water from tunnels in canyon and surface flow sampled at reservoir from pipe line discharging into company's reservoir. All gravity water. Use: Irrigation.	S5179	1,750	-------	486	10/26/31	33.1	0.09	18	189	4	13	Tr.	41	12	16
S4090-E-12	Eaton Creek. Sampled at Pasadena Water Department intake just above U. S. G. S. gaging station near line between Secs. 2 and 11, T.1N., R.12W., S. B. B. & M., at mouth of canyon just above Mount Wilson toll bridge and 4 miles NE. of Pasadena. Use: Municipal.	S4090	1,220	4	819	3/16/32	27.4	0.21	11	149	7	11	0	33	14	8
S4163-E-13	Big Santa Anita Creek. E. of Sierra Madre. Sampled from standpipe on N. line of Grandview Ave. in center of Santa Anita Ave. Release from storage for irrigation.	S4163	800	-------	108	7/ 2/31	29.2	-------	18	171	4	9	1	35	12	14
				-------	219	8/12/31	31.8	-------	13	[a]186	6	8	Tr.	38	17	12
				-------	284	9/10/31	31.7	0.11	14	[a]183	5	10	Tr.	35	17	12
				-------	436	10/15/31	31.7	0.11	-------	180	5	-------	-------	-------	-------	-------
				-------	595	12/14/31	35.5	0.16	15	198	9	18	4	41	16	14
S4212-E-14	Sawpit Creek at Sawpit Dam. N. of Monrovia. In NW¼ of NE¼, Sec. 13, T.1N., R.11W., S. B. B. & M. Sampled from lowest needle gate valve.	S4212	1,240	-------	106	7/ 3/31	52.8	-------	17	274	11	46	0	65	19	23
S4203-E-14	Sawpit Creek. N. of Monrovia. Sampled at U. S. G. S. gaging station in SW¼, SW¼, Sec. 13, T.1N., R.11W., S. B. B. & M., three-eighths mile below junction of two main branches of creek. Discharge from U. S. G. S.	S4203	900	0.2	811	3/15/32	46.7	0.01	-------	241	14	-------	-------	-------	-------	-------
S4273-E-16	Fish Creek. NE. of Duarte. Sampled at U. S. G. S. gaging station in SW¼ of SW¼, Sec. 15, T.1N., R.10W., S. B. B. & M., 0.75 miles above mouth of canyon. Discharge from U. S. G. S.	S4273	1,025	6	818	3/15/32	35.4	0.02	13	210	6	17	0	48	16	13
S4293-F-16	Rogers Creek. N. of Azusa. Sampled at U. S. G. S. gaging station in NW¼, NW¼, Sec. 23, T.1N., R.10W., S. B. B. & M., 0.5 miles above mouth of creek. Discharge from U. S. G. S.	S4293	780	4.4	814	3/15/32	42.7	0.04	11	247	9	29	0	58	19	13
S4294-F-16	Southern California Edison Co.'s Canal. N. of Azusa; 0.6 miles N. of Sierra Madre Ave., 300 feet E. of San Gabriel Canyon Road. Sampled from weir at Southern California Edison Co.'s power house. Canal intake on San Gabriel River in SE¼, SE¼, Sec. 31, T.2N., R.9W., 5 miles above weir. Use: Power development and irrigation. During rainy season part of water from power plant is wasted back in San Gabriel River. Discharge is combined discharge of San Gabriel River and Southern California Edison Co.'s canal from W. S. P. No. 721 and U. S. G. S. unpublished data.	S4294	745	23	113	7/ 3/31	35.2	-------	16	[a]192	2	27	0	46	15	38
				12.8	220	8/12/31	35.8	-------	12	[a]192	4	31	Tr.	48	16	12
				10.4	283	9/10/31	39.4	0.04	11	[a]192	2	30	Tr.	45	16	10
				11.2	437	10/16/31	36.7	0.07	-------	198	2	-------	-------	-------	-------	-------
				58	596	12/14/31	37.8	0.09	11	207	4	31	0	51	13	11
				82	650	1/18/32	34.7	0.09	-------	198	6	-------	-------	-------	-------	-------
				764	733	2/15/32	27.8	0.02	-------	155	2	-------	-------	-------	-------	-------
				337	812	3/15/32	30.2	0.06	-------	174	2	-------	-------	-------	-------	-------
				219	913	4/15/32	29.6	0.11	10	[a]168	0	13	Tr.	42	10	7
				168	982	5/17/32	29.7	0.05	-------	[a]165	0	-------	-------	-------	-------	-------
				95	1089	6/14/32	31.6	0.10	-------	[a]177	4	-------	-------	-------	-------	-------
				62	1164	7/14/32	30.7	0.07	-------	168	2	-------	-------	-------	-------	-------
				36	1275	8/16/32	34.5	0.08	-------	[a]186	2	-------	-------	-------	-------	-------
				23	1402	9/13/32	34.2	0.07	13	180	2	25	Tr.	44	13	12
				23	1492	10/15/32	34.3	0.12	-------	180	0	-------	-------	-------	-------	-------
				22	1546	11/15/32	36.3	0.22	11	195	2	27	1	46	14	9
				38	1614	12/15/32	37.0	0.11	-------	[a]198	2	-------	-------	-------	-------	-------
				220	1706	1/17/33	30.7	0.10	-------	143	6	-------	-------	-------	-------	-------
				120	1817	2/16/33	33.4	0.12	-------	[a]177	2	-------	-------	-------	-------	-------
S4383-E-18	Big Dalton Creek. NE. of Glendora. Sampled just below Big Dalton Dam in SW¼ of SE¼, Sec. 15, T.1N., R.9W., S. B. B. & M. Use: Release from storage. Stream at U. S. G. S. gaging station is dry.	S4383	1,450	-------	1090	6/21/32	62.0	0.07	17	[a]332	21	42	1	68	29	28

TABLE 5. SURFACE WATERS IN UPPER SAN GABRIEL VALLEY—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium: Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S4373-F-17	Big Dalton Creek. NE. of Glendora. Sampled at U. S. G. S. gaging station, at center of Sec. 21, T.1N., R.9W., S. B. B. & M., ¼ mile above mouth of canyon. Discharge from U. S. G. S.	S4373	1,150	0.2	645	1/18/32	80.0	0.06	-------	345	28	-------	-------	-------	-------	-------
				23	732	2/15/32	40.3	0.04	19	204	13	34	1	43	19	20
				1	810	3/ 3/32	62.8	0.02	-------	290	20	-------	-------	-------	-------	-------
				0.1	916	4/15/32	76.9	0.10	26	345	25	115	0	82	32	54
				0.05	983	5/13/32	84.9	0.06	-------	363	26	-------	-------	-------	-------	-------
				0.9	1726	1/20/33	71.8	0.10	-------	265	30	-------	-------	-------	-------	-------
				0.3	1818	2/16/33	69.3	0.10	-------	296	23	-------	-------	-------	-------	-------
S4425-F-18	San Dimas Creek. NE. of San Dimas. Sampled at U. S. G. S. gaging station in SW¼ of NE¼ of Sec. 25, T.1N., R.9W., S. B. B. & M., at mouth of canyon on W. side of San Dimas Canyon Road, 200 feet above junction with road from east. Discharge from U. S. G. S	S4425	1,245	-------	105	7/ 3/31	65.9	-------	24	324	18	77	0	67	28	41
				-------	285	9/10/31	75.7	0.03	21	[a]345	18	85	0	73	33	40
				-------	440	10/16/31	72.7	0.08	-------	354	20	-------	-------	-------	-------	-------
				-------	597	12/14/31	80.9	0.10	22	[a]381	27	112	1	86	37	47
				-------	649	1/18/32	66.4	0.11	-------	333	20	-------	-------	-------	-------	-------
				-------	730	2/15/32	49.7	0.06	-------	241	16	-------	-------	-------	-------	-------
				-------	813	3/15/32	56.7	0.12	-------	290	20	-------	-------	-------	-------	-------
				-------	914	4/15/32	53.7	0.14	18	[a]290	13	40	0	58	27	25
				-------	984	5/13/32	57.4	0.08	-------	[a]302	14	-------	-------	-------	-------	-------
				-------	1091	6/15/32	59.7	0.10	-------	[a]314	16	-------	-------	-------	-------	-------
				-------	1163	7/14/32	63.2	0.10	20	336	16	49	Tr.	66	30	33
				-------	1278	8/16/32	68.1	0.10	-------	[a]338	21	-------	-------	-------	-------	-------
				-------	1405	9/13/32	69.8	0.15	-------	339	20	-------	-------	-------	-------	-------
				-------	1491	10/15/32	70.1	0.14	-------	357	16	-------	-------	-------	-------	-------
				-------	1545	11/15/32	72.3	0.14	21	357	20	73	0	74	33	39
				-------	1615	12/15/32	77.6	0.12	-------	369	27	-------	-------	-------	-------	-------
				-------	1703	1/17/33	75.7	0.10	-------	339	28	-------	-------	-------	-------	-------
				3.6	1819	2/16/33	53.7	0.10	-------	259	12	-------	-------	-------	-------	-------
S2926A-I-13	Sycamore Canyon Creek. SW. of El Monte in Whittier Narrows. Sampled at bridge in Texas Oil Co. field, 150 feet NE. of San Gabriel Blvd. and 400 feet NW. of Lincoln Ave. Principally oil well refuse.	S2926	210	-------	802	3/14/32	231	1.38	59	583	460	91	0	99	54	315
S2926-I-13	Rio Hondo. SW. of El Monte in Whittier Narrows; 600 feet NE. of San Gabriel Blvd., 1,000 feet upstream from Mission bridge; 200 feet upstream from mouth of Sycamore Canyon Creek. Rising water mixed with treated sewage effluent. Sampled from W. bank at L. A. C. F. C. D. gaging station 64. Discharge from L. A. C. F. C. D.	S2926A	198	12.80	47	6/13/31	63.8	-------	38	250	66	23	18	48	21	58
				15.65	223	8/13/31	65.2	-------	41	186	87	28	9	47	18	62
				5.38	297	9/15/31	63.6	0.23	43	165	76	23	11	41	17	60
				4.3	422	10/13/31	62.5	0.28	-------	229	69	-------	-------	-------	-------	-------
				91.0	590	12/14/31	69.0	0.19	37	210	87	22	7	52	17	53
				22.0	644	1/20/32	67.9	0.24	-------	247	73	-------	-------	-------	-------	-------
				243.6	721	2/15/32	36.7	0.09	-------	168	20	-------	-------	-------	-------	-------
				48.8	803	3/14/32	53.1	0.15	-------	189	48	-------	-------	-------	-------	-------
				20.6	917	4/19/32	64.5	0.35	47	198	73	29	16	43	16	70
				16.4	1043	6/16/32	69.2	0.39	-------	183	83	-------	-------	-------	-------	-------
				9.0	1155	7/20/32	66.0	0.39	-------	192	77	-------	-------	-------	-------	-------
				16.4	1367	9/12/32	64.9	0.30	42	186	67	24	34	45	14	56
				14.3	1474	10/11/32	67.1	0.43	-------	180	73	-------	-------	-------	-------	-------
				22.5	1539	11/19/32	62.3	0.31	-------	186	69	-------	-------	-------	-------	-------
				26.0	1574	12/10/32	62.2	0.29	40	235	57	27	7	43	16	53
				28.0	1681	1/13/33	69.4	0.35	-------	149	75	-------	-------	-------	-------	-------
				353	1704	1/20/33	30.2	0.08	-------	119	13	-------	-------	-------	-------	-------
				15.±	1811	2/28/33	73.1	0.27	-------	235	87	-------	-------	-------	-------	-------
S2937-I-13	Slough in Whittier Narrows. SW. of El Monte. Sampled at L. A. C. F. C. D. gaging station 83, at San Gabriel Blvd. crossing, 300 feet E. of Mission Bridge over Rio Hondo. Rising water.	S2937	197	16.03	46	6/13/31	36.0	-------	19	214	11	14	2	41	16	18
				14.04	123	7/13/31	36.0	-------	28	198	9	14	4	43	9	27
				13.54	224	8/13/31	36.0	-------	20	195	7	14	2	44	14	20
				12.07	294	9/15/31	36.2	0.05	20	192	5	11	2	44	14	20
				13.50	423	10/13/31	37.0	0.09	-------	204	7	-------	-------	-------	-------	-------
				19.00	591	12/14/31	37.4	0.07	21	198	9	15	2	44	12	19
				18.50	646	1/20/32	36.9	0.14	-------	204	9	-------	-------	-------	-------	-------
				19.25	722	2/15/32	38.4	0.16	-------	204	9	-------	-------	-------	-------	-------
				18.75	804	3/14/32	37.1	0.09	-------	201	9	-------	-------	-------	-------	-------
				16.25	918	4/19/32	36.8	0.11	23	[a]198	7	14	4	45	11	22
				16.25	1044	6/16/32	37.1	0.08	-------	198	9	-------	-------	-------	-------	-------
				15.50	1156	7/20/32	36.9	0.09	-------	195	7	-------	-------	-------	-------	-------
				16.25	1368	9/12/32	37.9	0.05	18	[a]198	9	4	2	48	11	17
				16.5	1475	10/11/32	37.6	0.17	-------	195	7	-------	-------	-------	-------	-------
				16.8	1540	11/19/32	36.4	0.19	-------	198	7	-------	-------	-------	-------	-------
				16.6	1575	12/10/32	36.8	0.17	19	192	7	17	2	43	13	17
				17.5	1682	1/13/33	36.7	0.10	-------	195	9	-------	-------	-------	-------	-------
				19	1812	2/28/33	37.4	0.10	-------	195	7	-------	-------	-------	-------	-------

TABLE 5. SURFACE WATERS IN UPPER SAN GABRIEL VALLEY—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium: Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S2947-I-13	San Gabriel River. SW. of El Monte in Whittier Narrows. Sampled from Cate Ditch at end of Syphon Road, 0.7 miles SE. of Durfee Road. Intake of ditch is 1,500 feet upstream. Use: Irrigation. Discharge is combined discharge of Cate Ditch, Standifer Ditch and San Gabriel River below Standifer Ditch from L. A. C. F. C. D.	S2947	205	20	45	6/13/31	46.0	-------	35	[a]262	11	27	4	36	18	40
				13	122	7/13/31	47.3	-------	18	250	9	31	6	63	15	22
				14	225	8/13/31	44.8	-------	11	[a]247	9	27	2	66	17	13
				15	295	9/15/31	35.8	0.09	11	192	2	21	1	48	13	10
				17	424	10/13/31	46.1	0.15	9	253	9	29	2	66	16	11
				25	592	12/14/31	47.6	0.05	12	247	11	38	2	69	16	15
				27	647	1/20/32	45.1	0.16	-------	241	9	-------	-------	-------	-------	-------
				60	723	2/15/32	47.9	0.08	-------	247	11	-------	-------	-------	-------	-------
				30	805	3/14/32	36.0	0.15	-------	201	4	-------	-------	-------	-------	-------
				29	919	4/19/32	37.0	0.14	8	204	5	20	1	52	13	78
				22	1045	6/16/32	36.0	0.03	-------	192	5	-------	-------	-------	-------	-------
				23	1157	7/20/32	50.4	0.05	11	265	7	39	1	72	16	14
				19	1369	9/12/32	50.7	0.30	9	[a]268	7	20	2	74	16	12
				25	1476	10/11/32	52.3	0.12	-------	265	12	-------	-------	-------	-------	-------
				24	1541	11/19/32	37.0	0.10	-------	198	4	-------	-------	-------	-------	-------
				30+	1576	12/10/32	55.8	0.10	7	259	20	51	1	76	18	10
				26	1683	1/13/33	50.8	0.08	-------	[a]244	9	-------	-------	-------	-------	-------
				90+	1705	1/20/33	34.2	0.08	-------	152	7	-------	-------	-------	-------	-------
				31	1813	2/28/33	50.2	0.09	-------	241	4	-------	-------	-------	-------	-------
S2967-I-13	San Jose Creek. S. of El Monte. Sampled at L. A. C. F. C. D. gaging station 48, 200 feet upstream from Workman Mill Road Bridge. Discharge from L. A. C. F. C. D.	S2967	225	0.30	272	9/ 2/31	83.1	0.15	29	366	32	114	0	86	28	62
				0.34	425	10/13/31	77.8	0.15	28	351	23	104	Tr.	82	27	55
				0.17	593	12/14/31	82.2	0.11	29	271	41	152	6	78	28	57
				0.60	652	1/20/32	97.6	0.20	-------	357	48	-------	-------	-------	-------	-------
				5.10	724	2/15/32	54.0	0.18	-------	168	30	-------	-------	-------	-------	-------
				0.25	806	3/14/32	94.8	0.13	-------	320	45	-------	-------	-------	-------	-------
				0.28	920	4/19/32	91.7	0.16	29	363	32	163	0	101	29	68
				0.15	1046	6/16/32	98.3	0.16	-------	324	48	-------	-------	-------	-------	-------
				0.1	1477	10/11/32	100.0	0.20	29	372	43	174	0	97	41	79
				0.2	1577	12/10/32	101	0.19	31	375	44	191	0	99	37	81
				6.8	1702	1/20/33	40.4	0.12	-------	137	20	-------	-------	-------	-------	-------
				0.2	1814	2/28/33	89.4	0.14	-------	327	36	-------	-------	-------	-------	-------
S3190-G-18	Los Angeles County Flood Control District, Puddingstone Reservoir. S. of San Dimas. Sampled 200 feet out in reservoir from Dam 1. Use: Storage for irrigation.	S3190	950	-------	877	4/15/32	22.6	0.05	27	98	7	22	4	23	7	15
				-------	878	4/15/32	22.1	0.04	-------	98	6	-------	-------	-------	-------	-------
				-------	928	5/ 2/32	22.9	0.08	-------	104	7	-------	-------	-------	-------	-------
				-------	1060	6/10/32	24.8	0.05	22	113	6	25	Tr.	26	11	15

[a] Includes small equivalent quantity of Carbonate (CO_3).

TABLE 6. WELLS AND SURFACE WATERS IN SAN TIMOTEO AREA

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-103-H-28	Dr. J. J. Weir. Loma Linda; 200 feet S. of Prospect Ave., 360 feet W. of Benton Ave. Use: Domestic and irrigation. Perforated 20-260.	18044B	1,150	260	1219	8/ 4/32	91.2	0 29	65	348	67	46	45	41	16	145
E-104-H-28	Clifford T. Norwood. Bryn Mawr; 20 feet W. of Mountain Ave., extended, 30 feet S. of Bryn Mawr Ave., extended, 0.62 miles S. of Barton Ave. Use: Irrigation. Casing: 14 inches. Perforated 200-633; 677-693; 721-761.	18056	1,312	*795	1241	8/ 5/32	57 5	0 07	77	165	67	42	2	17	6	100
E-107k-H-29	Bryn Mawr Water Co., Well 1. Bryn Mawr; 75 feet S. of S. P. R.R., 600 feet W. of California St. Use: Irrigation. Casing: 18 inches. Perforated 200-348; 354-398.	18075D	1,215	*554	1221	8/ 5/32	78 5	0 01	43	336	39	60	27	58	24	83
E-112g-I-29	H. L. Hubbard. SW. of Redlands; 800 feet SE. of San Timoteo Canyon Road and S. P. R.R. crossing, 2,400 feet SW. of San Timoteo Road, 760 feet E. and 330 feet N. of SW. corner of Sec. 4, T.2S., R.3W., S. B. B. & M. Use: Irrigation. Casing: 14 inches.	18097D	1,430	(x)	1225	8/ 5/32	81 4	0 04	49	403	50	38	2	48	27	102
E-112b-I-29	Chas. H. Clocke. SW. of Redlands; 75 feet S. of S. P. R.R., 800 feet W. of Redlands City limits, 1,000 feet NW. of Redlands S. P. R.R. depot, in San Timoteo Canyon. Use: Irrigation. Casing: 14 inches. Perforated 125-475; 522-549.	18086A	1,295	*568	1223	8/ 5/32	73 0	0 04	46	327	41	53	7	49	22	84
E-120f-H-30	City of Redlands, Well 5 (formerly Redlands Water Co., Well 2). Redlands; 300 feet SE. of Crescent Ave., 400 feet NE. of Roosevelt St. (State Highway), 500 feet NE. of reservoir. Use: Municipal. Casing: 10 inches. Gravel 110-156; 164-200; 206-220; 284-292; 344-360; 390-400; 406-410; 420-424; 450-452; 490-506.	18135D	1,532	*x510	(d)	4/15/31	------	------	------	220	16	b25	------	------	------	------
E-120j-H-30	City of Redlands, Well 11. Redlands; 800 feet SE. of Crescent Ave., 300 feet NE. of Roosevelt St. (State Highway). NW. well. Use: Municipal. Casing: 18 inches. Gravel 101-131; 152-174; 190-194; 291-298; 370-390; 498-514.	18135H	1,565	*x687	(d) 1229	4/15/31 8/ 4/32	------ 40 2	------ 0 05	------ 43	195 180	20 20	b38 24	------ 9	------ 34	------ 10	------ 41
E-120k-H-30	City of Redlands, Well 12. Redlands; 1,000 feet SE. of Crescent Ave., 50 feet NE. of Roosevelt St. (State Highway), E. of reservoir. Use: Municipal. Casing: 20 inches. Gravel 98-124; 263-296; 302-330.	18135f	1,568	*x347	(d) 1230	4/15/31 8/ 4/32	------ 44.1	------ 0.01	------ 32	217 195	18 20	b23 26	------ 13	------ 41	------ 14	------ 34
E-120m-H-30	City of Redlands, Well 16. Redlands; 0.3 miles SE. of Crescent Ave., 50 feet NE. of Roosevelt St. (State Highway), E. of reservoir. Use: Municipal. Casing: 20 inches. Gravel 170-206; 238-280; 320-326; 346-352.	18135K	1,572	*x414	(d)	4/15/31	------	------	------	195	18	b27	------	------	------	------
E-122b-I-30	Frank Mulvihill. S. of Redlands; 15 feet SW. of San Timoteo Road, 170 feet NW. of Live Oak Canyon Road. Use: Domestic. Casing: 7 inches. W. S. P. 142, No. 36, Redlands Quadrangle.	18139A	1,553	x 96	1231	8/ 5/32	78 0	0 04	44	348	43	76	1	54	26	87
E-130-I-31	Lower Yucaipa Water Co. SE. of Redlands; 500 feet N. of Live Oak Canyon Road, 1 3 miles SE. of State Highway, 30 feet W. of center line of Sec. 8, T.2S., R.2W., S. B. B. & M. Use: Irrigation. Casing: 12 inches.	18188	1,909	x210	1196	7/21/32	54 4	0.06	33	290	21	20	2	53	17	46
E-130b-I-31	Daniel Webster. SE. of Redlands; 0 4 miles W. of E. line of Sec. 7, T.2S., R.2W., S. B. B. & M., 0 28 miles W. of Live Oak Canyon Road bridge, 400 feet S. of Live Oak Canyon Road and 100 feet S. of S. bank of creek. Use: Irrigation. Casing: 12 inches.	18179A	1,553	244	1195	7/21/31	53.7	0.01	37	268	27	25	1	48	16	49
E-132b-H-32	South Mountain Water Co., Well 3. W. of Yucaipa; 75 feet N. of Yucaipa Blvd., 300 feet E. of 12th St. Use: Irrigation. Casing: 20 inches. Perforated 126-610.	18216D	2,155	*x648	1197	7/21/32	46.2	0.03	21	244	13	24	8	57	16	25
E-133-I-31	Western Heights Water Co., Well 5. W. of Yucaipa; 60 feet S. of Ave. E, 0.1 miles W. of 12th St. Use: Irrigation. Casing: 10 inches.	18217	2,097	x788	1238	8/ 5/32	42.8	0.01	17	235	9	18	4	57	13	19
E-133a-I-31	Western Heights Water Co., Well 4. W. of Yucaipa; 40 feet S. of Ave. E, 450 feet E. of 15th St. Use: Irrigation. Casing: 12 inches. Gravel 105-110; 320-326; 382-385; 460-530.	18207	2,074	*x537	1237	8/ 5/32	44 1	0 01	21	238	9	25	4	57	13	24
E-135b-I-32	J. B. Hundley. Yucaipa; 500 feet S. of Yucaipa Blvd., 15 feet W. of 7th St. Use: Irrigation. Casing: 12 inches.	18236	2,407	x345	1200	7/21/32	41 1	0 03	18	223	11	17	6	52	14	18

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million)						
										Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-135c-H-32	Crafton-Macy Water Co. W. of Yucaipa; 15 feet N. of Yucaipa Blvd., 300 feet W. of Dakota Place. Use: Irrigation. Casing: 22 inches.	18226B	2,255	450	1198	7/21/32	42.4	0.03	16	229	9	16	6	54	14	17
E-136d-I-32	Redlands-Yucaipa Land Co., Dairy Ranch Well. SW. of Yucaipa; 200 feet N. of Riverside County Line, 0.8 miles W. of State Highway, in S.½, Sec. 10, T.2S., R.2W., S. B. B. & M. Use: Irrigation. Casing: 20 inches. Perforated 140-378.	18229C	2,247	*x403	1199	7/21/31	50.9	0.03	29	278	20	22	3	53	17	38
E-136i-I-32	South Mesa Water Co., Well 11. SW. of Yucaipa; 150 feet W. of State Highway, 10 feet S. of County Line Road. Use: Irrigation. Casing: 16 inches. Perforated 205-363.	18239A	2,392	*x443	1201	7/21/32	47.4	0.07	32	226	16	28	6	46	15	39
E-138-I-32	Yucaipa Water Co. No. 1, Well 12. Yucaipa; 15 feet N. of Ave. F, 600 feet W. of 5th St. Use: Irrigation. Casing: 16 inches. Gravel 155-172; 202-240; 260-289; 300-315; 360-378; 398-464.	18248	2,420	*x464	1202	7/21/32	42.8	0.10	22	223	11	25	4	51	11	23
E-138b-I-32	South Mesa Water Co., Well 6. S. of Yucaipa; 200 feet N. of Ave. H, 40 feet E. of 4th St., extended. Use: Irrigation. Casing: 16 inches.	18248B	2,471	x406	1203	7/21/32	42.6	0.07	42	186	16	34	11	37	10	45
E-138e-I-32	South Mesa Water Co., Well 4. S. of Yucaipa; 300 feet S. of Ave. L on E. line of 4th St., extended. Use: Irrigation. Casing: 16 inches. Gravel 188-206; 208-218; 220-222; 310-316; 338-360; 362-368.	18249A	2,453	*x497	1204	7/21/32	48.1	0.05	30	244	27	12	4	43	19	38
E-139-H-32	Triple Falls Water Co., Well 2. N. of Yucaipa; 20 feet W. of 2d Ave., 0.23 miles N. of Center St. Use: Irrigation. Casing: 16 inches.	18263	2,842	x650	1242	8/ 5/32	47.4	0.09	39	223	9	38	7	45	11	46
E-139a-H-33	Section 30 Mutual Water Co. N. of Yucaipa; 0.37 miles S. of Carter St., 40 feet E. of 2d Ave. Use: Irrigation. Casing: 16 inches. Gravel 208-262; 294-318; 324-330; 334-358; 376-384; 400-414.	18264	2,817	*x420	1243	8/ 5/32	60.4	0.07	33	296	11	51	8	64	16	50
E-139f-H-32	R. T. Clyde, Well 2. N. of Yucaipa; 1300 feet W. of 2d Ave., 440 feet S. of F St., extended. Use: Irrigation. Casing: 16 inches.	18264C	2,760	398	1244	8/ 5/32	58.1	0.09	38	277	11	58	7	57	13	56
E-140d-H-33	G. J. Trowbridge. Yucaipa; 1,000 feet N. of D St., 475 feet W. of Pendleton Ave. Use: Domestic and irrigation. Casing: 16 inches. Perforated 275-285; 299-323.	18275	2,980	*383	1245	8/ 5/32	49.2	0.07	25	247	14	32	4	56	14	30
E-141-I-33	Yucaipa Water Co. No. 1, Well 9. SE. of Yucaipa; 70 feet S. of Ave. F, 0.15 miles E. of 10th Ave. In Hog Canyon. Use: Irrigation. Casing: 16 inches. Perforated 50-129.	18288	2,812	*x145	1205	7/21/32	47.8	0.05	27	244	16	Tr.	4	49	16	33
E-141b-I-33	Yucaipa Water Co. No. 1, Wildwood Mesa Well. SE. of Yucaipa; 700 feet S. of Ave. F, 600 feet E. of 10th Ave., extended due S. from Ave. F. On top of mesa. Use: Irrigation.	18288B	2,860	----------	1206	7/21/32	49.0	0.06	26	259	18	20	4	51	18	33
E-145b-I-34	Beaumont Irrigation District, Well 20. N. of Beaumont, 6,700 feet N. along Oak Glenn Road from junction with Hog Canyon Road, 50 feet SW. of W. Ranch Road, 150 feet E. of creek; 1,100 feet N. and 1,900 feet E. of SW. corner of Sec. 2, T.2S., R.1W., S. B. B. & M. Use: Irrigation. Casing: 16 inches. Perforated 18-72.	18347	4,291	*x197	1208	7/20/32	36.1	0.06	15	198	6	22	1	42	16	14
E-146d-I-34	Beaumont Irrigation District, Well 19. N. of Beaumont, 2.6 miles N. along Oak Glenn Road from Orchard St., 150 feet E. of Edgar Creek, 50 feet E. of Well 6; 1,700 feet N. and 200 feet W. of SE. corner of Sec. 10, T.2S., R.1W., S. B. B. & M. Use: Irrigation. Casing: 16 inches. Perforated 40-255.	18338D	3,660	*x270	1207	7/20/32	39.6	0.02	18	217	7	22	2	46	16	18
E-223-J-30	J. H. Stewart. SE. of Redlands; 100 feet NE. of S. P. R.R., 200 feet NE. of San Timoteo Canyon Road, 0.76 miles SE. of Redlands Blvd. Use: Irrigation. Casing: 20 inches. Perforated 75-111; 306-348; 374-396; 402-416; 462-479.	17251A	1,692	*x540	1177	7/21/32	108	0.11	57	457	87	81	0	62	23	156
E-227d-J-32	Charles Singleton. SE. of Redlands; 1,700 feet SW. of El Casco Bridge on San Timoteo Canyon Road, 100 feet SW. of E.¼ corner of Sec. 28, T.2S., R.2W., S. B. B. & M. Use: Irrigation. Casing: 12 inches.	17313	2,044	x238	1179	7/21/31	55.3	0.07	78	[a]247	52	8	Tr.	17	5	104

TABLE 6. WELLS AND SURFACE WATERS IN SAN TIMOTEO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-229a-J-32	W. D. Burns (formerly Tom Singleton). S. of Yucaipa; 1,750 feet W. of the intersection of Burns Ave. and State Highway, 0.75 miles SE. of Ave. L, 800 feet NW. of Burns Ave., extended. Use: Irrigation and domestic. Casing: 16 inches. Perforated 130-165; 195-215; 601-653. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1180.	17330A	2,294	*x686	1180 (c)	7/21/32 7/21/32	42.4 42.4	Tr. --------	39 43	195 195	30 23	5 5	6 7	33 35	13 7	41 c40
E-230b-J-32	J. S. Haskell. SE. of Redlands; 125 feet NE. of San Timoteo Canyon Road, 1.45 miles SW. of El Casco Bridge, 300 feet E. and 400 feet N. of SW. corner of Sec. 26, T.2S., R.2W., S. B. B. & M. Casing in water trough in feed yard. Use: Stock. Casing: 10 inches. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1181. Well is artesian.	17333	2,113	x600	1181 (c)	7/21/32 7/21/32	39.1 39.0	0.08 --------	50 51	201 207	16 9	12 10	4 4	30 30	8 6	50 c49
E-232-J-32	Dwight B. Cooper. S. of Yucaipa; 200 feet NE. of State Highway, 1 mile SE. along State Highway from Ave. L. Use: Irrigation. Casing: 12 inches. Perforated 178-182; 205-216; 218-234; 236-254; 274-284. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1182.	17341D	2,387	*x285	1182 (c)	7/21/32 7/21/32	40.4 40.3	0.03 --------	37 37	195 201	28 30	8 6	6 7	28 29	17 17	39 c39
E-233-J-32	Moreno Mutual Irrigation Co., Well 5. S. of Yucaipa; 1,120 feet SW. of State Highway, 670 feet SE. of Moreno Ave., extended, 915 feet W. of Well 3. Use: Irrigation. Casing: 16 inches. Gravel 95-286. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1183.	17342	2,249	*x288	1183 (c)	7/20/32 7/20/32	41.2 40.9	0.03 --------	28 29	217 217	16 16	12 8	6 8	39 39	16 15	30 c29
E-233b-J-32	Moreno Mutual Irrigation Co., Well 2. S. of Yucaipa; 400 feet SW. of State Highway, 0.47 miles SE. of Moreno Ave. Use: Irrigation. Casing: 16 inches. Perforated 131-221; 290-360. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1184.	17352D	2,257	*x387	1184 (c)	7/20/32 7/20/32	35.9 36.1	0.01 --------	26 26	201 204	9 11	12 8	4 7	38 38	13 13	24 c24
E-236-J-33	C. L. Covington. NW. of Beaumont; 10 feet N. of Woodland Ave., 0.35 miles E. of State Highway. Use: Irrigation. Casing: 12 inches. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1185.	17362	2,348	x220	1185 (c)	7/20/32 7/20/32	37.4 37.4	Tr. --------	20 21	204 207	13 7	8 7	6 9	39 39	17 15	20 c19
E-237 K-33	J. D. Huston. W. of Beaumont; 1,600 feet S. of San Timoteo Canyon Road, 0.41 miles E. of where San Timoteo Canyon Road crosses S. P. R.R. 2 miles W. of State Highway. Use: Domestic. Casing: 10 inches. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1186.	17376	2,335	x72	1186 (c)	7/21/32 7/21/32	39.7 39.1	0.01 --------	38 34	189 192	27 27	1 1	6 11	35 36	12 12	38 c23
E-240f-J-33	J. Vincent Hannon. NW. of Beaumont; 400 feet N. of Vineland St., on E. line of Union Ave., extended. Use: Irrigation. Casing: 16 inches.	17392C	2,717	x200	1178	7/21/32	42.2	0.02	31	204	25	13	6	32	20	33
E-241-J-33	L. T. Smith. NW. of Beaumont; 2,500 feet S. of Roach Ave., 1 mile W. of Nancy Ave., extended, 1,600 feet NW. of State Highway. Use: Irrigation and domestic. U. S. D. A. analysis on 7/21/32 is duplicate of D. W. R. Lab. No. 1187.	17394	2,491	x328	1187 (c)	7/21/32 7/21/32	31.3 31.1	0.01 --------	21 21	162 165	9 9	11 2	6 11	33 34	13 11	16 c16
E-242-K-33	Nellie M. Wormley. W. of Beaumont; 250 feet N. of Jackrabbit Trail (San Gorgonio Drive), 0.6 miles W. of S. P. R.R. Use: Irrigation. Casing: 16 inches. Gravel 384-388; 454-494.	17396	2,432	*x1300	(f) 1188	Dec., 1923 7/21/32	-------- 35.6	-------- 0.02	-------- 78	165 a182	59 21	-------- 6	-------- 2	-------- 11	-------- 4	-------- 74
E-243j-J-33	Beaumont Irrigation District, Well 38. N. of Beaumont; 1,800 feet N. of Orchard St., 50 feet W. of Nancy Ave., extended. Use: Irrigation. Casing: 12 inches. Perforated 285-785. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1189.	17401J	2,852	*811	1189 (c)	7/20/32 7/20/32	53.9 53.3	0.02 --------	37 37	253 256	28 28	39 36	2 2	41 41	20 21	50 c50
E-254j-J-34	Beaumont Irrigation District, Well 30. N. of Beaumont; 25 feet N. and 700 feet E. from SW. corner of Sec. 14, T. 2S., R. 1W., S. B. B. & M., 50 feet E. of Edgar Creek. Use: Irrigation. Casing: 16 inches. Perforated 35-60; 70-75; 90-95; 112-176; 190-195; 206-287. U. S. D. A. analysis on 7/20/32 is duplicate of D. W. R. Lab. No. 1190.	17430H	3,180	*308	(c) 1190 (c)	3/28/29 7/20/32 7/20/32	41.5 40.4 40.2	-------- 0.01 --------	-------- 20 19	214 220 223	11 11 11	10 20 19	-------- 2 2	51 46 47	19 15 16	-------- 20 c20
E-258-K-34	Richfield Oil Co. E. of Beaumont; 150 feet N. of State Highway, 0.27 miles E. of Glen Eyre Ave. Use: Domestic. Casing: 12 inches. Perforated 290-310; 344-350.	17456	2,580	*353	1191	7/20/32	39.5	Tr.	27	214	20	0	8	36	16	27

TABLE 6. WELLS AND SURFACE WATERS IN SAN TIMOTEO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10[5] at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million)						
										Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-258a-K-34	R. P. Stewart. SE. of Beaumont; 300 feet E. of Laurel Road (Glen Eyre Ave., extended), 0.58 miles S. of State Highway. Use: Domestic. Casing: 10 inches.	17457	2,544	x295	1192	7/20/32	23.9	0.05	34	113	14	0	8	20	10	21
E-259-K-34	R. P. Stewart. SE. of Beaumont; 200 feet E. of Laurel Road (Glen Eyre Ave., extended), 1.4 miles S. of State Highway. Use: Stock. Casing: 10 inches.	17459	2,478	x91	1193	7/20/32	34.0	0.03	29	186	13	1	6	44	10	28
S17462-J-34	Highland Springs Health Resort. NE. of Beaumont. Gravity water from springs in canyon NE. of hotel. Sampled at outlet to reservoir N. of hotel, 0.25 miles N. of Grand St. on line of Hillside Ave., extended. Use: Irrigation. Discharge 0.13 second-feet.	S17462	3,200	----------	1194	7/20/32	20.1	0.03	25	98	6	2	8	19	9	13
S18347-I-34	Beaumont Irrigation District. Edgar Canyon Creek. N. of Beaumont. Gravity flow at weir, 900 feet N. and 1,900 feet E. of SW. corner of Sec. 2, T. 2S., R. 1W., S. B. B. & M., 200 feet S. of Well E-145b-1-34 (Owner's Well 20). Use: Irrigation. Discharge 0.4 second-feet.	S18347	4,285	----------	1209	7/20/32	35.0	0.05	16	198	2	19	Tr.	39	14	14

*Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[e] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[f] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Percent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-1a-H-5	United States Government Soldiers' Home, Well 11. Sawtelle; 125 feet W. of Sepulveda Blvd., 0.25 miles N. of Wilshire Blvd. Use: Domestic and irrigation. Casing: 12 inches.	2544	343	x300	180	7/30/31	94.5	-------	19	324	50	127	40	103	40	46
B-4f-H-5	City of Santa Monica, Arcadia Plant, Well 1. NE. of Santa Monica; 40 feet S. of Wilshire Blvd., 50 feet E. of Bundy St. Use: Municipal, standby plant. Casing: 18 inches. Gravel 60-95; 120-134; 138-170; from composite log of 5 wells in group.	2535B	244	*200	181	7/30/31	93.6	-------	21	259	48	212	2	87	46	51
B-5a-I-5	American States Water Service Co., Well 8. Venice; 800 feet NE. of Lincoln Blvd., 700 feet NW. of Lake St. Use: Not used. Casing: 20 inches. Gravel 69-90; 111-123. L. A. C. F. C. D. analysis from sample 15 feet below surface of water. Lab. No. 1362 from bottom of well.	2539C	24	*x200	(f) 1362	6/29/31 9/ 6/32	------ 359	------ 0.37	------ ------	100 277	1,044 916	------ ------	------ ------	------ ------	------ ------	------ ------
B-5b-I-5	City of Santa Monica, Marine New Well 5. Santa Monica; 215 feet SE. of Marine St., 190 feet SW. of 16th St., 20 feet from Old Well 5. Use: Municipal. Casing: 16 inches. Perforated 35-146.	2539D	24	*204	(f) (d) 177 (f)	0/13/31 7/17/31 7/30/31 4/30/32	------ ------ 110.1 ------	------ ------ ------ ------	------ ------ 25 ------	276 308 277 278	135 81 119 142	------ b108 178 ------	------ ------ 0 ------	------ ------ 97 ------	------ ------ 51 ------	------ ------ 69 ------
B-5d-I-5	Francisco M. Cota. SE. of Santa Monica; 140 feet W. of 23d St., 20 feet S. of Dewey St. Use: Irrigation.	2549A	35	------	(f) (f)	6/13/31 4/30/32	------ ------	------ ------	------ ------	304 328	46 57	------ ------	------ ------	------ ------	------ ------	------ ------
B-5e-I-5	American States Water Service Co., Well 6. Venice; 1,025 feet NE. of Lincoln Blvd., 240 feet NW. of Vernon St. Use: Not used. Casing: 18 inches. Perforated 47-105. Sampled from bottom of well.	2539A	22	*140	1363	9/6/32	473	0.18	------	201	1,260	------	------	------	------	------
B-5g-I-5	City of Santa Monica, Marine Well 1. Santa Monica; 340 feet SE. of Marine St., 290 feet SW. of 16th St. Use: Municipal. Casing: 18 inches. Perforated 28-100.	2539E	23	*182	(d)	7/17/31	------	------	------	288	276	b130	------	------	------	------
B-5h-I-5	City of Santa Monica, Marine New Well 2. Santa Monica; 390 feet SE. of Marine St., 25 feet SW. of 16th St., 18 feet from Old Well 2. Use: Municipal. Casing: 16 inches. Gravel 20-80, from log of Old Well 2.	2539F	23	200	(d) 891	7/17/31 3/25/32	------ 153	------ 0.22	------ 24	332 308	97 220	b166 255	------ Tr.	------ 149	------ 64	------ 90
B-5j-I-5	City of Santa Monica, Well 4. Santa Monica; 50 feet SE. of Marine St., 350 feet SW. of 16th St. Use: Municipal. Casing: 18 inches. Perforated 23-115.	2539H	25	*139	(d)	7/17/31	------	------	------	268	84	b92	------	------	------	------
B-7f-I-6	L. F. Arnold. SE. of Sawtelle; 375 feet SE. of Sawtelle Blvd., 50 feet SW. of Richland Ave. Use: Irrigation and domestic. Casing: 14 inches. Gravel 220-226; 314-334.	2566A	141	*380	176	7/30/31	69.6	------	29	247	38	115	4	87	32	54
B-8a-I-6	American States Water Service Co., Pacific Plant, Well 1. SW. of Culver City; 75 feet SE. of Pacific Ave., 120 feet NE. of Wasatch Ave., 50 feet N. of Well 2. Use: Municipal. Casing: 10 inches. Gravel 77-105.	2569	56	*225	(f) (f) 178	10/ 7/30 6/ 8/31 7/30/31	------ ------ 99.4	------ ------ ------	------ ------ 25	289 293 296	59 71 73	------ ------ 179	------ ------ 0	------ ------ 95	------ ------ 42	------ ------ 62
B-9a-I-6	American States Water Service Co. (formerly Peoples Water Co.), Plant 1, Well 3. Palms; 20 feet SW. of Manning Ave., 175 feet SE. of Woodbine St. Use: Domestic. Casing: 16 inches. Gravel 125-137; 173-179.	2596	179	*x263	(d)	4/20/32	------	------	------	345	65	b50				
B-10d-I-6	City of Santa Monica, Charnock Well 1. E. of Santa Monica; 467 feet SW. of Sawtelle Blvd., 171 feet NW. of Westminster Ave., 140 feet SW. of Corinth Ave. Use: Municipal. Casing: 18 inches. Perforated 98-104; 140-170; 176-182; 197-209; 227-245; 260-305; 350-380.	2578D	100	*x388	(d)	7/17/31	------	------	------	278	67	b123	------	------	------	------
B-10e-I-6	City of Santa Monica, Charnock Well 2. E. of Santa Monica; 705 feet SW. of Sawtelle Blvd., 151 feet NW. of Westminster Ave., 71 feet SW. of Purdue Ave. Use: Municipal. Casing: 18 inches. Perforated 104-119; 185-209; 230-305; 335-353.	2578E	98	*393	(d)	7/17/31	------	------	------	288	56	b132	------	------	------	------
B-10f-I-6	City of Santa Monica, Charnock Well 3. E. of Santa Monica; 825 feet SW. of Sawtelle Blvd., 150 feet NW. of Westminster Ave., 67 feet SE. of Butler Ave. Use: Municipal. Casing: 18 inches. Perforated 100-106; 162-170; 192-230; 260-300; 327-340.	2578F	95	*386	(d)	7/17/31	------	------	------	273	76	b150	------	------	------	------

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-10g-1-6	City of Santa Monica, Charnock Well 4. E. of Santa Monica; 1,015 feet SW. of Sawtelle Blvd., 140 feet NW. of Westminster Ave., 74 feet SW. of Butler Ave. Use: Municipal. Casing 18 inches. Perforated 190-350.	2578G	95	*468	(d)	7/17/31	-------	-------	-------	298	65	[b]144	-------	-------	-------	-------
B-10h-1-6	City of Santa Monica, Charnock Well 5. E. of Santa Monica; 163 feet SW. of Sawtelle Blvd., 110 feet NW. of Westminster Ave., 113 feet SE. of Corinth Ave. Use: Municipal. Casing: 20 inches. Perforated 170-200; 215-230; 257-300.	2578H	105	*382	(d)	7/17/31	-------	-------	-------	298	43	[b]86	-------	-------	-------	-------
B-10i-1-6	City of Santa Monica, Charnock Well 6. E. of Santa Monica; 350 feet SW. of Sawtelle Blvd., 24 feet NW. of Westminster Ave., 24 feet SW. of Corinth Ave. Use: Municipal. Casing: 18 inches. Perforated 178-198; 220-288.	2578I	101	*384	(d)	7/17/31	-------	-------	-------	293	53	[b]89	-------	-------	-------	-------
					179	7/30/31	83.3	-------	23	274	52	134	4	77	33	46
B-10j-1-6	City of Santa Monica, Charnock Well 7. E. of Santa Monica; 560 feet SW. of Sawtelle Blvd., 24 feet NW. of Westminster Ave. 24 feet SE. of Purdue Ave. Use: Municipal. Casing: 18 inches. Perforated 174-200; 222-290.	2578J	98	*x400	(d)	7/17/31	-------	-------	-------	273	59	[b]118	-------	-------	-------	-------
B-10k-1-6	City of Santa Monica, Charnock Well 8. E. of Santa Monica; 766 feet SW. of Sawtelle Blvd., 24 feet NW. of Westminster Ave., 132 feet SW. of Purdue Ave. Use: Municipal. Casing: 18 inches. Perforated 110-130; 225-270; 308-312.	2578K	96	*390	(f)	10/ 7/30	-------	-------	-------	289	50	-------	-------	-------	-------	-------
					(f)	6/ 8/31	-------	-------	-------	293	43	-------	-------	-------	-------	-------
					(d)	7/ 7/31	-------	-------	-------	278	51	[b]115	-------	-------	-------	-------
B-10n-1-6	City of Los Angeles, Berryman Well 1. SW. of Culver City; 100 feet SW. of Berryman Ave., 500 feet SE. of Washington Blvd. Use: Municipal.	2589A	43	x	(f)	4/ 3/30	-------	-------	-------	227	35	-------	-------	-------	-------	-------
					1271	8/ 8/32	94.3	0.08	26	324	77	131	0	90	38	60
B-10o-1-6	American States Water Service Co. (formerly Peoples Water Co.), Plant 3, Well 6. Culver City; 265 E. of Sepulveda Blvd., 388 feet N. of Washington Blvd. Use: Municipal. Casing: 18 inches. Perforated 164-222.	2589B	53	*x402	(f)	10/ 7/30	-------	-------	-------	281	59	-------	-------	-------	-------	-------
B-10p-1-6	Guy Beringhely. Palms; 125 feet W. of Overland Blvd., 190 feet N. of Venice Blvd. Use: Domestic. Casing: 10 inches.	2598	84	x80	1364	9/ 7/32	53.3	0.16	-------	241	46	-------	-------	-------	-------	-------
B-13f-1-7	Leo Youngworth. S. of Culver City; 1,300 feet E. of Overland Ave., from point 0.33 miles SE. of Jefferson Blvd., 80 feet S. of channel in bottom of small canyon. Use: Irrigation.	2619A	135	---------	892	3/25/32	232	0.78	43	445	467	182	0	163	66	237
B-23a-1-5	Venice Consolidated Water Co., Well 10. Venice; 75 feet N. of Venice Blvd., 40 feet W. of Pen Mar Ave. Use: Formerly municipal, dismantled in 1932. Casing: 16 inches. Gravel and sand 7-263. Lab. No. 1263 collected with depth sampler from bottom of well.	1240A	27	*x270	(f)	4/ 3/30	-------	-------	-------	466	195	-------	-------	-------	-------	-------
					1263	8/ 9/32	117	0.08	23	287	124	209	1	114	50	66
B-23b-1-5	W. M. Humes. Venice; 120 feet SW. of Lincoln Blvd., 150 feet SE. of Couer D Alene. Use: Irrigation. Casing: 12 inches. Perforated from bottom up to top of water.	1240B	24	*210	(f)	4/ 3/30	-------	-------	-------	434	64	-------	-------	-------	-------	-------
					415	10/ 9/31	249	0.14	25	351	462	325	16	240	97	151
B-23c-1-5	Venice Consolidated Water Co., Well 11. Venice; 75 feet S. of Zanja St., 30 feet W. of Walnut St. Use: Municipal, standby. Casing: 18 inches. Gravel 55-67; 85-97; 127-136; 211-277.	1250	20	*x277	(f)	10/ 7/30	-------	-------	-------	336	188	-------	-------	-------	-------	-------
B-23d-1-6	Venice High School, Well 1. Venice; 500 feet S. of Venice Blvd., 600 feet E. of Walgrove St. Use: Domestic and irrigation, standby plant. L. A. D. of W. & P. No. 9-B-16.	1250A	35	200	(e)	5/ 2/30	-------	-------	24	[a]286	65	204	-------	125	24	[c]59
					(e)	6/ 3/30	-------	-------	23	254	60	218	-------	117	26	[c]56
					(e)	3/ 2/31	-------	-------	34	[a]272	77	210	-------	100	28	[c]85
B-23e-1-6	Brentwood Dairy. Venice; 150 feet E. of Del Rey Ave., 200 feet S. of Beach St. Use: Industrial, cooling and washing bottles.	1250B	20	200	(f)	4/ 1/30	-------	-------	-------	458	131	-------	-------	-------	-------	-------
					(f)	6/ 8/31	-------	-------	-------	309	781	-------	-------	-------	-------	-------
					416	10/ 9/31	312	0.14	25	320	604	492	1	302	113	191
					883	3/23/32	351	0.24	24	320	770	541	Tr.	347	145	218
					(f)	4/29/32	-------	-------	-------	317	746	-------	-------	-------	-------	-------
					970	5/12/32	346	0.12	23	317	772	516	Tr.	355	145	199
					1036	6/ 3/32	346	0.12	-------	314	763	-------	-------	-------	-------	-------
					1140	7/ 5/32	330	0.09	-------	308	719	-------	-------	-------	-------	-------
					1264	8/ 8/32	319	0.15	25	314	669	485	Tr.	299	151	207
					1464	10/10/32	294	0.16	-------	311	596	-------	-------	-------	-------	-------
					1529	11/ 3/32	283	0.16	26	311	566	381	1	265	112	179
					1590	12/13/32	286	0 23	-------	308	584	-------	-------	-------	-------	-------

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium: Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-23f-1-6	Venice High School, Well 2. Venice; 500 feet S. of Venice Blvd., 580 feet E. of Walgrove St., 20 feet W. of Well 1. Use: Domestic and irrigation. Casing: 6 inches. L. A. D. of W. & P. No. 9-B-17.	1250C	35	250	(e)	11/ 5/29			40	373	64	214		104	27	c114
					(e)	12/ 6/29			9	300	64	207		166	22	c22
					(e)	4/ 2/30			13	318	72	209		166	21	c36
					(e)	9/ 3/30			34	a304	68	207		112	22	c88
					(e)	10/ 2/30			22	314	66	206		113	26	c58
					(f)	10/ 7/30				316	63					
					(e)	11/ 8/30			50	273	60	205		57	29	c119
					(e)	12/ 2/30			25	298	58	208		123	24	c63
					(e)	1/ 5/31			43	298	60	211		96	18	c108
					(e)	1/ 8/31			29	a300	64	206		112	27	c74
					(e)	2/ 9/31			36	261	62	210		83	30	c87
					(e)	4/ 1/31			37	331	82	212		113	25	c102
					(f)	6/ 8/31				307	60					
					372	10/ 1/31	101	0.07	25	320	59	201	Tr.	99	45	65
					(f)	12/ 8/31				312	64					
					(f)	4/27/32				322	64					
B-23m-1-6	Frank Coon. Venice; 150 feet E. of Del Rey Ave., 250 feet S. of Beach Ave., 50 feet SE. of B-23e-1-6. Use: Domestic. Casing: 12 inches.	1250D	20		(f)	6/ 8/31				281	1,058					
B-24a-J-6	Del Rey Land and Water Co., Well 2. E. of Venice; 1,000 feet SE. of intersection of Thatcher Drive and Inglewood line of P. E. Ry. from Venice, 150 feet SW. of P. E. Ry. Use: Irrigation. Casing: 12 inches. L. A. D. of W. & P. No. 9-B-21.	1251A	14	x145	(e)	11/ 5/29			33	503	144	518		222	53	c173
					(e)	12/ 6/29			14	504	156	562		290	79	c77
					(e)	5/ 2/30			31	429	144	357		160	59	c131
					(e)	9/ 3/30			17	360	156	555		255	66	c85
					(e)	10/ 2/30			12	447	148	555		279	77	c64
					(e)	11/ 8/30			24	460	160	544		296	35	c131
					(e)	2/ 9/31			34	483	177	395		182	59	c165
					(e)	3/ 2/31			35	508	234	591		228	76	c221
					(e)	4/ 1/31			27	497	234	596		257	84	c171
					374	10/ 1/31	189	0.17	27	473	180	408	11	187	74	131
B-24b-J-6	Del Rey Land and Water Co., Well 1. E. of Venice; 1,000 feet SE. of intersection of Thatcher Drive and Inglewood line of P. E. Ry. from Venice, 200 feet SW. of P. E. Ry. Use: Irrigation. Casing: 14 inches. L. A. D. of W. & P. No. 9-B-20.	1251B	14	176	(e)	1/ 8/30			21	488	130	339		235	37	c90
					(e)	4/ 2/30			5	429	128	358		262	50	c21
					(e)	6/ 3/30			14	267	160	581		245	70	c69
					(e)	12/ 2/30			46	472	200	661		264	19	c285
					373	10/ 1/31	226	0.17	26	525	192	573	35	235	91	154
B-24c-J-6	Edgemar Farms. E. of Venice; 80 feet SE. of Maxella Ave., 50 feet SW. of Del Rey Ave. Use: Domestic and dairy stock.	1251C	17	185	(f)	4/ 1/30				311	110					
					417	10/ 9/31	292	0.18	28	518	266	835	39	312	97	209
					(f)	4/29/32				697	327					
B-24d-J-6	Mr. Hippert. E. of Venice; 80 feet NW. of Maxella Ave., 200 feet NE. of Del Rey Ave. Use: Irrigation. Perforated 25-45; 63-73.	1251D	19	* 79	(f)	4/ 1/30				966	557					
					(f)	4/29/32				693	291					
B-24j-J-6	Los Angeles County Flood Control District, Test Well 4. SE. of Venice; 500 feet SW. of junction of Jefferson Blvd. and Culver Blvd., W. of P. E. Ry. Use: L. A. C. F. C. D. test well. Casing: 6 inches. Sampled at 20, 45, 65, 85, 105, and 110 feet depths, respectively.	1253	5	110	(f)	4/20/31					3,980					
					(f)	4/20/31					220					
					(f)	4/20/31					160					
					(f)	4/20/31					227					
					(f)	4/20/31					185					
					(f)	4/20/31					973					
B-25-J-6	Washington Park Mutual Water Co. Venice; 100 feet S. of Washington Blvd. and halfway between McConnell and Mildred Sts. Use: Domestic. Casing: 12 inches, in 32-foot pit.	1260	41	x108	(f)	4/ 3/30				554	252					
					(f)	10/ 7/30				325	50					
					(f)	6/ 8/31				350	64					
					418	10/ 9/31	98.6	0.11	27	284	59	151	14	93	40	67
					(f)	4/27/32				347	64					
B-25a-1-6	Uchida Co. E. of Venice; 100 feet E. of Centinella Ave., 500 feet N. of Washington Blvd. Use: Domestic, nursery stock and vegetables. Casing: 6 inches.	1270	48	(x)	(f)	4/ 1/30				391	479					
					(f)	10/ 7/30				262	64					
					(f)	6/ 8/31				280	71					
					408	10/ 9/31	95.4	0.06	24	284	78	167	2	94	42	58
					(f)	4/27/32				293	106					
B-25b-1-6	Mrs. Louise Smith. E. of Venice; 140 feet E. of Grandview Ave., 325 feet N. of Washington Blvd. Use: Domestic. Casing: 14 inches. Perforated 96-100.	1270A	49	x141	410	10/ 9/31	117	0.11		363	87					
B-25c-1-6	Suburban Mutual Water Co. E. of Venice; 250 feet S. of intersection of Washington Blvd. and Centinella Ave. Use: Domestic.	1270B	42		(f)	4/ 1/30				348	110					
					(f)	6/13/31				328	57					
					409	10/ 9/31	98.2	0.10		339	62					
					(f)	4/29/32				332	78					
B-25d-1-6	Suburban Mutual Water Co. E. of Venice; 70 feet S. of Short St., 120 ft. W. of Centinella Ave. Use: Domestic.	1270C	31		(f)	6/13/31				453	142					
					(f)	4/29/32				469	142					

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-26-J-6	Brentwood Dairy. E. of Venice; 60 feet N. of Maxella Ave., 100 feet E. of Ocean Park Ave. Use: Stock and irrigation. Not used for drinking.	1261	22	- - - -	(f)	4/ 1/30	- - - -	- - - -	- -	604	89	-	- -	- -	- -	- - -
					414	10/ 9/31	359	0.43	35	894	337	674	133	319	152	347
					(f)	4/29/32	-	- -	- - - - - -	1,000	390	-	- - -	- - - -	- - - - - -	- - - - - -
B-26a-J-6	H. Michael, Well 2. E. of Venice; 20 feet S. of Maxella Ave., 30 feet E. of Redwood Drive. Use: Irrigation. Casing: 14 inches. Perforated 120-124; 150-171. L. A. D. of W. & P. No. 9-B-23.	1261A	24	*207	(f)	4/ 1/30	- - - - - -	- - - - - -	- - - - - -	300	67	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
					(e)	3/ 2/31	- - - - - -	- - - - - -	56	355	121	288	- - - - - -	72	38	e196
					413	10/ 9/31	129	0.19	- - - - - -	412	83	- - - -	- - - -	- - - - - -	- - - - - -	- - -
					(f)	4/29/32	- - - - - -	- - - - - -	- - - - - -	449	135	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- -
B-26b-J-6	N. Nojima, Lessee. E. of Venice; 30 feet S. of Panama St., 150 feet W. of Beethoven St., 550 feet E. of Alla Road. Use: Irrigation.	1271	13	175	(f)	4/ 1/30	- - - - - -	- - - - - -	- - - - - -	333	64	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
					(f)	10/13/30	- - - - - -	- - - - - -	- - - - - -	495	182	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -
					(f)	4/29/32	- - - -	- - - - - -	- - - - - -	537	213	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - -
B-26c-J-6	Mr. Mitani, Lessee. E. of Venice; 1,700 feet NE. of intersection of P. E. Ry. and Culver Blvd. at Alla Station. 100 feet SE. of Culver Blvd., 200 feet SW. of Mozart Ave. Use: Irrigation. L. A. D. of W. & P. No. 9-B-26.	1271A	16	- - - -	(f)	4/ 1/30	- - - - - -	- - - - - -	- - - - - -	342	898	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
					(e)	10/ 2/30	- - - - - -	- - - - - -	37	409	178	357	- - - - - -	196	28	e163
					(f)	10/13/30	- - - -	- - - - - -	- - - - - -	495	178	- - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
					(f)	6/ 8/31	- - - - - -	- - - - - -	- - - - - -	408	208	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
					412	10/ 9/31	292	0.58	37	552	206	593	178	256	98	278
					(f)	4/29/32	- - - - - -	- - - - - -	- - - - - -	493	192	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
B-26e-J-6	H. Michael, Well 1. E. of Venice; 540 feet S. of Maxella Ave., 150 feet W. of Michael St., projected southerly. Use: Irrigation. Casing: 14 inches. Perforated from 170 feet up to top of water. L. A. D. of W. & P. No. 9-B-24.	1261B	22	*201	(e)	11/ 5/29	- - - - - -	- - - - - -	42	430	124	263	- - - - - -	130	34	e154
					(e)	12/ 6/29	- - - - - -	- - - - - -	35	420	96	233	- - - - - -	121	40	e117
					(e)	4/ 2/30	- - - - - -	- - - - - -	29	404	130	296	- - - - - -	153	50	e108
					(e)	6/ 3/30	- - - - - -	- - - - - -	57	400	140	273	- - - - - -	92	29	e211
					(e)	9/ 3/30	- - - - - -	- - - - - -	29	400	138	307	- - - - - -	175	37	e114
					(e)	10/ 2/30	- - - - - -	- - - - - -	67	450	138	310	- - - - - -	22	57	e275
					185	7/31/31	170	- - - - - -	30	467	144	352	0	157	72	132
					377	10/ 1/31	176	0.13	30	473	147	374	11	159	72	136
B-26f-J-6	Del Rey Land and Water Co., E. of Venice; 100 feet N. of P. E. Ry. to Playa Del Rey and 50 feet W. of Y track at Alla Station on P. E. Ry. Use: Irrigation. Casing: 14 inches. Perforated 35-50; 75-90. Water has H_2S odor.	1271C	10	x150	380	10/ 1/31	158	0.24	31	518	190	174	0	144	60	126
B-26h-J-6	Del Rey Land and Water Co., Well 3. E. of Venice; 150 feet S. of P. E. Ry., 1,000 feet easterly along P. E. Ry. to Venice from intersection with Culver Blvd. Use: Irrigation. Casing: 12 inches. Water has H_2S odor.	1261C	10	140	375	10/ 1/31	207	0.28	31	522	163	486	27	193	83	167
B-27a-J-6	Henry J. Kidson. E. of Venice; 0.27 miles NE. of Lincoln Blvd. (Roosevelt Highway), 0.22 miles NW. of Jefferson Blvd., 60 feet E. of Bay St., 80 feet S. of S. levee of Ballona Creek. Use: Domestic and irrigation. Casing: 12 inches.	1272A	10	20	419	10/ 9/31	265	1.40	53	906	373	172	1	149	79	356
					(f)	4/29/32	- - - - - -	- - - - - -	- - - - - -	899	369	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
B-27b-J-6	Henry J. Kidson. E. of Venice; 0.36 miles NE. of Lincoln Blvd. (Roosevelt Highway), 0.22 miles NW. of Jefferson Blvd., 550 feet E. of Bay St. on S. levee of Ballona Creek. Use: Irrigation. Casing: 14 inches. L. A. D. of W. & P. No. 9-B-40.	1272B	12	150	(e)	4/ 3/30	- - - - - -	- - - - - -	29	548	96	28	- - - - - -	116	36	e81
					(e)	9/ 3/30	- - - - - -	- - - - - -	23	e364	108	24	- - - - - -	107	24	e50
					(e)	10/ 2/30	- - - - - -	- - - - - -	36	590	106	11	- - - - - -	98	37	e103
					420	10/ 9/31	120	0.30	39	616	106	17	0	89	46	123
B-27c-J-6	Joseph Mesmer, La Ballona Ranch Well 7, Plant 4. SE. of Venice; 0.15 miles SE. of Jefferson Blvd., 0.22 miles SW. of Mozart St. Use: Irrigation. Casing: 16 inches. Perforated 40-68. L. A. D. of W. & P. No. 9-B-41.	1272C	9	*176	(e)	10/21/29	- - - - - -	- - - - - -	40	475	120	90	- - - - - -	83	45	e119
					(e)	12/ 5/29	- - - - - -	- - - - - -	38	432	124	108	- - - - - -	84	45	e113
					(e)	1/ 7/30	- - - - - -	- - - - - -	49	408	138	156	- - - - - -	91	30	e157
					(e)	4/ 2/30	- - - - - -	- - - - - -	30	418	130	160	- - - - - -	129	40	e94
					(e)	5/ 2/30	- - - - - -	- - - - - -	39	405	132	109	- - - - - -	85	42	e114
					(e)	6/ 3/30	- - - - - -	- - - - - -	31	400	120	131	- - - - - -	117	36	e89
					(e)	9/ 3/30	- - - - - -	- - - - - -	37	e339	126	117	- - - - - -	100	28	e98
					(e)	10/ 2/30	- - - - - -	- - - - - -	39	404	124	105	- - - - - -	91	44	e118
					(e)	3/ 2/31	- - - - - -	- - - - - -	44	355	185	205	- - - - - -	92	48	e156
					(e)	4/ 1/31	- - - - - -	- - - - - -	44	437	170	165	- - - - - -	94	49	e154
					(f)	6/ 8/31	- - - - - -	- - - - - -	- - - - - -	457	135	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -
					379	10/ 1/31	132	0.21	37	476	126	144	0	87	61	128
					(f)	4/29/32	- - - - - -	- - - - - -	- - - - - -	469	124	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -

TABLE 7. WELLS AND SURFACE WATERS IN VENICE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-27d-J-6	Joseph Mesmer, La Ballona Ranch Well 9, Plant 7. SE. of Venice, 0.14 miles NE. of Lincoln Blvd. (Roosevelt Highway), 0.45 miles SE. of Jefferson Blvd. Use: Irrigation. Casing: 10 inches. Perforated 55-67.	1273	20	*150	(f)	4/ 3/30	-------	-------	-------	517	263	-------	-------	-------	-------	-------
					(f)	10/13/30	-------	-------	-------	344	153	-------	-------	-------	-------	-------
					(f)	6/ 8/31	-------	-------	-------	409	178	-------	-------	-------	-------	-------
					421	10/ 9/31	160	0.22	30	430	172	284	0	136	70	127
					897	3/30/32	192	0.31	28	473	209	414	4	173	85	142
					971	5/12/32	175	0.44	29	451	190	327	6	152	82	132
					1030	6/ 3/32	181	0.28	-------	460	195	-------	-------	-------	-------	-------
					1141	7/ 6/32	175	0.24	-------	454	181	-------	-------	-------	-------	-------
					1265	8/ 8/32	172	0.16	31	457	181	318	6	146	74	135
					1358	9/ 6/32	169	0.26	-------	442	170	-------	-------	-------	-------	-------
					1465	10/10/32	166	0.25	-------	442	170	-------	-------	-------	-------	-------
					1530	11/ 3/32	170	0.27	30	451	172	301	4	139	74	131
					1591	12/13/32	180	0.33	-------	479	190	-------	-------	-------	-------	-------
B-27e-J-6	Del Rey Land and Water Co., Windmill Well. E. of Venice; 900 feet S. of P. E. Ry. to Venice, 800 feet NW. of Culver Blvd. Use: Hothouse and washing vegetables. Casing: 12 inches.	1262	8	x120	376	10/ 1/31	186	0.30	38	656	213	171	0	143	71	181
B-27f-J-6	Joseph Mesmer, Plant 5. SE. of Venice; 0.08 miles SE. of Jefferson Blvd., 0.25 miles NE. of Lincoln Blvd. (Roosevelt Highway). Use: Irrigation. Water has H_2S odor.	1272D	8	-------	378	10/ 1/31	220	0.30	40	662	373	112	0	131	90	217
B-29b-I-6	E. S. Merrill Sanitarium. E. of Venice; 100 feet S. of Culver Blvd., 600 feet E. of Centinella Ave. Use: Domestic. Casing: 12 inches.	1280B	31	x120	(f)	6/13/31	-------	-------	-------	382	284	-------	-------	-------	-------	-------
					411	10/ 9/31	157	0.19	36	403	202	216	0	127	56	144
					890	3/25/32	171	0.24	35	393	259	231	4	144	60	152
					(f)	4/27/32	-------	-------	-------	405	334	-------	-------	-------	-------	-------
					972	5/12/32	187	0.26	33	403	304	215	7	154	69	154
					1037	6/ 3/32	172	0.23	-------	400	250	-------	-------	-------	-------	-------
					1142	7/ 5/32	163	0.23	-------	400	213	-------	-------	-------	-------	-------
					1266	8/ 8/32	163	0.22	36	396	215	219	7	129	57	145
					1407	9/12/32	157	0.17	-------	393	201	-------	-------	-------	-------	-------
					1466	10/10/32	159	0.23	-------	396	204	-------	-------	-------	-------	-------
					1531	11/ 3/32	152	0.25	37	393	180	209	4	120	51	137
					1592	12/13/32	152	0.27	-------	390	187	-------	-------	-------	-------	-------
B-30-J-6	Mesmer City Corporation, Ltd., Mesmer City Well 1. E. of Venice; 150 feet E. of Inglewood Blvd., 120 feet S. of Port Road. Use: Municipal. Casing: 16 inches.	1291	20	x402	(f)	6/13/31	-------	-------	-------	317	43	-------	-------	-------	-------	-------
					182	7/30/31	92.4	-------	25	314	38	184	0	88	40	59
					(f)	4/29/32	-------	-------	-------	322	43	-------	-------	-------	-------	-------
B-31-J-6	Loyola University. SE. of Venice; 70 feet E. of Fordham Road, 0.35 miles N. of 80th St., 0.75 miles N. of Manchester Ave., on University Grounds. Use: Domestic and irrigation. Casing: 18 inches.	1282	136	x400	(f)	10/13/30	-------	-------	-------	362	79	-------	-------	-------	-------	-------
					(f)	6/ 8/31	-------	-------	-------	362	87	-------	-------	-------	-------	-------
					895	3/29/32	88.0	0.24	45	372	87	39	1	49	32	97
B-31a-J-6	Mesmer City Corp., Ltd. (formerly Joseph Mesmer), Mesmer's La Ballona Rancho Well 6, Plant 2. SE. of Venice; 500 feet W. of Centinella Blvd., 200 feet E. of Grosvenor Blvd., 50 feet S. of Gabray St., 0.2 miles S. of Jefferson Blvd. Use: Irrigation. Casing: 16 inches. Perforated 30-75. Water has H_2S odor.	1292A	13	*200	184	7/31/31	176.2	-------	28	436	142	437	0	153	82	128
B-31b-J-6	Joseph Mesmer, La Ballona Ranch Well 5, Plant 3. SE. of Venice; 60 feet SE. of Jefferson Blvd., 0.14 miles NE. of Mozart St. Use: Irrigation. Casing: 16 inches. Perforated 23-92; 188-206. Water has H_2S odor.	1282A	11	*239	381	10/ 1/31	124	0.17	38	497	130	95	0	92	48	120
S2618-1-7	Ballona Creek, Culver City. Sampled at L. A. C. F. C. D. Staff gage station No. 117, at Duquesne St. crossing. Discharge 3 second feet (estimated). Discharge during summer usually penetrates into creek bottom before reaching tide water.	S2618	55	-------	236	8/19/31	193.5	-------	59	[a]360	350	201	6	89	45	272

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Mangesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[e] Analysis by City of Los Angeles, Department of Water and Power Laboratory; Carl Wilson, Director.
[f] Analysis by Los Angeles County Flood Control District, Los Angeles.

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-6i-H-7	City of Beverly Hills, La Cienega Well 1. Beverly Hills; 200 feet S. of Chfton Way, 50 feet W. of La Cienega Blvd. Use: Municipal. Casing: 14 inches. Perforated 156-174; 206-334; 258-271.	2623B	146	*290	(d)	4/20/31	-------	-------	-------	470	200	b27	-------	-------	-------	-------
B-6k-H-6	City of Beverly Hills, Roxbury Park Well 2. Beverly Hills; 200 feet S of Olympic Blvd., 25 feet W. of Roxbury Drive. Use: Irrigation. Casing: 12 inches. Perforated 318-450.	2594B	225	*450	1618	12/22/32	472	1.21	29	396	1,363	171	0	405	185	341
B-11e-H-7	Beverly Hills Ice & Cold Storage Co. Beverly Hills; 230 feet N. of 3d St., 210 feet W. of Maple Drive. Use: Industrial. Casing: 12 inches. Gravel 162-170; 171-173; 175-180; 448-462; 504-520; 532-562.	2602C	230	*576	386	10/ 2/31	64 8	0.05	34	229	36	95	3	52	27	55
B-11f-G-7	City of Beverly Hills. NE. of Beverly Hills; 65 feet N. of Harratt St., 150 feet W. of Palm Ave. Use: Municipal. Casing: 12 inches. Gravel 172-180.	2611	300	*270	387	10/ 2/31	91.3	1 01	67	333	105	38	6	31	19	148
B-12-H-7	Adohr Creamery Co. S. of Beverly Hills; 200 feet W. of La Cienega Blvd., 200 feet S. of 18th St. Use: Not used. Casing: 16 inches. Perforated 194-250. Sampled at 65, 200 and 320-foot depths respectively.	2625	100	*x362	(e)	3/ 5/32	-------	-------	-------	263	43	-------	-------	-------	-------	-------
					(e)	3/ 5/32	-------	-------	-------	307	43	-------	-------	-------	-------	-------
					(e)	3/ 5/32	-------	-------	-------	469	128	-------	-------	-------	-------	-------
B-12a-I-7	Pacific Western Oil Co. E. of Culver City; 150 feet W. of Moynier Lane, 80 feet N. of southerly branch of Ballona Creek. Use: Domestic and industrial. Casing: 12 inches. L. A. D. of W. & P. No 22-C-16.	2626A	82	x720	(b)	3/30/31	-------	-------	32	214	48	50	-------	41	24	c43
					(e)	3/ 1/32	-------	-------	-------	237	36	-------	-------	-------	-------	-------
					(e)	4/27/32	-------	-------	-------	230	36	-------	-------	-------	-------	-------
B-12d-I-7	Shell Oil Co. E. of Culver City; 25 feet E. of Moynier Lane, 400 feet N. of Santous crossing of P. E. Ry. In pump station yard of Shell Oil Co. Use: Domestic and industrial. Casing: 14 inches.	2627	95	(x)	(e)	11/12/31	-------	-------	-------	429	256	-------	-------	-------	-------	-------
					(e)	3/ 1/32	-------	-------	-------	453	243	-------	-------	-------	-------	-------
					(e)	4/29/32	-------	-------	-------	434	250	-------	-------	-------	-------	-------
					1002	5/16/32	142	0.56	60	442	254	2	7	57	37	201
					1039	6/ 4/32	143	0.58	59	445	254	2	4	59	39	203
					1146	7/ 5/32	144	0.58	-------	445	256	-------	-------	-------	-------	-------
					1272	8/ 8/32	144	0.62	61	448	258	1	2	57	35	205
					1365	9/ 7/32	144	0.56	-------	a439	250	-------	-------	-------	-------	-------
					1470	10/10/32	144	0.63	-------	445	254	-------	-------	-------	-------	-------
					1535	11/ 7/32	143	0.63	60	442	248	5	2	59	34	196
					1593	12/13/32	143	0.64	-------	448	248	-------	-------	-------	-------	-------
B-12e-I-7	American States Water Service Co E. of Culver City; 30 feet E. of Sentney Ave., 300 feet S. of Jacob St. Timber-covered pit. Use: Not used. Casing: 12 inches. Sampled at 85-foot depth	2627A	85	-------	(e)	3/ 1/32	-------	-------	-------	352	106	-------	-------	-------	-------	-------
B-12f-I-7	City of Beverly Hills, Castle Tract Well 2. E. of Culver City; 1,000 feet S. of Adams Blvd., 150 feet E. of Spaulding St., 500 feet E. of Moynier Lane at end of Jefferson and Adams Blvds. storm drains. Use: Municipal. Casing: 26 inches. Perforated 200-294.	2636	82	*317	(e)	3/ 1/32	-------	-------	-------	295	96	-------	-------	-------	-------	-------
					(e)	4/29/32	-------	-------	-------	332	78	-------	-------	-------	-------	-------
B-12n-I-7	American States Water Service Co., Plant 5. NE. of Culver City; 290 feet S. of Washington Blvd., 60 feet E. of Sentney Ave. Use: Municipal. Casing: 30 inches. Perforated 152-160; 174-199; 214-266.	2626D	88	*266	(d)	4/20/31	-------	-------	-------	390	103	b20	-------	-------	-------	-------
					384	10/ 2/31	102	0.31	52	421	119	24	0	54	32	132
					(e)	1/30/32	-------	-------	-------	429	114	-------	-------	-------	-------	-------
B-12t-H-7	City of Beverly Hills, La Cienega Well 2. S. of Beverly Hills; 500 feet N. of Venice Blvd., 50 feet W. of La Cienega Blvd. Use: Municipal. Casing: 26 inches. Perforated 120-150; 193-260; 278-300.	2626E	94	*340	(d)	4/20/31	-------	-------	-------	354	86	b45	-------	-------	-------	-------
B-12u-I-7	City of Beverly Hills, Castle Tract Well 1. S. of Beverly Hills; 1,000 feet S. of Adams Blvd., 25 feet E. of Genesee Ave. Use: Municipal. Casing: 26 inches. Perforated 201-320.	2626F	82	*333	(d)	4/20/31	-------	-------	-------	354	160	b100	-------	-------	-------	-------
B-13e-I-7	M. Moynier, Well 1. E. of Culver City; 1,200 feet S. of Higuera St., 200 feet W. of Moynier Lane. Use: Irrigation. Casing: 12 inches. Perforated 59-80.	2628	119	*120	385	10/ 2/31	469	0.64	35	448	1,243	290	0	352	168	395
					(e)	11/12/31	-------	-------	-------	449	1,321	-------	-------	-------	-------	-------
					(e)	3/ 1/32	-------	-------	-------	449	1,292	-------	-------	-------	-------	-------
					(e)	4/29/32	-------	-------	-------	410	1,363	-------	-------	-------	-------	-------
B-13e-I-7	M. Moynier, Well 2, E. of Culver City; 650 feet S. of Higuera St., 200 feet W. of Moynier Lane. Use: Domestic. Casing: 14 inches. Perforated 20-38. Sample for D. W. R. Lab. No. 484 was dipped from open casing.	2628A	105	*237	484	10/22/31	539	0.53	58	204	1,677	30	0	207	144	696
					(e)	11/12/31	-------	-------	-------	342	2,024	-------	-------	-------	-------	-------
					(e)	3/ 1/32	-------	-------	-------	390	2,272	-------	-------	-------	-------	-------
					(e)	4/29/32	-------	-------	-------	c90	2,095	-------	-------	-------	-------	-------

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium (Na x 100 / Ca + Mg + Na)	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-13g-I-7	Mr. Collins. E. of Culver City; 250 feet S. of Higuera St., 80 feet W. of Lenawee Ave. Use: Irrigation. Three-foot dug well.	627G	97	26	(e)	3/ 1/32	-------	-------	-------	425	5,183	-------	-------	-------	-------	-------
					884	3/23/32	1,477	0.45	20	448	5,414	52	0	1,390	724	724
					(e)	4/29/32	-------	-------	-------	434	5,382	-------	-------	-------	-------	-------
B-13h-I-7	Mr. Collins. SE. of Culver City; 1,300 feet S. of Higuera St., 150 feet W. of Lenawee St. In pump house in back of large white stucco residence. Use: Domestic. Three-foot dug well.	2628B	127	25	(e)	3/ 1/32	-------	-------	-------	352	728	-------	-------	-------	-------	-------
					(e)	4/29/32	-------	-------	-------	366	650	-------	-------	-------	-------	-------
B-14-G-8	Home Ice & Cold Storage Co. Hollywood; 80 feet E. of La Brea Ave., 175 feet N. of Santa Monica Blvd. Use: Industrial. Casing: 12 inches, in 20-foot concrete pit. Perforated 100-110.	2650	289	x110	388	10/ 2/31	87.8	0.29	60	238	130	55	6	34	23	126
B-15q-I-8	Blue Bird Laundry. Los Angeles; 400 feet E. of Crenshaw Blvd., 150 feet N. of Exposition Blvd. Use: Laundry supply.	2667B	110	---------	1,273	8/ 8/32	51.0	0.84	50	204	36	42	2	35	12	62
B-16-I-8	Los Angeles Investment Co., E. Irrigation Well. Los Angeles; 100 feet N. of 48th St., 90 feet W. of 4th Ave. Use: Formerly irrigation, not used for domestic or municipal purposes. Casing: 12 inches. Perforated 30-48; 66-75 First operation of three wells after two years' idleness. Test run to develop present character of water. Sample is composite of three wells, B-16-I-8, B-16a-I-8, and B-16b-I-8, which are inter-connected but can be operated separately by use of valves installed.	2679	128	x300	382	10/ 2/31	190	0.14	18	375	355	141	6	227	63	82
B-16c-I-8	Los Angeles Investment Co. Los Angeles; 175 feet N. of 48th St., 90 feet W. of 4th Ave. Use: Municipal. Casing: 16 inches. Perforated 311-331; 334-347; 362-374; 417-441.	2679C	128	*x608	(f)	5/10/28	-------	-------	26	272	131	140	-------	116	29	c68
					383	10/ 2/31	64.4	0.09	27	241	30	87	4	70	21	44
B-16d-I-8	Los Angeles Investment Co. Los Angeles; 40 feet N. of 48th St., 125 feet W. of 4th Ave. Use: Municipal. Casing: 16 inches. Perforated 410-437; 622-632; 656-658; 666-688; 843-864; 969-973. D. W. R. Lab. No. 451 is a sample from driller's bucket of water from stratum at 622 to 632 feet. L. A. D. of W. & P. No. 22-D-15.	2679D	127	*1015	451	10/16/31	73.3	0.30	33	183	83	108	0	66	23	58
					(h)	10/16/31	-------	-------	7	a230	80	116	-------	110	29	c13
					(h)	11/ 9/31	-------	-------	19	a47	111	129	-------	98	5	c29
					(h)	11/12/31	-------	-------	14	189	35	82	-------	79	12	c19
					(h)	11/13/31	-------	-------	12	a236	30	12	-------	96	12	c18
					(h)	11/20/31	-------	-------	5	130	34	83	-------	77	9	c5
B-19f-I-9	California Consumers Co., Well 3. Los Angeles; 180 feet NW. of Hill St., 525 feet SW. of Jefferson Blvd. Use: Industrial (treated before use). Casing: 14 inches. Perforated 360-380.	2728C	195	*408	389	10/ 2/31	73.8	0.11	27	281	44	92	6	81	24	52
B-21b-H-10	California Consumers Co. Los Angeles; 200 feet S. of 5th St., 515 feet E. of Alameda St. Use: Industrial (treated for ice-making). Casing: 18 inches. Gravel 95-98; 109-114; 119-132.	2765B	258	*266	390	10/ 2/31	119	0.24	32	308	147	162	0	113	35	92
B-38-J-8	City of Inglewood, Well 7. Inglewood; 1,000 feet N. of Redondo Road, 600 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 100-115; 135-159; 177-191; 245-265.	1352	141	*x300	(d)	7/16/31	-------	-------	-------	239	36	b60	-------	-------	-------	-------
B-38a-J-8	City of Inglewood, Well 8. Inglewood; 1,250 feet N. of Redondo Blvd., 550 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 104-122; 184-187; 246-275.	1352A	141	*297	(d)	7/16/31	-------	-------	-------	258	34	b45	-------	-------	-------	-------
B-38b-J-8	City of Inglewood, Well 9. Inglewood; 1,100 feet N. of Redondo Blvd., 440 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 86-110; 113-149; 182-190; 242-265.	1352B	142	*290	(d)	7/16/31	-------	-------	-------	234	21	b50	-------	-------	-------	-------
B-38d-J-8	City of Inglewood, Well 11. Inglewood; 1,450 feet N. of Redondo Blvd., 750 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 104-117; 176-196; 246-269.	1352D	147	*1025	(d)	7/16/31	-------	-------	-------	234	29	b60	-------	-------	-------	-------
B-38e-J-8	City of Inglewood, Well 12. Inglewood; 1,350 feet N. of Redondo Blvd., 700 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 101-115; 122-130; 175-195; 239-260.	1352E	141	*282	(d)	7/16/31	-------	-------	-------	234	30	b60	-------	-------	-------	-------
B-38f-J-8	City of Inglewood, Well 13. Inglewood; 1,350 feet N. of Redondo Blvd., 950 feet E. of Prairie Ave. In City Park. Use: Municipal. Casing: 18 inches. Perforated 184-207; 246-254.	1352F	152	*300	(d)	7/16/31	-------	-------	-------	234	33	b54	-------	-------	-------	-------

TABLE 8. WELLS IN LOS ANGELES AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-42B-J-8	City of Inglewood. Inglewood; 60 feet N. of 80th St., 155 feet W. of 10th Ave. Use: Municipal. Casing: 18 inches. Perforated 244-285. Well first perforated at 1,047-1,087 feet (total depth 1,097 feet). D. W. R. Lab. No. 207 and Los Angeles Testing Lab. on 7/31/31 are analyses of water (dark amber in color) from this stratum, sampled during test run. Well was later sealed up to 321 feet and perforated at 244-285 feet. Later analyses are from the upper stratum. L. A. D. of W. & P. No. 10-B-18.	1373A	233	*321	(f)	7/31/31	--------	--------	94	1,254	144	17	0	16	8	[c]541
					207	8/ 3/31	201.2	--------	93	[a]1,266	66	18	0	19	8	479
					(h)	4/11/32	--------	--------	51	[a]178	42	48	--------	38	7	[c]60
					(f)	4/12/32	--------	--------	36	[a]225	2	35	0	40	11	[c]38
B-47j-K-8	Los Angeles County, Well 1. SE. of Inglewood; 100 feet S. of 106th St., 0.15 miles W. of Normandie Ave. Use: Domestic.	1395A	223	---------	861	3/28/32	48 8	0.14	37	201	23	58	0	48	12	47
B-50-1-9	City of Los Angeles, Figueroa and Slauson Pumping Plant 1. W. of Vernon; 75 feet N. of Slauson Ave., 100 feet W. of Figueroa St. Use: Municipal. Casing: 12 inches. Perforated 96-126; 406-434; 456-496.	1411	154	*x610	196	8/ 6/31	102.2	--------	18	308	75	163	13	117	32	43
B-55b-J-9	Goodyear Tire & Rubber Co., Well 3. Los Angeles; 1,250 feet W. of Central Ave. between car tracks on Gage Ave. at McKinley Ave. Brick pump house opposite Goodyear Tire & Rubber Co. garage. Use: Industrial. Casing: 18 inches. Perforated 93-125; 133-145; 156-170.	1431	162	*x260	198	8/ 6/31	111.8	--------	26	354	73	165	35	124	35	74
B-58d-K-9	American States Water Service Co., Delmar Plant (formerly Los Angeles Water Service Co. Well 4). NE. of Athens; 115 feet S. of 116th Place; 700 feet E. of San Pedro St. Use: Municipal. Perforated 165-175; 301-319; 390-425.	1437B	120	*x549	197	8/ 6/31	55.6	--------	30	220	23	72	0	57	15	40
B-59k-L-9	H. Hellmers. W. of Compton; 180 feet N. of Rosecrans Blvd., 250 feet E. of Avalon Blvd. Use: Irrigation. Casing: 14 inches. Gravel 136-140; 173-178; 279-300; 312-338; 348-356.	1439E	118	*362	200	8/ 6/31	47.0	--------	37	217	20	38	0	41	13	44
B-62c-J-9	City of Los Angeles, Green Meadows Well 1. W. of Watts; 55 feet E. of Wadsworth Ave., 75 feet N. of 99th St. Use: Municipal. Casing: 16 inches. Perforated 305-343; 537-552.	1445B	118	*x620	201	8/ 6/31	60.2	--------	27	235	27	81	2	65	18	41
B-65b-I-10	Pioneer Paper Co. Vernon; 15 feet S. of 55th St., 950 feet E. of Alameda Ave. Use: Industrial. Casing: 16 inches. Perforated 77-96; 284-305; 315-323; 426-432; 495-510.	1460B	183	*531	199	8/ 6/31	61 8	--------	28	235	27	90	2	65	18	43
B-66a-J-10	American States Water Service Co., Well N1. SW. of Huntington Park; 90 feet N. of Nadeau St., 70 feet E. of Walnut Drive. Use: Municipal. Casing: 14 inches.	1463	142	x195	205	8/ 6/31	102 2	--------	25	305	66	156	21	114	32	63
B-66c-J-10	Walnut Park Mutual Water Co., Well 4. S. of Huntington Park; 40 feet S. of Florence Ave., 245 feet E. of Santa Fe Ave. Use: Municipal. Casing: 20 inches. Perforated 928-1,600.	1472A	157	*x1600	204	8/ 6/31	56.7	--------	29	226	23	80	0	60	17	40
B-66f-J-10	Walnut Park Mutual Water Co., Well 2. S. of Huntington Park; 145 feet S. of Florence Ave., 500 feet E. of Santa Fe Ave. Use: Municipal. Casing: 12 inches.	1472D	157	666	203	8/ 6/31	69 6	--------	27	250	34	96	21	75	21	46
B-69c-K-10	City of Compton. Well 3. Compton; 30 feet N. of Hatchway Ave., 700 feet W. of Avanbe St. Use: Municipal. Casing: 12 inches.	1469A	77	x350	152	7/22/31	57.2	--------	32	220	23	81	1	60	16	45
					(d)	7/14/32	--------	--------	--------	232	27	[b]50	--------	--------	--------	--------
B-69h-L-10	City of Compton, Well 2. Compton; 60 feet W. of Tamarind St., 100 feet S. of Orange St. Use: Municipal. Casing: 12 inches.	1479	71	350	(d)	7/14/31	--------	--------	--------	232	25	[b]50	--------	--------	--------	--------
B-70-1-10	Mr. Winger. Vernon; 350 feet W. of Boyle Ave. (State St.), 275 feet S. of Fruitland Ave. Use: Domestic. Casing: 8 inches.	1480	185	x180	848	3/23/32	125	0 24	24	278	69	184	133	141	38	73
B-70b-J-10	City of Huntington Park. Well 4. Huntington Park; 340 feet S. of Slauson Ave., 75 feet E. of Miles Ave. (Soto St.). Use: Municipal. Casing: 18 inches.	1481	176	x900	(d)	7/21/31	--------	--------	--------	273	49	[b]70	--------	--------	--------	--------
B-71-J-10	City of Huntington Park, Well 5. Huntington Park; 25 feet E. of Miles Ave., 55 feet N. of Zoe Ave. Use: Municipal. Casing: 18 inches.	1482	163	x1246	(d)	7/21/32	--------	--------	--------	229	29	[b]45	--------	--------	--------	--------
-71a-J-10	Bell Water Co., Plant 1, Well 1. W. of Bell; 30 feet E. of U. P. R.R., 25 feet S. of Gage Ave. Use: Domestic. Casing: 12 inches. Perforated 112-130; 250-290.	1492	156	*x636	206	8/ 6/31	57.8	------	29	229	25	76	2	59	19	43

TABLE 8. WELLS IN LOS ANGELES AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10^5 at 25°C)	Boron ppm	Percent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-71e-J-10	City of Huntington Park, Well 6. SE. of Huntington Park; 30 feet S. of Florence Ave., 30 feet E of Salt Lake Ave. Use: Municipal. Casing: 18 inches.	1492B	142	x600	(d)	7/21/32	-------	-------	-------	239	32	b50	-------	-------	-------	-------
B-72c-J-10	City of Southgate, Well 2. Southgate; 35 feet S. of Ardmore Ave., 80 feet E. of Elizabeth St. Use: Municipal. Casing: 12 inches.	1494	122	x690	(d)	7/21/31	-------	-------	-------	210	28	b45	-------	-------	-------	-------
B-72g-K-10	Home Gardens Water Co. (Sidney Smith, owner). Southgate; 20 feet N. of Michigan Ave., 80 feet W. of Elizabeth Ave. Use: Municipal. Casing: 12 inches.	1495B	100	x732	202	8/ 6/31	72.6	-------	28	271	39	102	0	79	21	50
B-73c-K-10	City of Lynwood, Well 2. Lynwood; 80 feet S. of Lynwood Road, 0.14 miles W. of Long Beach Blvd. Use: Municipal. Casing: 16 inches. Perforated 93-135; 314-338	1487	85	*352	(d)	7/14/31	-------	-------	-------	280	45	b88	-------	-------	-------	-------
B-73e-K-10	Test hole. Lynwood; 5 feet W. of California Ave., 25 feet S. of Century Blvd.	1496	95	12	768	3/ 4/32	336	0.83	61	784	417	672	2	139	100	535
B-75-I-10	Maywood Mutual Water Co., Well 1 of 2. Maywood; 115 feet N. of 56th St., 30 feet W. of Loma Vista Ave. Use: Municipal. Casing: 16 inches. Perforated 362-371; 529-536; 548-557; 808-816; 852-870.	1500	168	*x1,333	(d)	7/14/31	-------	-------	-------	246	34	b28	-------	-------	-------	-------
B-75a-J-10	Maywood Mutual Water Co., Well 2 of 2. Maywood; 175 feet E. of Everett St., 100 feet N. of 60th St. Use: Municipal. Casing: 16 inches. Perforated 210-227; 488-503; 552-564; 839-846; 917-975.	1501	160	*x1,016	(d)	7/14/31	-------	-------	-------	234	29	b57	-------	-------	-------	-------
B-75b-J-10	Maywood Mutual Water Co., Well 1 of 1. Maywood; 290 feet S. of Slauson Ave., 250 feet W. of Gifford St. Use: Municipal. Casing: 12 inches. Perforated 844-889.	1501A	158	*x985	(d)	7/14/31	-------	-------	-------	242	28	b37	-------	-------	-------	-------
B-75f-I-11	Maywood Mutual Water Co., Well 2 of 3. Maywood; 237 feet E. of Heliotrope St., 30 feet SE. of Riverside Drive. Use: Municipal.	1520A	148	x	(d)	7/14/31	-------	-------	-------	242	45	b35	-------	-------	-------	-------
B-75h-J-11	Maywood Mutual Water Co., Well 3. Maywood; 150 feet E. of Heliotrope St., 140 feet N. of 57th St. Use: Municipal. Casing: 16 inches.	1521	145	x1,298	(d)	7/14/31	-------	-------	-------	244	33	b50	-------	-------	-------	-------
B-76f-J-11	Maywood Mutual Water Co., Well 1 of 3. Maywood; 130 feet W. of Prospect St., between Gage Ave. and Randolph St., at head of Filmore St. Use: Municipal. Casing: 12 inches. Perforated 130-134; 150-170; 270-280; 284-285.	1512	142	*x301	(d)	7/14/31	-------	-------	-------	236	29	b32	-------	-------	-------	-------
B-77a-J-10	City of Southgate, Well 3. Southgate; 35 feet S. of Ardmore Ave., 55 feet W. of Otis St. Use: Municipal. Casing: 12 inches.	1504	121	850	(d)	7/21/31	-------	-------	-------	234	30	b45	-------	-------	-------	-------
B-77b-J-11	City of Southgate (formerly Guy Neville), Well 7. NE. of Southgate; 60 feet SW. of U. P. R. R., halfway between Atlantic Blvd. and Firestone Blvd. at head of Neville St. Use: Municipal. Casing: 12 inches.	1514	111	650	(d)	7/21/31	-------	-------	-------	224	29	b45	-------	-------	-------	-------
B-78-K-10	City of Southgate, Well 8. Southgate; 165 feet N. of Michigan Ave., 30 feet W. of Kaufman Ave. Use: Municipal. Casing: 12 inches.	1505A	105	x764	(d)	7/21/31	-------	-------	-------	249	27	b23	-------	-------	-------	-------
B-78c-J-10	City of Southgate, Well 5. Southgate; 20 feet W. of Kaufman Ave., 75 feet S. of Southern Ave. Use: Municipal. Casing: 12 inches. Perforated 318-330; 350-362; 614-680; 732-750; 892-904.	1515A	114	*x1,000	(d)	7/21/31	-------	-------	-------	230	52	b45	-------	-------	-------	-------
B-78d-K-11	City of Southgate, Well 9. Southgate; 60 feet E. of Washington Ave., 150 feet S. of Tweedy Blvd. Use: Municipal. Casing: 12 inches.	1515B	105	813	(d)	7/21/31	-------	-------	-------	239	21	b20	-------	-------	-------	-------
B-111d-L-9	J. P. Miller Realty Co. W. of Compton; 2,000 feet W. of Central Ave., 500 feet N. of Riverside-Redondo Blvd. Use: Irrigation. Casing: 12 inches. Perforated 178-195.	840A	105	*250	162	7/23/31	59.1	-------	30	229	27	84	Tr.	71	16	47
B-116c-L-10	City of Compton, Magnolia Plant 4. Compton; 75 feet N. of Magnolia St., 500 feet E. of P. E. Ry., 100 feet W. of Tamarind St. Use: Domestic. Casing: 16 inches. Perforated 669-688.	870	68	*x714	150	7/22/31	50.5	-------	34	220	20	56	Tr.	52	13	44
B-116d-L-10	City of Compton, Magnolia Plant 1. Compton; 50 feet N. of Magnolia St., 110 feet W. of Tamarind St. Use: Municipal. Casing: 12 inches.	870A	68	x360	151	7/22/31	50.6	-------	34	217	20	50	0	52	13	44

TABLE 8. WELLS IN LOS ANGELES AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-116m-L-10	Test hole. W. of Compton; on S. line of Olive (Center St.), 50 feet E. of drain, 300 feet W. of Oleander St.	871A	66	8	741	2/15/32	157	0.38	42	479	181	185	6	120	52	168
B-117-L-10	I. W. Hellman Ranch. SW. of Compton; 100 feet E. of Wilmington Ave., 0.6 miles N. of Victoria St. Use: Domestic. Casing: 7 inches.	862	97	x	1838	2/8/33	33 9	0.06	53	92	53	0	0	25	5	40
B-117a-L-10	G. D. Hufford, Well 2. SW. of Compton; 0.25 miles N. of Victoria St., 300 feet E. of Compton Ave. (Wilmington Ave.). Use: Irrigation. Casing: 16 inches. Perforated 335-360.	862A	125	374	240	8/19/31	50.5	--------	39	[a]204	23	65	0	50	11	49
B-121f-L-10	Southern California Mausoleum Co. Compton; 100 feet N. of Main St., 25 feet E. of Temple St. Use: Irrigation and domestic. Casing: 12 inches. Perforated 100-136.	890B	70	*142	149	7/22/31	76.7	--------	28	268	46	127	Tr.	86	23	54
B-121j-L-10	City of Compton, Shinner Tract Well 5. SE. of Compton; 100 feet N. of Shinner St., 100 feet W. of Long Beach Blvd. Use: Municipal. Casing: 18 inches. Perforated 92-132.	891	62	*x199	153	7/22/31	67.5	--------	29	250	34	106	0	76	18	50
B-122i-L-10	City of Long Beach, N. Long Beach Well 2. SE. of Compton; 200 feet E. of Long Beach Blvd., 800 feet S. of Artesia St. Use: Municipal. Casing: 10 inches.	892C	57	200	84	6/19/31	54 8	--------	33	244	23	56	Tr.	60	15	48
					(i)	7/ 5/32	--------	--------	33	241	25	53	--------	61	10	[c]43
					(i)	8/ 3/32	--------	--------	34	245	26	59	--------	62	10	[c]47
					(i)	9/13/32	--------	--------	34	248	23	56	--------	61	10	[c]46
					(i)	10/ 1/32	--------	--------	37	244	25	69	--------	62	9	[c]53
					(i)	11/ 1/32	--------	--------	34	258	25	27	--------	62	10	[c]47
B-123a-M-10	George Mindrup. S. of Compton; 1,400 feet N. of Delano St., 1,100 feet E. of Alameda St., 1,100 feet W. of P. E. Ry. On W. bank of Compton Creek. Use: Irrigation and domestic. Casing: 12 inches.	884	40	161	154	7/22/31	56.9	--------	36	223	27	72	0	65	9	52
C-803r-I-12	Montebello Land and Water Co., Well 7. Montebello; 50 feet W. from edge of bluff of Rio Hondo, 30 feet S. of Washington Ave., extended, 650 feet E. of Poplar St. Use: Irrigation and domestic. Casing: 20 inches. Perforated 72-110. Well originally 900 feet deep and sealed up to 126 foot depth.	2908	211	*x126	1028	6/ 1/32	50 0	0.16	45	204	39	23	6	39	12	54
C-803u-I-12	La Merced Heights Land and Water Co., Well 2. Montebello; 700 feet E. of Lincoln Ave. on a line with La Merced Ave., projected, 150 feet N. of C-803v-I-12. Use: Not used. Casing: 12 inches. U. S. D. A. analysis on 3/26/32 is duplicate of D. W. R. Lab. No. 868.	2917A	186	x125	868	3/26/32	189	0.76	45	274	481	35	0	149	37	200
					(g)	3/26/32	194	--------	45	286	467	29	1	150	32	[c]192
C-803v-I-12	La Merced Land and Water Co., Old Well 1. Montebello; 700 feet E. of Lincoln Ave. on a line with La Merced Ave., projected, 150 feet S. of C-803u-I-12. Use: Municipal. Casing: 16 inches.	2917B	186	x460	979	5/13/32	220	0.95	48	281	564	35	0	159	36	233
					1017	6/ 1/32	218	0.91	--------	284	559	--------	--------	--------	--------	--------
					1147	7/ 5/32	215	0.87	--------	284	532	--------	--------	--------	--------	--------
					1274	8/ 9/32	209	0 89	46	287	520	33	0	157	41	221
					1366	9/ 9/32	203	0.91	--------	281	493	--------	--------	--------	--------	--------
					1471	10/ 5/32	214	0.93	--------	274	525	--------	--------	--------	--------	--------
					1536	11/ 2/32	196	0.85	46	271	467	21	0	148	34	201
					1573	12/ 6/32	177	0.87	--------	274	423	--------	--------	--------	--------	--------
					1670	1/ 4/33	146	0.72	52	268	346	29	0	98	23	167
C-806d-I-12	John J. Germaine. Montebello; 800 feet W. of Lincoln Ave., 200 feet S. of La Merced Ave., extended. Use: Domestic, public supply. Perforated at about 65 foot depth. Well drilled for oil and converted to water well.	2917D	185	1,300	(e)	3/30/32	--------	--------	--------	242	98	--------	--------	--------	--------	--------
					1018	6/ 1/32	77.9	0.41	81	281	106	34	0	22	5	144
C-806h-I-12	John J. Germaine. E. of Montebello; 0.2 miles E. of turn in Lincoln Ave., 800 feet S. of La Merced Ave., extended. Use: Domestic. Casing: 8 inches.	2917F	185	50	1029	6/ 1/32	71.9	0.29	61	241	67	58	6	41	10	104
C-807b-I-12	South Montebello Irrigation District, Well 1. Montebello; 0.13 miles S. of Roosevelt Ave., 150 feet E. of First St. (Bluff Ave.), 450 feet N. of Mines Ave. In S. end of pump house in Rio Hondo River bottom. Use: Domestic and irrigation. Casing: 16 inches. Perforated 30-70; 95-103; 112-129; 140-150; 153-157.	2899A	170	*200	(e)	4/ 1/32	--------	--------	--------	193	32	--------	--------	--------	--------	--------
C-808b-I-12	Mr. Burkhardt. Montebello; 120 feet E. of Greenwood Ave., 80 feet S. of Beach St. Use: Domestic. Casing: 5 inches.	1580D	195	x172	(e)	4/21/32	--------	--------	--------	205	89	--------	--------	--------	--------	--------
					1661	12/27/32	75.4	0.13	16	201	124	16	1	93	19	28
C-809c-I-12	California Water Service Co., Belvedere Well 19. Montebello; 55 feet W. of Vail Ave., 50 feet N. of Ferguson Drive. Use: Domestic and irrigation. Casing: 12 inches.	2879B	191	x	(d)	7/13/31	--------	--------	--------	236	33	[b]21	--------	--------	--------	--------

TABLE 8. WELLS IN LOS ANGELES AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-834f-J-11	George Peterson. SE. of Bell; 0.14 miles N. of Clara St. (Hunt's Crossing Road), 210 feet W. of Perry Road. Use: Irrigation. Casing: 12 inches. Perforated 211-233; 357-381.	1543H	121	*402	141	7/15/31	47.6	.....	30	250	18	18	4	55	13	38
C-834m-J-11	Tweed-Beck. SE. of Bell; 600 feet N. of Hunt's Crossing Road (Clara St.), 800 feet E. of Los Angeles River. Use: Domestic. Casing: 8 inches. Perforated 207-221.	1533D	120	*229	142	7/15/31	224.9	.....	27	290	341	515	2	237	78	154
C-866d-J-11	Rio Grande Oil Co., Well 1. SE. of Bell; 175 feet S. of S. P. R. R., 450 feet E. of E. bank of Los Angeles River, 1,800 feet W. of Harper St. (Perry Road). Use: Industrial and domestic. Casing: 12 inches. Perforated 482-499.	1534A	109	*575	132	7/15/31	48.3	.....	37	229	25	30	7	48	12	45
C-902a-I-11	California Water Service Co., Belvedere Well 8, Unit 9. W. of Montebello; 60 feet W. of Brannick Ave., 40 feet S. of Anaheim-Telegraph Road, 100 feet N. of Mines Ave. (9th St.). Use: Municipal. Casing: 12 inches. Perforated 163-178; 190-247.	2828A	191	*x250	(d)	7/13/31	.....	.....	.....	185	77	b47	.....	.....	.....	.....
					391	10/ 3/31	67.6	0.07	29	223	57	57	14	64	23	46
C-904a-I-11	Goodrich Tire and Rubber Co., Well 1. W. of Montebello; 500 feet S. of 9th St., 700 feet W. of Gerhard Ave., S. of reservoir and power plant. Use: Industrial. Casing: 16 inches. Gravel 253-266; 272-279; 466-490; 648-657; 708-750. Casing sealed back to 368 foot depth.	2858B	165	*788	393	10/ 3/31	40.9	0.07	41	192	23	20	4	33	12	42
C-1310-I-10	West Coast Kalsomine Co. N. of Vernon; 350 feet N. of 26th St., 2,000 feet W. of Downey Road. Use: Industrial. Casing: 12 inches. Perforated 148-155; 178-179; 218-233; 269-277; 301-305; 321-332; 336-352.	2788A	201	*401	392	10/ 3/31	89.4	0.16	25	250	59	128	13	96	29	24

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[e] Analysis by Los Angeles County Flood Control District, Los Angeles.
[f] Analysis by Los Angeles Testing Laboratory, Los Angeles.
[g] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[h] Analysis by City of Los Angeles, Department of Water and Power Laboratory; Carl Wilson, Director.
[i] Analysis by City of Long Beach Engineering Laboratory.

TABLE 9. SURFACE WATERS IN LOS ANGELES AREA

Number	Location and description	Location Number	Elevation of ground	Discharge in second feet	Laboratory number	Date	Time of day	Specific electrical conductance (K x 10^4 at 25° C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S871-L-10	Compton Creek. W. of Compton. Sampled at S. side of Olive St., 300 feet W. of Oleander St.	S871	65	.....	742	2/15/32	.....	27.9	0.06	.....	98	23	.....	.....	.....	.....	.....
S883-L-10	Compton Creek pond. S. of Compton. Sampled at bridge across pond, 600 feet E. of Alameda St. at Dominguez junction. Pond is filled with water the year around.	S883	46	.....	159	7/22/31	.....	174.6	.....	52	162	344	222	Tr.	96	41	200
S883A-L-10	Compton Creek. S. of Compton. Sampled at Alameda St. crossing. Discharge from L. A. C. F. C. D.	S883A	50	40	(c)	1/25/33	3.30 p.m.	.....	.....	.....	50	21	28	Tr.	22	0	.....
S895-M-10	Los Angeles River. SE. of Compton. Sampled at Del Amo St. crossing. Discharge from L. A. C. F. C. D.	S895	40	150	(c)	1/25/33	3.00 p.m.	.....	.....	.....	177	64	153	0	67	3	.....
S911-L-10	Los Angeles River. E. of Compton. Sampled at Atlantic Blvd. (Olive St.) crossing. Discharge estimated by L. A. C. F. C. D. at time of sampling.	S911	56	0.3	874	4/11/32	.....	102	0.42	49	[a]332	105	127	0	75	22	124
S1524-J-11	Los Angeles River. E. of Southgate. Sampled at Compton-Jaboneria Road crossing W. of Rio Grande Oil Co. refinery. U. S. D. A. analysis is duplicate of D. W. R. Lab. No. 862.	S1524	105	.....	862	3/24/32	.....	54.3	0.19	56	214	41	44	1	34	11	76
					(d)	3/24/32	.....	55.4	.....	53	223	43	42	2	35	12	[b]71
S1525-K-11	Los Angeles River. W. of Downey. Sampled at L. A. C. F. C. D. gaging station 34 at Stewart and Gray Road crossing. Discharge from L. A. C. F. C. D.	S1525	95	1.4	869	4/11/32	.....	69.8	0.65	60	183	6	163	0	36	13	98
				2,000	(e)	1/19/33	10.00 a.m.	.....	.....	.....	78	18	48	Tr.	31	2	.....
				150	(e)	1/24/33	10.00 a.m.	.....	.....	.....	166	57	163	2	55	2	.....
				1,100	(e)	1/29/33	7.30 p.m.	.....	.....	.....	61	11	33	Tr.	24	1	.....
S1535-K-11	Rio Hondo. W. of Downey. Sampled at L. A. C. F. C. D. gaging station 45 at Stewart and Gray Road crossing. Discharge from L. A. C. F. C. D.	S1535	95	400	(e)	1/19/33	10.20 a.m.	.....	.....	.....	55	14	11	0	15	1	.....
				600	(e)	1/29/33	8.05 p.m.	.....	.....	.....	56	14	13	Tr.	17	1	.....
S2627-I-7	Mr. Casserini, spring. E. of Culver City. On W. bank of Ballona Creek, 700 feet NE. of Higuera St. Use: Irrigation.	S2627	50	.....	894	3/25/32	.....	1403	4.94	52	778	4,083	1,880	0	754	515	1,982
S2771-G-10	Los Angeles River, NE. of Los Angeles. Sampled at L. A. C. F. C. D. gaging station 57 at Dayton Ave. bridge. Discharge from L. A. C. F. C. D.	S2771	300	700	(e)	1/16/33	7.45 p.m.	.....	.....	.....	68	14	4	0	32	0	.....
				4,000	(e)	1/19/33	5.45 p.m.	.....	.....	.....	56	83	33	Tr.	34	1	.....
				400	(e)	1/29/33	6.05 p.m.	.....	.....	.....	78	12	74	Tr.	36	1	.....
S2771A-G-10	Arroyo Seco. NE. of Los Angeles. Sampled at L. A. C. F. C. D. gaging station 58 at Avenue 26. Stream joins Los Angeles River 1,800 feet below station. Discharge from L. A. C. F. C. D.	S2771A	310	200	(e)	1/19/33	5.10 p.m.	.....	.....	.....	39	11	18	0	19	0	.....
				70	(e)	1/29/33	6.30 p.m.	.....	.....	.....	54	11	31	Tr.	20	0	.....
S2774-H-10	Los Angeles River. Los Angeles. Sampled under Aliso St. bridge.	S2774	250	.....	1708	1/20/33	.....	51.9	0.13	28	131	34	96	7	57	15	37
S2777-I-10	Los Angeles River. Los Angeles. Sampled at S. side of 9th St. bridge.	S2777	210	.....	(f)	12/17/32	.....	.....	.....	54	324	226	247	.....	99	35	[b]207

[a] Includes small equivalent of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Analysis by Los Angeles County Health Department Laboratory and obtained from Los Angeles County Flood Control District.
[d] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[e] Analysis by City of Long Beach, Engineering Laboratory.

TABLE 10. SURFACE WATERS IN LOWER SANTA ANA RIVER AREA

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S1835-K-17	Rodeo Canyon Creek. NE. of Brea; E. of Brea Canyon Road, at Los Angeles County Line.	S1835	495	----------	799	3/10/32	224	0.50	46	631	195	508	0	142	93	284
S1897-K-18	Soquel Canyon Creek. E. of Olinda; just above junction with Carbon Canyon Creek.	S1897	675	----------	801	3/10/32	979	7.23	90	[a]2,930	1,411	1,156	0	22	133	2,842
S1897A-K-18	Carbon Canyon Creek. NE. of Olinda; 0.5 miles below La Vida Spring, above junction of Soquel Creek.	S1897A	675	----------	800	3/10/32	539	2.75	89	[a]2,237	620	455	13	10	73	1,268
S1925-J-18	Hiltscher Mineral Springs. SW. of Sleepy Hollow; 0.1 miles NE. of San Bernardino County line, 100 feet S. of Carbon Canyon Creek Road, on N. bank of creek. Use: Domestic and baths.	S1925	850	----------	797	3/10/32	583	1.38	55	1,156	646	1,738	3	95	348	932
S568-P-13	Tile drainage outlet. NW. of Huntington Beach. Sampled at O. C. F. C. D. drainage gaging station 16 at SE. corner of Graham St. and Wintersburg Ave.	S568	4	----------	([b])	6/ 1/32	--------	--------	--------	--------	35	--------	--------	--------	--------	--------
S577-P-14	La Bolsa Drainage District, tile drainage manhole. W. of Wintersburg; 200 feet E. of Springdale St. on N. line of Heil Ave. extended. N. branch of tile drains.	S577	9	----------	715	2/15/32	219	0.36	19	192	62	1,077	13	321	82	125
S577A-P-14	La Bolsa Drainage District, tile drainage manhole. W. of Wintersburg; 200 feet E. of Springdale St. on N. line of Heil Ave. extended. E. branch of tile drains.	S577A	9	----------	716	2/15/32	113	0.19	--------	162	30	--------	--------	--------	--------	--------
S585-O-14	Westminster Drainage District, tile drainage outlet. SW. of Westminster; at NE. corner of Edwards St. and Bolsa Ave.	S585	24	----------	711	2/15/32	332	0.78	--------	860	385	--------	--------	--------	--------	--------
S589-P-14	La Bolsa Drainage District, tile drainage manhole. SW. of Westminster; 0.12 miles E. of Edwards St., 15 feet S. of Slater Ave.	S589	5	----------	701	2/ 5/32	126	0.32	--------	235	91	--------	--------	--------	--------	--------
S589D-P-14	Tile drainage manhole. NW. of Huntington Beach. Sampled at first manhole E. of O. C. F. C. D. drainage gaging station 15 (S589B-P-14), 0.5 miles S. of Slater Ave.	S589D	3	----------	([b])	6/ 7/32	--------	--------	--------	--------	246	--------	--------	--------	--------	--------
S589E-P-14	Tile drainage manhole. NW. of Huntington Beach. Sampled at second manhole E. of O. C. F. C. D. drainage gaging station 15 (S589B-P-14), 0.5 miles S. of Slater Ave.	S589E	4	----------	([b])	6/ 7/32	--------	--------	--------	--------	212	--------	--------	--------	--------	--------
S595-O-14	Tile drainage outlet. SW. of Westminster; 0.75 miles S. of Westminster Ave., 15 feet E. of Golden West St.	S595	30	----------	642 712	1/19/32 2/15/32	182 134	0.65 0.42	85 --------	802 454	105 110	201 --------	13 --------	38 --------	21 --------	439 --------
S599-P-14	La Bolsa Drainage District, tile drainage manhole. SW. of Wintersburg; at NW. corner of Slater Ave. and Golden West St.	S599	6	----------	697	2/ 5/32	107	0.22	--------	134	23	--------	--------	--------	--------	--------
S14414-O-14	Westminster Drainage District, tile drainage outlet. Westminster; on E. side of Huntington Beach Blvd., 600 feet S. of Westmioster Ave.	S14414	42	----------	713	2/15/32	189	0.55	--------	558	178	--------	--------	--------	--------	--------
S14417-P-14	La Bolsa Drainage District, tile drainage manhole. N. of Wintersburg; at SE. corner of Huntington Beach Blvd. and Heil Ave.	S14417	24	----------	699	2/ 5/32	60.9	0.18	--------	253	45	--------	--------	--------	--------	--------
S14464-O-15	Newhope Drainage District, tile drainage outlet. S. of Garden Grove; 0.25 miles E. of Verano St., 10 feet S. of Hazard St.	S14464	72	----------	670	1/28/32	108	0.24	--------	387	73	--------	--------	--------	--------	--------
S14464A-O-15	Newhope Drainage District, tile drainage manhole 43. W. of Santa Ana; 1,100 feet W. of Newhope St. on N. line of 17th St. (Westminster Ave.).	S14464A	80	----------	([b]) ([b]) ([b])	11/29/30 2/24/31 4/ 4/31	--------	--------	--------	423 409 [a]420	171 110 118	--------	--------	--------	--------	--------
S14465-O-15	Newhope Drainage District, tile drainage manhole 32. S. of Garden Grove; 250 feet E. of Verano St., 15 feet S. of W. 5th St.	S14465	70	----------	671	1/28/32	104	0.34	--------	357	73	--------	--------	--------	--------	--------
S14467-P-15	Newhope Drainage District, tile drainage manhole 26. S. of Garden Grove. Sampled at O. C. F. C. D. drainage gaging station 19, 0.25 miles E. of Verano St., 20 feet S. of Smeltzer Ave.	S14467	54	----------	([b]) ([b]) 638 674	11/20/30 4/ 4/31 1/18/32 1/28/32	--------	--------	--------	[a]388 346 375 345	109 80 101 87	--------	--------	--------	--------	--------
S14469-P-15	Newhope Drainage District, tile drainage manhole. SE. of Garden Grove; 0.25 miles E. of Verano St., on S. line of Talbert Ave.	S14469	35	----------	([b])	10/19/31	--------	--------	--------	[a]339	96	--------	--------	--------	--------	--------

TABLE 10. SURFACE WATERS IN LOWER SANTA ANA RIVER AREA—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S14473-O-15	Newport Drainage District, tile drainage manuole 73. SE. of Garden Grove; 0.25 miles E. of Newhope St. on S. line of Trask Ave.	S14473	90	----------	(b)	11/28/30	----------	----------	----------	[a]367	137	----------	----------	----------	----------	----------
S14474-O-15	Newhope Drainage District, tile drainage manhole 59. S. of Garden Grove; 0.25 miles W. of Buaro St., 320 feet N. of Hazard Ave.	S14474	78	----------	669	1/28/32	158	0.34	----------	399	138	----------	----------	----------	----------	----------
S14478-P-15	Newhope Drainage District, tile drainage manhole. S. of Garden Grove; 50 feet N. of Wintersburg St., 20 feet E. of Newhope St.	S14478	43	----------	675	1/28/32	168	0.34	40	470	174	265	2	144	51	175
S14478A-P-15	Newhope Drainage District, tile drainage manhole. W. of Wintersburg. Sampled at manhole 500 feet S. of Wintersburg Ave., 600 feet W. of Newhope St.	S14478A	43	----------	(b)	6/ 7/32	----------	----------	----------	----------	100	----------	----------	----------	----------	----------
S14478B-P-15	Newhope Drainage District, tile drainage manhole. W. of Wintersburg. Sampled at manhole 700 feet S. of Wintersburg Ave., 200 feet W. of Newhope St.	S14478B	43	----------	(b)	6/ 7/32	----------	----------	----------	----------	139	----------	----------	----------	----------	----------
S14485-O-15	Newhope Drainage District, tile drainage manhole 81. S. of Garden Grove, 150 feet S. of W. 5th St., 20 feet W. of Buaro St.	S14485	70	----------	673	1/28/32	144	0.32	----------	451	117	----------	----------	----------	----------	----------
S14487-P-15	Newhope Drainage District, manhole 10. S. of Garden Grove; 0.25 miles S. of Sneltzer Ave., 20 feet W. of Buaro St.	S14487	60	----------	672	1/28/32	143	0.27	----------	378	148	----------	----------	----------	----------	----------
S13233-Q-15	Talbert Drainage District, tile drainage outlet. E. of Huntington Beach; 15 feet E. of Bushard St., 0.4 miles S. of Adams Ave.	S13233	9	----------	(b)	3/27/31	----------	----------	----------	[a]676	2,275	----------	----------	----------	----------	----------
					276	9/ 3/31	267.1	0.69	60	1,116	183	400	9	144	71	442
					640	1/18/32	324	0.62	51	1,174	316	537	27	244	98	481
					696	2/ 5/32	311	0.51	----------	1,095	304	----------	----------	----------	----------	----------
					(b)	6/ 1/32	----------	----------	----------	----------	178	----------	----------	----------	----------	----------
S13252-Q-15	Talbert Drainage District, tile drainage outlet. E. of Huntington Beach; 0.5 miles S. of Garfield St. on E. line of Ward St., extended. Outlet of E. branch.	S13252	19	----------	695	2/ 5/32	497	0.65	----------	631	506	----------	----------	----------	----------	----------
S13260-P-15	Newhope Drainage District, tile drainage outlet. NE. of Huntington Beach; 0.15 miles S. of Talbert Ave., 0.25 miles E. of Verano St.	S13260	32	----------	(b)	11/28/30	----------	----------	----------	[a]384	112	----------	----------	----------	----------	----------
					(b)	2/24/31	----------	----------	----------	[a]394	118	----------	----------	----------	----------	----------
					(b)	4/ 4/31	----------	----------	----------	374	107	----------	----------	----------	----------	----------
					(b)	4/ 9/31	----------	----------	----------	[a]326	110	----------	----------	----------	----------	----------
					639	1/18/32	131	0.31	43	387	108	198	27	106	39	147
S557-P-13	Open drainage ditch. NW. of Huntington Beach. Sampled at O. C. F. C. D. gaging station 17 on W. line of Bolsa Chica St., 1700 feet S. of Sneltzer Ave.	S557	13	----------	(b)	6/ 1/31	----------	----------	----------	----------	100	----------	----------	----------	----------	----------
S589A-P-14	Open drainage ditch. NW. of Huntington Beach. Sampled on E. side of Edwards St., 0.55 miles S. of Slater Ave. and 50 feet S. of point where this ditch joins drainage ditch from E. and passes under road to join main ditch on W. side.	S589A	2	----------	55	6/11/31	380.2	----------	----------	375	1,383	----------	----------	----------	----------	----------
S589B-P-14	Open drainage ditch. NW. of Huntington Beach. Sampled at O. C. F. C. D. drainage gaging station 15, 200 feet E. of Edwards St., 0.5 miles S. of Slater Ave. Water flows west.	S589B	2	----------	(b)	12/ 3/30	----------	----------	----------	294	622	----------	----------	----------	----------	----------
					54	6/11/31	----------	----------	----------	235	146	----------	----------	----------	----------	----------
					(b)	6/ 1/32	----------	----------	----------	----------	306	----------	----------	----------	----------	----------
S589C-P-14	Bolsa Drainage District, open drainage ditch. NW. of Huntington Beach. Sampled at O. C. F. C. D. drainage gaging station 9, 1,300 feet S. of Slater Ave., 600 feet E. of Edwards St.	S589C	3	----------	(b)	6/ 1/32	----------	----------	----------	----------	27	----------	----------	----------	----------	----------
S599A-P-14	Open drainage ditch. NW. of Huntington Beach. Sampled at bridge on Slater Ave., 500 feet W. of Golden West St.	S599A	4	----------	56	6/11/31	53.3	----------	----------	217	41	----------	----------	----------	----------	----------
S599B-P-14	American States Water Service Co., Spring at head of drainage ditch. NW. of Huntington Beach; 300 feet E. of Golden West St., 750 feet S. of Slater Ave.	S599B	4	----------	(b)	12/ 3/30	----------	----------	----------	[a]217	35	----------	----------	----------	----------	----------
					57	6/11/31	44.5	----------	----------	210	20	----------	----------	----------	----------	----------
S13215-Q-14	Slough. SE. of Huntington Beach; 100 feet NE. of State (Coast) Highway, 1.3 miles NW. of Bushard St., due NE. of Well C-1274-Q-14. Sampled from running water in slough.	S13215	1	----------	53	6/11/31	5,626.4	----------	----------	[a]244	23,167	----------	----------	----------	----------	----------
S13222-Q-15	Talbert Drainage District, open drainage ditch. E. of Huntington Beach. Sampled at O. C. F. C. D. drainage gaging station 13 at NE. corner of Adams Ave. and Cannery St.	S13222	8	----------	(b)	3/27/31	----------	----------	----------	268	218	----------	----------	----------	----------	----------
					(b)	6/ 1/32	----------	----------	----------	----------	64	----------	----------	----------	----------	----------
S13222A-Q-14	Talbert Drainage District, open drainage ditch. E. of Huntington Beach. Sampled at O. C. F. C. D. drainage gaging station 14 at NE. corner of Adams Ave. and Newland St.	S13222A	9	----------	(b)	3/27/31	----------	----------	----------	361	570	----------	----------	----------	----------	----------

TABLE 10. SURFACE WATERS IN LOWER SANTA ANA RIVER AREA—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S13224-Q-14	Open drainage ditch. SE. of Huntington Beach. Sampled at NE. corner of Atlanta Ave. and Newland St. (Pennsylvania Ave.), extended. Water flows south.	S13224	4	----------	50	6/11/31	703.3	----------	----------	488	1,557	----------	----------	----------	----------	----------
S13224A-Q-15	Open drainage ditch. SE. of Huntington Beach. Sampled at NE. corner of Cannery St. and Atlanta Ave.	S13224A	5	----------	51	6/11/31	152.1	----------	----------	317	89	----------	----------	----------	----------	----------
S13225-Q-14	Open drainage ditch. SE. of Huntington Beach. Sampled 0.7 miles S. of Atlanta Ave. on line of Cannery St., extended.	S13225	4	----------	49	6/11/31	970.1	----------	----------	275	2,801	----------	----------	----------	----------	----------
S13225A-Q-14	Slough. SE. of Huntington Beach. Sampled from small slough 50 feet W. of its junction with Talbert drainage ditch, 1.0 miles NW. of Bushard St., 1,000 feet NE. of State (Coast) Highway.	S13225A	2	----------	52	6/11/31	7,033.0	----------	----------	[a]238	23,858	----------	----------	----------	----------	----------
S13235-R-15	Open drainage ditch. SE. of Huntington Beach. Sampled 1 mile S. of Atlanta Ave., on E. side of Bushard St.	S13235	0	----------	48	6/11/31	272	----------	----------	570	376	----------	----------	----------	----------	----------
S13242-Q-15	Talbert Drainage District, open drainage ditch. E. of Huntington Beach. Sampled at O. C. F. C. D. drainage station 11, at SE. corner of Adams Ave. and Wright St.	S13242	8	----------	([b])	3/27/31	----------	----------	----------	[a]510	264	----------	----------	----------	----------	----------
					([b])	6/ 1/32	----------	----------	----------	----------	153	----------	----------	----------	----------	----------
S13246-R-15	Talbert Drainage District, drainage pumping plant. SE. of Huntington Beach, 1,000 feet SE. of Bushard St., 500 feet NE. of State (Coast) Highway, at end of main drainage ditch.	S13246	3	----------	([b])	3/20/31	----------	----------	----------	262	10,474	----------	----------	----------	----------	----------
					([b])	3/27/31	----------	----------	----------	336	5,898	----------	----------	----------	----------	----------
					243	8/20/31	4,471	----------	79	[a]262	16,951	2,387	0	440	1,039	9,481
S13260B-P-15	Open drainage ditch. NE. of Huntington Beach. Sampled at SE. corner of Ellis Ave. and Verona St.	S13260B	26	----------	244	8/20/31	536.5	----------	61	564	772	1,457	0	243	155	914

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Analysis by Orange County Flood Control District, Santa Ana, California.

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10^6 at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-900i-M-13	Steve Luther. W. of Cypress; 200 feet S. of Lincoln Ave., 740 feet W. of Moody St. Use: Irrigation and domestic. Casing: 6 inches. Perforated 184-206.	1056C	38	206	5	5/23/31	45.5	.....	35	226	18	36	Tr.	42	13	40
C-900j-M-13	Steve Luther. SW. of Cypress; 75 feet W. of Miller Place, 640 feet N. of Orange Ave. Use: Irrigation. Casing: 6 inches.	1057	40	84	4	5/22/31	45.0		34	229	14	29	2	39	15	38
C-909h-N-13	Los Alamitos Sugar Co., Well 12. Los Alamitos; 0.16 miles E. of Los Alamitos Blvd., 25 feet S. of Cerritos Ave. Use: Irrigation.	1029C	26	(x)	(d)	4/10/31	.....	.....	.....	[a]218	27	.....	.....	.....	.....	.....
					(d)	6/22/31	.....	.....	.....	[a]223	18	.....	.....	.....	.....	.....
C-909i-N-13	R. Longwell. Los Alamitos; 20 feet S. of Cerritos Ave., 60 feet W. of Los Alamitos Blvd. Use: Domestic. Casing: 2 inches.	1029D	25	x355	(d)	4/10/31	.....	.....	.....	[a]250	20	.....	.....	.....	.....	.....
					(d)	6/19/31	.....	.....	.....	[a]245	16	.....	.....	.....	.....	.....
					(d)	7/28/31	.....		.....	[a]232	16	.....	.....	.....	.....	.....
C-909m-N-13	Test hole. N. of Los Alamitos; at SW. corner of Ball Road and Bloomfield Ave. Casing: None.	1038A	29	5	770	3/2/32	1,453	1.28	86	1,552	1,722	5,190	0	190	186	3,555
C-910j-O-12	Hellman Ranch Co. (leased by R. Abbey). Seal Beach; 310 feet N. of and 1,100 feet E. of turn to west in Westminster Road at point 0.65 miles NE. of P. E. Ry. Use: Irrigation and domestic. Casing: 12 inches.	515A	16	(x)	(d)	11/10/30	.....	.....	.....	[a]168	21	.....	.....	.....	.....	.....
					(d)	1/26/31	.....	.....	.....	[a]186	18	.....	.....	.....	.....	.....
					(d)	3/2/31	.....	.....	.....	[a]170	17	.....	.....	.....	.....	.....
					(d)	3/21/31	.....	.....	.....	[a]175	29	.....	.....	.....	.....	.....
					(d)	6/18/31	.....	.....	.....	[a]177	21	.....	.....	.....	.....	.....
					(d)	7/28/31	.....	.....	.....	[a]196	23	.....	.....	.....	.....	.....
C-910r-O-12	Associated Oil Co., Bryant Water Well. NE. of Seal Beach; 100 feet E. of flood control channel on San Gabriel River, 1.25 miles S. of Anaheim St. (Ocean Ave.), on Associated Oil Co. Bryant lease. Use: Industrial. Casing: 12 inches. Gravel 70-92; 187-214.	504A	4	*740	(e)	10/17/29		.....	.....	175	14	.....	.....	.....	.....	.....
					(e)	11/26/30	.....		.....	175	13	.....	.....	.....	.....	.....
					(e)	6/23/31	.....		.....	172	16	.....	.....	.....	.....	.....
					(e)	11/12/31	.....	.....	.....	169	14	.....	.....	.....	.....	.....
					850	3/24/32	36.5	0.12	76	177	16	20	0	14	3	69
					973	5/12/32	35.0	0.14	79	189	11	9	0	11	3	69
					1022	6/1/32	34.3	0.14	.....	186	12	.....	.....	.....	.....	.....
					1132	7/5/32	37.8	0.09	.....	[a]174	13	.....	.....	.....	.....	.....
					1256	8/8/32	39.1	0.08	76	177	16	23	1	15	2	69
					1356	9/7/32	37.8	0.14	.....	[a]174	14	.....	.....	.....	.....	.....
					1456	10/4/32	37.5	0.10	.....	171	16	.....	.....	.....	.....	.....
					1521	11/2/32	37.5	0.10	73	171	16	20	1	15	4	67
					1564	12/6/32	35.9	0.08	.....	171	14	.....	.....	.....	.....	.....
					1650	1/4/33	38.2	0.10	74	174	16	31	0	15	4	67
					1735	2/3/33	36.1	0.14	.....	174	14	.....	.....	.....	.....	.....
C-910w-O-13	Sunset Gun Club. E. of Seal Beach; 0.95 miles W. of Bolsa Chica St., 0.52 miles N. of Smeltzer Ave., at club house. Use: Domestic. Artesian well. Casing: 2 inches.	546B	6	200	763	3/3/32	45.3	0.09	25	226	16	37	0	53	14	29
C-910x-O-12	Test hole. NE. of Seal Beach; at SW. corner of intersection of Ocean Ave. and Los Alamitos Blvd. Casing: None.	522D	11	18	776	3/7/32	541	0.61	91	[a]1,357	391	1,380	0	41	40	1,259
C-910y-O-13	Test hole. E. of Seal Beach; 1.0 miles W. of Bolsa Chica St., 0.5 miles N. of Smeltzer Ave., 300 feet W. of C-910w-O-13. Casing: None.	546C	6	7	777	3/3/32	121	0.51	59	723	62	13	0	64	31	190
C-911a-O-13	N. R. Yorba. NE. of Seal Beach; 220 feet S. of Ocean Ave., 360 feet W. of Los Alamitos Blvd., 4,000 feet W. of Hellman Ave., 30 feet N. of C-911-O-13. Use: Domestic.	522A	12	x247	(e)	6/23/31	.....	.....	.....	203	14	.....	.....	.....	.....	.....
					(e)	11/12/31	.....		.....	190	16	.....	.....	.....	.....	.....
					518	11/12/31	41.7	.....	.....	204	13	.....	.....	.....	.....	.....
					1,736	1/28/33	40.7	0.14	.....	195	13	.....	.....	.....	.....	.....
C-911b-N-13	F. B. Bixby. NE. of Seal Beach; 5 feet S. of Bixby Ave., 10 feet W. of Los Alamitos Blvd. (Norwalk Blvd.). Use: Irrigation and domestic. Casing: 12 inches.	521	14	x903	32	6/6/31	37.9		83	[a]164	14	36	0	10	2	77
C-911g-O-12	Bryant Ranch. N. of Seal Beach; 300 feet E. of San Gabriel River channel, 0.3 miles S. of Ocean Ave. Use: Domestic and stock. Casing: 5 inches.	502	7	.....	(e)	11/12/31	.....			188	20					
C-912c-O-13	Hellman Ranch. S. of Los Alamitos; 30 feet S. of Ocean Ave., 25 feet W. of Bolsa Chica St. Use: Irrigation.	552	20	(x)	31	6/6/31	45.4	.....	36	214	18	39	Tr.	47	11	43
C-912e-O-13	Hellman Ranch. NE. of Seal Beach; on S. line of Westminster Blvd., 0.51 miles W. of Bolsa Chica St. Use: Irrigation. Casing: 10 inches.	544	14	x915	33	6/6/31	35.7		74	[a]155	14	35	0	14	4	69
C-912n-N-13	Hellman Ranch. SW. of Los Alamitos; 0.25 miles E. of Moody St., 50 feet S. of Bryant Ave. Use: Abandoned. Casing: 4 inches.	550	29	(x)	(d)	4/13/31			.....	116	89	.....	.....	.....	.....	.....
					(d)	6/19/31	.....	.....	.....	[a]140	16	.....	.....	.....	.....	.....
					(d)	7/28/31	.....	.....	.....	[a]130	18					
C-912p-N-13	Bryant Ranch. SE. of Los Alamitos; 15 feet S. of Bryant Ave., 180 feet W. of Moody St. Use: Domestic and irrigation.	550A			(d)	4/10/31			.....	[a]226	14	.....	.....	.....	.....	.....

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-927a-N-14	Artesia Land Co. W. of Stanton; 500 feet S. of Katella Ave., 35 feet W. of Hansen Road. Use: Irrigation.	1089A	54	x1,100	(d) (d)	4/10/31 6/20/31	------- -------	------- -------	----- .	[a]221 [a]243	21 20	- - ---	----- --- --	- - --- -- --- -	-------- -------	------ ----
C-927b-N-14	Chas. W. Eckert. W. of Stanton; 50 feet W. of Hansen Road, 200 feet N. of Cerritos Ave. (Spring St.). Use: Irrigation and domestic. Casing: 7 inches.	1089	56	x198	22	6/ 5/31	48 1	- ----	34	223	20	40	Tr.	56	12	45
C-927c-N-14	Bixby Ranch. SW. of Stanton; 20 feet W. of Hansen Road, 20 feet S. of Bixby Ave. Use: Irrigation and domestic. Casing: 12 inches.	581B	45	x500	36	6/ 5/31	53 0	-------	34	229	28	51	1	62	13	50
C-927v-N 14	Test hole. W. of Stanton; at SE. corner of Cerritos Ave. and Miller Road. Casing: None.	1079A	43	7	775	3/ 7/32	1,500	1 77	70	1,113	2,308	5,438	0	444	455	3,180
C-948j-L-14	Homewood Mutual Water Co. Buena Park; 50 feet S. of 4th St., 65 feet W. of Stanton Ave. Use: Domestic and irrigation. Casing: 12 inches. Perforated 59-77; 153-159; 219-228; 378-398.	1102C	77	*x400	(f)	4/22/31	--------	--------	------	232	58	[b]105	--------	--------	--------	------
C-948q-L-14	Orange County Water District No. 2, Well 1. Buena Park; 90 feet S. of 4th St., 65 feet W. of Stanton Ave. Use: Municipal. Casing: 10 inches. Perforated 76-80; 124-134; 168-180.	1102B	77	*x286	(f)	4/22/31	--------	--------	--------	226	35	[b]34	--------	-- -----	--------	--------
C-948s-M-14	Test hole. S. of Buena Park; on S. line of Orangethorpe Ave., 90 feet W. of Western Ave. Casing: None.	1094E	--------	10	774	3/ 7/32	95 1	0.30	43	345	48	122	44	59	38	105
C-950L-M-14	C. H. Hamilton. NE. of Cypress; 320 feet E. of Miller Road, 1,200 feet N. of Crescent Ave. Use: Irrigation. Casing: 12 inches. Perforated 549-563; 637-656; 687-696; 705-727; 732-746.	1075A	57	*750	8	5/22/31	51 1	-------	33	232	21	53	Tr.	46	16	42
C-950m-M-14	Mr. Notre (formerly F. A. Harrington). NE. of Cypress; 800 feet N. of La Palma Ave., 0.6 miles W. of Hansen Road. Use: Irrigation. Casing: 12 inches. Perforated 195-210; 235-246.	1075B	62	*261	24	6/ 4/31	46 7	-------	29	220	20	40	Tr.	52	13	34
C-950v-M-14	Dr. R. D. Temple. E. of Cypress; 640 feet E. of Miller Road, 80 feet N. of Lincoln Ave. Use: Domestic.	1076A	58	--------	7	5/22/31	45 5	-------	34	226	18	31	1	43	14	39
C-968c-L-15	F. W. Emery Estate, Well 1. E. of Buena Park; 150 feet N. of Artesia Ave., extended, 2,400 feet E. of Magnolia Ave., 600 feet N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 10 inches. Perforated 200-400.	1132A	90	x400	(g) (h)	6/ 9/31 6/22/31	- --- 79 6	- ---- 0 14	39 40	257 268	43 39	142 149	------- 12	69 69	20 23	[c]76 [c]81
C-968d-L-15	F. W. Emery Estate, Well 3. E. of Buena Park; 150 feet N. of Artesia Ave., extended, 1,600 feet E. of Magnolia Ave., 400 feet N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 15¼ inches. Perforated 100-225; 240-300.	1122B	95	x590	(g) (h)	6/ 9/31 7/31/31	------- 75.3	------- 0 16	37 42	252 290	39 37	126 132	------- 7	67 66	20 21	[c]66 [c]84
C-970f-K-15	Bastanchury Ranch Co., Red Tank Well 1. SE. of La Habra; 2,915 feet S. of Cedar Ave., 1,780 feet E. of Hiatt St., extended. Use: Irrigation. Casing: 14 inches. Perforated 413-685.	1759	386	*x701	(k) (g) (h)	1921 6/ 9/31 6/22/31	-------- ------- 105	------- 0 30 0 21	49 50 48	277 331 332	110 103 99	180 140 143	0 ... 0	66 65 67	31 29 30	[c]130 [c]129 [c]122
C-970j-K-15	Bastanchury Ranch Co., North Laguna Well 1. SE. of La Habra; 5,120 feet S. of Cedar Ave., 2,670 feet E. of Hiatt St., 2,300 feet W. of State Highway. Use: Irrigation. Casing: 13 inches. Perforated 275-300; 300-475.	1769	435	*x727	(k) (g) (h)	1921 6/ 9/31 6/22/31	-------- - - - 128	------- 0 71 0 50	61 63 64	329 413 396	115 135 142	189 146 182	0 ---- 0	68 56 58	16 28 27	[c]167 [c]196 [c]211
C-970n K 15	Bastanchury Ranch Co., Lake Well 2. SE. of La Habra; 3,855 feet S. of Cedar Ave., 2,395 feet E. of Hiatt St., extended, 2,600 feet W. of State Highway. Use: Irrigation. Casing: 15½ inches. Perforated 262-714.	1769B	317	*x750	(g) (h)	6/ 9/31 6/22/31	... --- 126	-------- 0.24	61 64	331 327	131 121	216 231	-- ---- 0	59 76	28 14	[c]192 [c]198
C-970o-K-15	Bastanchury Ranch Co., Subdivision Well 1. SE. of La Habra; 2,330 feet S. of Cedar Ave., 3,095 feet E. of Hiatt St., extended, 1,700 feet W. of State Highway. Use: Irrigation. Casing: 16 inches. Perforated 280-800.	1769C	338	*x860	(g) (h)	6/ 9/31 6/22/31	 123	0 30 0 15	44 46	331 339	156 149	119 138	- - 9	80 79	35 37	[c]125 [c]133
C-971e-L-15	Bastanchury Ranch Co., Lemon Mesa Well 1. NW. of Fullerton; 1.0 miles N. of Artesia Ave., extended, 1.3 miles E. of Magnolia Ave., extended, 1,625 feet E. and 75 feet S. of NW. corner of Sec. 29, T. 3 S., R. 10 W., S. B. B. & M. Use: Irrigation. Casing: 12 inches. Perforated 154-176; 310-325; reperforated 180-335.	1141	260	*x352	(g)	June, 1927	- ----	-----	56	225	41	70	--------	37	11	[c]81

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-971f-L-15	Bastanchury Ranch Co., Coyote Well 1. NW. of Fullerton; 1.0 mile N. of Artesia Ave., extended, 1.07 miles E. of Magnolia Ave., extended, 350 feet E. and 25 feet S. of NW. corner of Sec. 29, T. 3 S., R. 10 W., S. B. B. & M. Use: Irrigation. Casing: 12 inches. Perforated 162-175; 235-245; 348-368.	1141A	255	*x477	(k)	1921	-	- - -	79	[a]261	59	70	0	20	7	[c]136
					(g)	6/ 9/31		-	82	218	46	76	.	17	4	[c]121
C-971j-L-15	Bastanchury Ranch Co., Bastanchury Well 4, South Laguna Well 1. N. of Fullerton; 170 feet E. and 202 feet N. of W. ¼ corner of Sec. 21, T. 3 S., R. 10 W., S. B. B. & M., 3,400 feet W. of Fullerton Road (State Highway). Use: Irrigation. Casing: 15½ inches. Perforated 190-541; plugged at 573 feet. Converted oil well.	1150	342	*x3910	(g)	6/ 9/31	.....	0.40	36	252	121	207	- - -	103	30	[c]97
					(h)	6/22/31	131	0.23	46	333	124	244	0	79	44	[c]151
C-971m-L-15	Bastanchury Ranch Co., Fullerton Heights Well 1 (formerly Bastanchury Well 6). N. of Fullerton; 2,200 feet W. of Spadra Road, 3,800 feet N. of Chapman Ave., 500 feet W. of P. E. Ry. Use: Irrigation. Casing: 12½ inches. Perforated 180-750. Converted oil well.	1161	266	*x5202	(g)	6/ 9/31	.	0.19	49	261	85	124	- - .	59	22	[c]104
					(h)	6/22/31	82.1	0.08	49	250	73	113	8	53	21	[c]99
					(h)	7/31/31	79.6	0.19	51	271	69	103	6	50	22	[c]101
C-971o-L-16	Bastanchury Ranch Co., Black Hill Well 3 (formerly San Juan Well 3). N. of Fullerton; 2,700 feet E. of Fullerton Road (State Highway), 1,300 feet S. and 1,100 feet E. of the NW. corner of Sec. 22, T. 3 S., R. 10 W., S. B. B. & M. Use: Irrigation. Casing: 15½ inches. Perforated 145-616; plugged at 745 feet. Converted oil well.	1170B	309	*x4628	(g)	6/23/31	- - -	0.54	69	392	117	71	- - - . .	32	23	[c]177
					(h)	6/22/31	90.6	0.36	76	336	87	103	0	30	11	[c]177
					(h)	7/31/31	88.2	0.39	70	320	78	119	0	28	19	[c]160
C-971p-L-15	Bastanchury Ranch Co., Black Hill Well 1 (formerly Creek Well 1). N. of Fullerton; 500 feet E. of Fullerton Road (State Highway), 1,500 feet E. and 925 feet N. of center of Sec. 21, T. 3 S., R. 10 W., S. B. B. & M. Use: Not used. Casing: 24 inches. Perforated 60-80; 140-160; 180-255; 275-315; 335-350; 366-450.	1170C	236	*x451	(k)	1921		- - -	46	332	113	216	0	84	35	[c]140
					(i)	10/23/26		.	84	3,267	247	179	. .	178	16	[c]1242
C-971r-L-15	Bastanchury Ranch Co., Coyote Well 2. NW. of Fullerton; 1.0 mile N. of Artesia Ave., 0.5 mile E. of Magnolia Ave., extended, 30 feet E. and 40 feet S. of N. ¼ corner of Sec. 30, T. 3 S., R. 10 W., S. B. B. & M. Use: Irrigation. Casing: 16 inches. Perforated 275-676.	1131	283	*x700	(g)	6/ 9/31		0.30	77	235	68	80		22	7	[c]132
					(h)	6/22/31	74.3	0.24	78	235	67	84	0	22	6	[c]135
C-971t-L-15	Bastanchury Ranch Co., Santa Fe Well 3. W. of Fullerton; 310 feet S. of Commonwealth Ave., 0.49 miles W. of Euclid Ave., N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 16 inches. Gravel 160-170; 210-290; 300-310; 350-380; 385-404; 410-415.	1153C	121	*x515	(g)	6/ 9/31	.	0.21	24	335	103	205	.	142	30	[c]71
					(h)	6/22/31	101	0.13	29	314	75	158	42	116	26	[c]76
C-971u-L-15	Bastanchury Ranch Co., Valencia Mesa Well 1. N. of Fullerton; 890 feet E. of Euclid Ave., extended, 4,300 feet N. of Malvern Ave., 540 feet S. of N. line of Sec. 28, T. 3 S., R. 10 W., S. B. B. & M. Use: Irrigation. Casing: 18 inches. Perforated 210-840; shot 390, 400, 500, 525, 550, 575, 600, 625, 650, 675, 700, 725, 750, 800, 850. Converted oil well.	1161A	261	*x6024	(g)	6/ 9/31	.....	0.25	50	270	92	90	- - - . .	56	20	[c]102
					(h)	6/22/31	99.4	0.14	51	287	99	127	12	64	23	[c]121
C-971v-L-15	Bastanchury Ranch Co., Reservoir Hill Well 1. N. of Fullerton; 200 feet E. of Fullerton Road (State Highway), 1,100 feet E. and 750 feet N. of center of Sec. 21, T. 3 S., R. 10 W., S. B. B. & M. Use: Irrigation. Casing: 16 inches. Perforated 220-535.	1170D	318	*x640	(g)	6/ 9/31	.....	0.73	65	348	160	73	- -	39	26	[c]176
					(h)	6/22/31	152	0.48	50	351	220	155	0	91	37	[c]175
C-972g-L-16	Union Oil Co., Well 13. SW. of Brea; 0.3 miles S. from Fullerton City limits at Fullerton Road (State Highway), then due W. 0.62 mile to cemetery, then S. 0.13 mile. Well is just S. of cemetery. Use: Irrigation. Casing: 20 inches. Perforated 309-327; 390-398; 463-483; 500-514.	1789	329	*653	(h)	7/31/31	94.7	0.46	74	332	76	122	0	27	16	[c]172
C-972m-K-16	Union Oil Co., Well 3. S. of Brea; 50 feet N. of Golden Ave., 100 feet E. of Pomona Ave. Use: Irrigation. Casing: 16 inches. Perforated 260-635.	1799	335	*x635	(j)	Sept., '26	- - -	- - -	34	287	135	198	- - . . .	94	44	[c]99
					(j)	Sept., '26	- - - -	-	32	342	145	215		90	62	[c]106
					(j)	4/23/31	- -	0.26	29	254	148	246	- - .	123	42	[c]88
					(j)	June, 1931	---	...	30	252	137	243	. . .	116	40	[c]91
					(h)	6/22/31	125	0.23	41	281	128	242	1	91	40	[c]123
C-974b-M-16	Anaheim Union Water Co., Crowther Well 3. NE. of Anaheim; 200 feet S. of Orangethorpe Ave., 150 feet W. of Placentia Ave. Use: Irrigation. Casing: 20 inches. Perforated 98-142; 276-388.	15614A	197	*x390	79	6/19/31	71.6	.....	31	265	53	68	10	76	21	57
C-974f-M-16	Section 2 Water Co. NE. of Anaheim; 95 feet W. of Placentia Ave., 300 feet S. of Placentia and Cypress Avenues Y intersection. Use: Irrigation. Casing: 16 inches.	15615A	186	340	(h)	Oct., 1918	- - - - -	- - - -	32	[a]259	49	64	6	70	17	[c]52

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-974o-M-16	Anaheim Union Water Co., Crowther Well 6. NE. of Anaheim; 125 feet W. of Placentia Ave., 75 feet S. of Orangethorpe Ave., 25 feet W. of Well 5. Use: Irrigation. Perforated 280-385; 420-455.	15614E	197	*504	78 (d)	6/17/31 2/ 3/32		..	34	278	59 52	65	9 ..	77	18	62
C-974q-L-16	Union Oil Co., Well 13. N. of Fullerton; 2,000 feet NW. of Brea Blvd., 1,500 feet N. and 125 feet W. of Center of Sec. 22, T. 3 S., R. 10 W. S. B. B. & M. Use: Irrigation. Casing: 20 inches. Perforated 309-327; 390-398; 463-483; 500-514.	1180A	324	x653	(h) (a)	5/29/31 6/ 1/31	112	0.58 0.79	57 71	296 a373	108 116	167 103	Tr ...	20 30	48 23	c150 c187
C-975b-L-15	C. G. Coggeshall. N. of Anaheim; 500 feet W. of Spadra Road, 100 feet N. of Orangethorpe Ave. Use: Domestic. Casing: 7 inches.	1174	149	(x)	(d)	4/17/31	..	.	..	146	271	..	...	....	..	
C-976a-M-16	City of Anaheim, Well 6. Anaheim; 0.19 miles N. of E. La Palma St., 225 feet W. of Patt St., 25 feet W. of Well 7. Use: Irrigation. Casing: 24 inches. Perforated 310-411; 466-493; 560-610.	1185	156	*637	(f)	4/22/31	....	.....	...	252	41	b55	.....	.....	.....	.....
C-976b-M-16	City of Anaheim, Well 7. Anaheim; 0.19 miles N. of La Palma St., 200 feet W. of Patt St., 25 feet E. of Well 6, near Anaheim Sugar Co. plant. Use: Municipal. Casing: 24 inches. Perforated 324-415; 480-491; 575-608.	1185A	156	*x642	(f) 259	7/22/31 8/27/31	.... 62.6	..... .	... 27	244 259	39 38	b45 59	... 4	... 71	... 18	... 42
C-976c-M-15	City of Fullerton, Well 1. N. of Anaheim; 363 feet N. of La Palma Ave., 122 feet W. of Palm Ave. (Spadra Road). Use: Municipal. Casing: 12 inches. Perforated 310-334; 350-410.	1175D	153	*x424	(f)	4/22/31	...	.....	....	232	30	b50	.....	.....	.....	.....
C-979p-M-16	Perry Mathis. S. of Anaheim; 35 feet S. of Ball Road, 60 feet W. of S. P. R. R., 0.21 miles E. of Los Angeles St. Use: Irrigation. Casing: 16 inches. Perforated 271-305; 317-401.	1198	150	*407	258	8/27/31	48.7	....	27	a214	27	44	2	56	13	32
C-980a-M-14	D. R. Williams. S. of Buena Park; 100 feet N. of S. P. R. R., 200 feet W. of Magnolia Ave. Use: Irrigation and domestic. Casing: 7 inches.	1124	97	x140	334	9/19/31	93.0	0.19	22	284	83	142	1	116	23	52
C-981s-L-14	Orange County Water Works District 2, Well 2. Buena Park; 75 feet S. of S. P. R. R., 150 feet W. of Grand Ave. Use: Municipal. Casing: 12 inches. Perforated 360-380.	1103B	73	*x396	(f) 63	4/22/31 6/17/31	 53.1	.....	 32	226 232	18 18	b35 49	... Tr.	... 52	 19	... 44
C-982q-M-14	Dr. Lee C. Demings. N. of Stanton; 45 feet W. of Dale Ave., 200 feet S. of Orange Ave. Use: Irrigation. Casing: 12 inches.	1117A	84	x160	64	6/17/31	45.9	.....	28	226	18	25	1	51	13	31
C-983L-M-15	P. A. Stanton. W. of Anaheim; 0.10 miles W. of Brookhurst Ave., 240 feet S. of Crescent Ave. (Olive St.). Use: Irrigation and domestic. Casing: 16 inches. Perforated 161-165; 229-230; 350-353; 375-380; 402-437; 460-468; 519-520; 640-644; 680-681; 746-749.	1146B	110	*x761	66	6/17/31	58.5	...	28	232	34	56	9	67	14	40
C-984a-N-14	T. W. Clarke. W. of Stanton; 430 feet S. of Cerritos Ave., 100 feet W. of Western Ave., 10 feet SW. of C-984b-N-14. Use: Domestic and irrigation. Casing: 8 inches.	1099	60	(x)	(d)	4/10/31	.....	.....	.....	a161	18	.....	.....	.....	.....	.....
C-986a-N-15	Mrs. Anna B. Taylor. E. of Stanton; 350 feet N. of Cerritos Ave., 1,200 feet E. of Magnolia Ave. Use: Irrigation and domestic. Casing: 10 inches	1128A	84	x170	67	6/17/31	52.9	.....	31	238	23	52	1	62	13	42
C-986j-N-15	Chris Schneider. N. of Garden Grove; 160 feet S. of Katella Ave., 1,245 feet E. of Euclid Ave. Use: Irrigation. Casing: 16 inches. Perforated below 500 feet.	1169	119	579	(h)	8/12/25	.	.....	21	216	30	55	.....	66	13	26
C-986m-N-14	American States Water Service Co., Stanton Well 1. Stanton; 1,400 feet W. of Dale Ave., 120 feet S. of Cerritos Ave. Use: Municipal.	1119B	72	(x)	65	6/17/31	59.6	...	11	244	34	50	1	68	17	14
C-987k-N-15	R. B. Woodside. W. of Garden Grove; 1,000 feet E. of Gilbert Ave., 200 feet N. of Ocean Ave. Use: Irrigation and domestic. Casing: 12 inches.	14432	75	167	16	5/23/31	61.4	....	29	235	39	62	11	66	15	42
C-987L-O-14	J. E. Webber. N. of Westminster; 0.25 miles W. of S. P. R. R., 100 feet S. of Ocean Ave. Use: Not used. Sampled from standing water. Casing: 7 inches.	592A	50	x268	(d) (d) (d)	2/28/31 3/27/31 6/19/31	... .	... .	.....	a241 a236 a241	20 18 18	.. .. ..	... .	... .	....	.. .. ..

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium: Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-987m-N-14	Pete Page. N. of Westminster; 400 feet E. of S. P. R. R., 1,000 feet N. of Ocean Ave. Use: Not used. Sampled from standing water. Casing: 7 inches.	14402A	57	(x)	(d)	2/28/31	...		...	a220	20	...	...	...	...	...
					(d)	3/27/31	...		...	a226	12	...	...	...	...	...
					(d)	6/19/31	...	...		228	18	...	...	...	...	...
C-987n-O-14	Owner unknown. N. of Westminster; 0.25 miles S. of Ocean Ave., 700 feet E. of Golden West St., near 9-foot concrete standpipe 20 feet N. of galvanized pump house. Use: Not used. Sampled from standing water. Casing: 12 inches.	593B	48	x517	(d)	2/28/31	...	...	...	a94	29	...	...	...	...	...
					(d)	3/27/31	...		...	a99	27	...	...	...	...	...
					(d)	6/19/31	...			a127	21	...	...	...	...	...
C-987n-N-15	Ben Day. NW. of Garden Grove; 0.10 miles S. of Chapman Ave., 150 feet E. of Gilbert Ave. Use: Irrigation and domestic. Perforated 142-158.	14431B	83	*165	312	9/17/31	68 9	0 07	...	259	44		...	...	...	...
C-987z-N-15	F. W. Soest. NW. of Garden Grove; 600 feet W. of Gilbert Ave., 100 feet N. of Chapman Ave. Use: Domestic. Casing: 4 inches. Perforated 80-90.	14431D	80	93	313	9/17/31	50 7	0 07	26	235	20	43	0	59	113	33
C-988a-O-15	N. M. Clinton. E. of Westminster; 150 feet W. of Cannery St., 400 feet S. of Westminster Ave. Use: Domestic and irrigation. Casing: 10 inches. Perforated 135-150.	14424A	55	x153	315	9/17/31	55 4	0 07	28	223	30	53	9	62	13	37
C-988h-N-15	C. N. Jones. W. of Garden Grove; 1,000 feet W. of Magnolia Ave., 500 feet N. of Ocean Ave. Use: Domestic and irrigation. Casing: 8 inches. Perforated 74-90.	14422C	68	94	314	9/17/31	55 4	0 12	29	247	23	56	0	65	13	41
C-989h-O-14	R. F. Hazard. SE. of Westminster; 0.22 miles E. of Huntington Beach Blvd., 690 feet S. of Bolsa Ave. Use: Irrigation. Casing: 10 inches. Gravel 70-85; 105-125; 365-385.	14415	34	*402	9	5/23/31	55 3	...	28	223	34	54	4	61	14	38
C-989k-O-14	R. F. Hazard. SE. of We tminster; 299 feet S. of Bolsa Ave., 1,150 feet E. of Huntington Beach Blvd. Use: Domestic. Casing: 8 inches.	14415A	35	80	6	5/23/31	47 1	...	28	220	18	55	Tr.	53	12	32
C-990b-O-14	Edwards Ranch (Hemstreet, lessee). SW. of Westminster; 75 feet W. of Golden West St., 0.5 miles S. of Westminster Ave. Use: Domestic. Casing: 6 inches.	594A	34	x60	333	9/18/31	47 2	0.18	28	238	16	34	0	54	12	32
C-991a-O-13	West Shore Gun Club. E. of Seal Beach; 50 feet S. of Bolsa Ave., 50 feet W. of road 1.0 miles W. of Bolsa Chica St. Use: Irrigation. Supplies lakes. Flows part time. Casing: 12 inches.	545	7	x900	(d)	11/10/30	...	...	...	a164	20	...	...	...	...	...
					(d)	2/25/31	...	...	...	142	16	...	...	...	...	...
					(d)	6/19/31	...	...	...	a170	18	...	...	...	...	...
C-991c-O-13	Blue Wing Gun Club. E. of Seal Beach; 0.25 miles S. of Bolsa Ave., 450 feet W. of Bolsa Chica St. on Gun Club property. Use: Irrigation. Supplies lakes. Perforated 203-208; 233-240; 297-299.	555B	14	*x320	(d)	11/10/30	...	...	...	192	20	...	...	...	...	...
C-991t-O-13	Blue Wing Gun Club. E. of Seal Beach; 350 feet W. of Bolsa Chica St., 75 feet S. of Bolsa Ave. Use: Not used. Flows part time and supplies lakes. Casing: 12 inches.	555A	15	x700	(d)	11/10/30	...	...	...	a162	18	...	...	...	...	...
					(d)	3/ 2/31	...	...	...	a180	14	...	...	...	...	...
C-992m-P-14	Z. D. Crane. W. of Wintersburg; 250 feet E. of Springdale St., 150 feet S. of Heil Ave. Use: Domestic. Artesian part of time. Casing: 4 inches. Open bottom well in first gravel stratum.	577E	7	65	717	2/15/32	43 4	0.10	27	210	16	35	1	51	12	30
C-992n-P-14	E. Kettler. W. of Wintersburg; 200 feet W. of Springdale St., 75 feet S. of Heil Ave. Use: Not used. Formerly domestic and irrigation, now covered up.	577F	11	300	718	2/15/32	35 1	0 28	80	a198	14	11	0	11	3	73
C-992o-O-14	W. G. Lewis. S. of Westminster; 20 feet S. of Sugar Ave., 1,600 feet E. of Golden West St. Use: Irrigation.	596B	26	850	700	2/ 5/32	40 8	0.12	34	204	13	35	0	47	10	37
C-993d-P-14	Deeble-Chapman. N. of Wintersburg; 315 feet W. of Huntington Beach Blvd., 0.22 miles S. of Smeltzer Ave., 50 feet N. of Holt St. Use: Domestic. Casing: 12 inches. Perforated 208-243; 247-258.	14407	26	*263	14	5/23/31	45 3	...	27	210	18	40	1	50	12	30
C-993i-P-14	C. A. Brush. NE. of Wintersburg; 100 feet W. of Newland St., 550 feet S. of Heil Ave. Use: Irrigation. Casing: 7 inches.	14417C	28	240	698	2/ 5/32	42 9	0 08	28	210	13	38	1	52	12	32
C-995d-P-13	Long Beach Country Club. W. of Wintersburg; 0.22 miles N. of Wintersburg Ave., 0.22 miles E. of Graham St. Use: Irrigation and domestic. Casing: 12 inches. Perforated 475-525.	578	35	*537	34	6/ 5/31	34 3		86	a192	14	9	Tr.	7	2	79

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-995e-P-14	Mr. Buck. SW. of Wintersburg; 0.3 miles E. of Springdale St., 300 feet S. of Slater Ave. Use: Irrigation. Casing: 10 inches.	589C	5	x500	(d)	11/ 7/30				[a]182	20					
					(d)	1/26/31				197	19					
					(d)	3/ 3/31				[a]219	12					
					(d)	3/20/31				[a]236	14					
					(d)	6/18/31				[a]285	18					
C-995g-P-14	Mr. Slater. N. of Huntington Beach; 300 feet E. of Edwards St., 600 feet S. of Talbert Ave. Cased spring in open field. Use: Irrigation. Casing: 3 foot pit.	13180	2	(x)	(d)	11/10/30				252	385					
					(d)	11/25/30				249	305					
					(d)	1/26/31				219	192					
					(d)	3/ 2/31				235	206					
					(d)	3/20/31				[a]256	220					
					(d)	6/18/31				242	207					
					(d)	7/27/31				[a]248	224					
					(d)	8/22/31				[a]280	254					
C-995h-P-13	Sunset Land and Water Co. E. of Sunset Beach; 50 feet N. of Los Patos Ave., 150 feet W. of Algonquin Ave. Use: Municipal. Casing: 6 inches. Perforated 333-357; 384-416.	558	62	*450	(d)	11/ 8/30				[a]180	39					
					(d)	3/ 2/31				[a]176	14					
					(d)	3/20/31				[a]176	14					
					(d)	1/26/31				163	41					
					35	6/ 5/31	31 0		82	[a]146	14	9	Tr.	7	3	63
					(d)	6/18/31				[a]196	16					
					(d)	7/28/31				[a]189	14					
C-995i-P-13	Bolsa Chica Gun Club, Pumphouse 1. SE. of Seal Beach; 0.73 miles W. of Springdale St., 10 feet S. of Slater Ave., extended. Use: Domestic. Casing: 8 inches.	569	10	54	(d)	11/ 7/30				[a]181	20					
					(d)	1/26/31				178	16					
					(d)	3/ 2/31				[a]189	16					
					(d)	3/21/31				177	29					
					81	6/19/31	45 0		48	186	13	30	Tr.	36	8	52
					(d)	7/28/31				[a]207	21					
					(d)	8/27/31				[a]207	18					
C-995j-P-13	Bolsa Chica Gun Club, Pumphouse 3. SE. of Seal Beach; 0.33 miles W. of Springdale St., 45 feet S. of Slater Ave., extended. Use: Irrigation. Supplies lakes. Artesian part of time. Perforated 292-332; 391-396; 721-749; 766-782; 840-848.	579E	8	*917	(d)	11/ 7/30				[a]416	29					
					(d)	3/21/31				343	35					
					82	6/19/31	57 1		87	375	18	0	0	8	6	132
					(d)	6/23/31				[a]323	20					
					(d)	8/27/31				[a]296	21					
C-995m-P-13	George J. McDonald. E. of Sunset Beach; 0.6 miles S. of Smeltzer Ave., 100 feet E. of Bolsa Chica St., 450 feet S. of Heil Ave. Use: Not used. Casing: 10 inches.	557C	18	x200	(d)	6/22/31				[a]177	21					
					(d)	7/29/31				[a]160	29					
C-995n-P-14	Mr. Ruoff. W. of Wintersburg; 200 feet S. of Wintersburg Ave., 175 feet W. of Springdale St. Use: Irrigation and domestic. Casing: 10 inches. Gravel 120-150; 184-200; 390-446.	578A	8	*x537	(d)	11/ 7/30				[a]173	18					
					(d)	1/26/31				163	14					
					(d)	3/ 2/31				[a]179	14					
					(d)	3/20/31				[a]178	11					
					(d)	6/18/31				[a]173	18					
					(d)	6/23/31				[a]183	14					
					(d)	7/27/31				[a]180	20					
					(d)	8/27/31				[a]189	18					
C-995o-P-13	Owner unknown. W. of Wintersburg; 400 feet S. of Wintersburg Ave., 30 feet W. of Graham St. drainage ditch. Use: Not used. Flows part time. Casing: 4 inches.	568B	3	(x)	(d)	1/26/31				190	23					
					(d)	3/ 3/31				[a]198	18					
					(d)	3/20/31				[a]179	18					
					(d)	6/18/31				[a]213	18					
C-995p-P-14	Collins Bros. N. of Huntington Beach; 450 feet N. of Slater Ave., 30 feet W. of Springdale St. Casing in open field. Use: Irrigation. Casing: 14 inches. Perforated 70-82; 306-354.	579B	5	*x354	(d)	1/26/31				197	16					
					(d)	3/ 2/31				[a]115	18					
					(d)	3/20/31				[a]202	14					
C-995u-P-13	Long Beach Country Club, Artesian Well 1. W. of Wintersburg; 125 feet N. of Wintersburg Ave., 600 feet E. of Graham St., in 17th fairway of golf course, interconnected to C-995t-P-13. Use: Artesian. Supplies lakes. Casing: 3 inches. Impossible to tell from which well water comes as they are interconnected underground. Both wells are same depth and 200 feet apart.	568C	5	100	27	6/ 5/31	43 5		31	204	16	38	Tr.	48	11	34
C-995v-P-13	Long Beach Country Club. W. of Wintersburg; 1,060 feet E. of Graham St., 1,160 feet N. of Wintersburg Ave. Use: Irrigation and domestic. Casing: 4 inches.	578B	26	180	26	6/ 5/31	40 9		35	201	16	31	0	42	11	37
C-995z-P-13	Owner unknown. W. of Wintersburg; 300 feet W. of Graham St., 200 feet N. of Wintersburg Ave. Use: Not used. Casing: 5 inches.	568D	4	10	714	2/15/32	68 9	0 08	28	183	85	75	1	74	17	45

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Percent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-995aa-P-13	Test hole. W. of Wintersburg; 100 feet N. of Wintersburg Ave., 20 feet W. of Graham St. O. C. F. C. D. surface water test well 37.	568E	4	.....	(d)	12/12/30	.....	.....	.....	145	59	.....	.....	.....	.....	.....
C-997-P-14	A. Steck. N. of Huntington Beach; 100 feet S. of Talbert Ave., 300 feet W. of Golden West St. Use: Domestic. Casing: 6 inches.	599	57	x110	(d)	11/ 7/30	.....	.....	.....	188	125	.....	.....	.....	.....	.....
					(d)	11/25/30	.....	.....	.....	209	130	.....	.....	.....	.....	.....
					(d)	1/26/31	.....	.....	.....	213	110	.....	.....	.....	.....	.....
					(d)	3/ 3/31	.....	.....	.....	[a]220	104	.....	.....	.....	.....	.....
					(d)	3/20/31	.....	.....	.....	[a]220	93	.....	.....	.....	.....	.....
					(d)	6/18/31	.....	.....	.....	[a]224	71	.....	.....	.....	.....	.....
					(d)	6/23/31	.....	.....	.....	[a]249	70	.....	.....	.....	.....	.....
					(d)	7/29/31	.....	.....	.....	[a]249	64	.....	.....	.....	.....	.....
					(d)	8/22/31	.....	.....	.....	[a]241	64	.....	.....	.....	.....	.....
C-997e-Q-14	The Texas Co. Huntington Beach; 90 feet S. of Yorktown St., 20 feet W. of Delaware Ave. Use: Not used.	13202	53	.....	(d)	Dec., 1930	.....	.....	.....	184	238	.....	.....	.....	.....	.....
					(d)	1/26/31	.....	.....	.....	[a]176	210	.....	.....	.....	.....	.....
					(d)	3/ 3/31	.....	.....	.....	[a]225	12	.....	.....	.....	.....	.....
					(d)	3/31/31	.....	.....	.....	[a]165	12	.....	.....	.....	.....	.....
					(d)	6/18/31	.....	.....	.....	[a]136	342	.....	.....	.....	.....	.....
					(d)	6/22/31	.....	.....	.....	[a]192	338	.....	.....	.....	.....	.....
					(d)	7/27/31	.....	.....	.....	[a]163	27	.....	.....	.....	.....	.....
C-997g-P-14	A. Steck. N. of Huntington Beach; 100 feet S. of Talbert Ave., 100 feet W. of Golden West Ave. Use: Domestic. Casing: 6 inches.	599C	56	x110	331	9/18/31	64 2	0 11	.....	217	71	.....	.....	.....	.....	.....
C-997h-Q-14	American States Water Service Co., Well 2 (formerly Well 8). Huntington Beach; 180 feet W. of Huntington Ave., 25 feet S. of Clay St. (Summit Ave.). Use: Not used (formerly municipal). Perforated 80-118.	13201C	48	*276	(f)	4/21/31	.....	.....	.....	305	595	[b]35	.....	.....	.....	.....
C-997i-Q-14	American States Water Service Co., Well 1 (formerly Well 7). Huntington Beach; 20 feet W. of Huntington Ave., 25 feet S. of Clay St. (Summit Ave.). Use: Not used (formerly municipal). Perforated 100-118; 214-224; 242-254.	13201A	48	*282	(f)	4/21/31	.....	.....	.....	204	75	[b]40	.....	.....	.....	.....
C-997j-Q-14	American States Water Service Co., Well 4 (formerly Well 10). Huntington Beach; 185 feet W. of Huntington Ave., 80 feet S. of Clay St. (Summit Ave.). Use: Not used (formerly municipal). Gravel 78-126.	13201B	47	*165	(f)	4/21/31	.....	.....	.....	330	815	[b]30	.....	.....	.....	.....
C-997k-Q-14	American States Water Service Co., Well 3 (formerly Well 9). Huntington Beach; 20 feet W. of Huntington Ave., 190 feet S. of Clay St. (Summit Ave.). Use: Not used (formerly municipal). Perforated 90-111; 208-216; 228-248.	13201D	46	*262	(f)	4/21/31	.....	.....	.....	235	345	[b]45	.....	.....	.....	.....
C-997u-P-14	Holly Sugar Co. Huntington Beach; 300 feet E. of the east end of Bolsa Ave., 1,200 feet N. of Garfield St. Use: Domestic and industrial.	13191A	60	(x)	468	10/21/31	41 7	0 12	79	[a]232	16	12	0	16	2	84
C-997v-Q-14	Mr. Turley. Huntington Beach; 20 feet E. of Sneltzer Ave., 200 feet S. of Garfield St. Use: Not used. Casing: 8 inches. Sampled at 100-foot depth.	13191B	75	x208	469	10/21/31	537	3 22	37	198	1,757	14	0	474	110	432
C-997w-Q-14	G. Lacabonne. Huntington Beach; 80 feet S. of Yorktown St., 25 feet W. of Florida Ave. Use: Domestic and irrigation. Casing: 7 inches.	13202A	60	113	466	10/21/31	40 4	0 08	32	189	20	32	Tr.	42	10	32
C-998d-O-15	L. L. Bauer. E. of Westminster; 100 feet S. of Bolsa Ave., 70 feet E. of Wright St. Use: Domestic. Casing: 7 inches.	14445A	50	x95	316	9/17/31	52 8	0 09	27	235	21	58	1	61	13	36
C-998h-P-14	American States Water Service Co. N. of Huntington Beach; 250 feet E. of Golden West St., 0.19 miles S. of Slater Ave. Use: Proposed municipal. Casing: 14 inches. Gravel 16-38; 60-85; 175-180; 254-256.	599D	4	*x282	332	9/18/31	44 4	0.11	31	210	16	42	1	46	11	34
C-999b-P-14	Ocean View Mutual Water Co. Wintersburg; 380 feet S. of Wintersburg Ave., 820 feet E. of Huntington Beach Blvd., 180 feet E. of B St. Use: Municipal. Casing: 7 inches.	14418	26	.....	10	5/23/31	43 8		31	207	18	36	2	48	10	33

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-999d-P-14	Mr. Brewster. S. of Wintersburg; 0.10 miles S. of Slater Ave., 300 feet W. of Huntington Beach Blvd., 160 feet N. of C St. Use: Domestic. Casing: 7 inches.	14419	30	x126	(d)	11/ 7/30				205	23					
					(d)	2/25/31				206	20					
					(d)	3/20/31				[a]213	18					
					(d)	6/17/31				[a]217	20					
					(d)	7/25/31				[a]204	18					
					(d)	8/27/31				[a]248	18					
C-999f-P-14	E. J. McCraven. SE. of Winterburg; 100 feet N. of Talbert Ave., 300 feet W. of Newland St. (Pennsylvania Ave.). Use: Domestic. Casing: 12 inches, in bottom of 12-foot pit.	14419A	48	x150	(d)	11/ 6/30				210	25					
					(d)	2/25/31				[a]214	23					
					(d)	3/20/31				[a]220	20					
					11	5/23/31	49 5		31	220	23	46	1	55	11	39
					(d)	6/17/31				[a]208	25					
					(d)	7/25/31				[a]168	25					
					(d)	8/27/31				[a]256	29					
C-999g-P-14	Mrs. Crutchey. N. of Huntington Beach; 150 feet E. of Huntington Beach Blvd., 500 feet N. of Garfield St. Use: Not used since 1930. Casing: 7 inches. Sampled at 60-foot depth.	13211	56	x83	470	10/21/31	75 6	0 22	55	390	48	3	0	28	13	69
C 999w-P-14	R. E. Macintosh. N. of Huntington Beach; 0.37 miles S. of Ellis St., 200 feet W. of Huntington Beach Blvd. Use: Irrigation. Casing: 10 inches. Gravel 115-125; 138-150.	13211B	60	*158	328	9/18/31	43 2	0 12		198	18					
C-1007d-N-13	Jack Dennish. E. of Los Alamitos; 0.25 miles N. of Cerritos Ave., 20 feet E. of Moody St. Use: Domestic.	1058	32		(d)	4/10/31				[a]332	18					
C-1007e-N-13	Los Alamitos Sugar Co. Los Alamitos; 100 feet N. of Katella Ave., 25 feet W. of Moody St. Use: Domestic.	1059A	28		(d)	4/10/31				[a]161	18					
C-1073-M-17	Anaheim Eucalyptus Water Co., South Well. N. of Olive; 70 feet N. of Coronada St., 120 feet W. of Dowling St. Use: Irrigation. Casing: 18 inches. Perforated 211-225; 243-364; 459-485; 493-510.	15644	211	*x515	(d)	2/10/32					68					
C-1078c-M-17	Pilot Water Co. S. of Richfield; 300 feet N. of Norton St. (Corona Ave.) at angle, 400 feet W. of A. T. & S. F. Ry. Use: Irrigation.	15654E	238	(x)	(d)	2/20/32					71					
C-1081j-L-18	Anaheim Union Water Co., Holiday Well 2 (formerly Old Well 12). E. of Richfield; 475 feet N. of N. end of Yorba Bridge, 700 feet S. of A. T. & S. F. Ry., 50 feet E. of Yorba Bridge Road. Use: Irrigation. Casing: 18 inches. Perforated 40-90.	15714C	279	*x100	134	7/15/31	85 4		35	293	78	99	6	86	22	77
C-1081m-L-19	Santa Ana Valley Irrigation Co., Well 6. E. of Richfield; 1,000 feet N. of S. A. V. I. Co. Canal at Mexican's cabin, 1,000 feet W. of Santa Ana River, within Horse Shoe Bend, Lower Santa Ana River Canyon. Use: Irrigation.	15762A	350		227	8/13/31	86 5		33	[a]284	87	100	2	85	25	71
C-1082-L-18	Goodwin Mutual Water Co. E. of Richfield; 350 feet S. of A. T. & S. F. Ry., 0.7 miles E. of Richfield Road. Use: Irrigation. Casing: 18 inches.	15683	260	x200	(d)	2/ 4/32					73					
C-1085j-L-17	Standard Oil Co. W. of Richfield; 30 feet N. of Placentia-Yorba Blvd., at point 200 feet E. of intersection with A. T. & S. F. Ry. Use: Industrial.	15653E	232	x394	(d)	4/11/32					27					
C-1088a-L-16	Mr. Morse. SW. of Placentia; 0.21 miles S. of Placentia-Yorba Blvd., 50 feet W. of dirt road in orange orchard, 0.19 miles W. of Melrose Ave. Use: Irrigation.	15623C	214	x216	(d)	4/11/32					35					
C-1096-L-17	Chanslor Canfield Midway Oil Co., Plant 2. S. of Olinda; 1,400 feet S. of Citrus Ave., 2,400 feet N. of Yorba Linda Blvd., 500 feet E. of Prospect St., 15 feet E. of A. T. & S. F. Ry. One of three wells. Use: Domestic supply for Olinda.	15660			(d)	5/ 2/32					110					
C-1096b-K-16	City of Brea, Well 1. Brea; 0.77 miles SE. of Pomona Ave., 0.13 miles N. of Elm St., 15 feet W. of city limits. Use: Municipal. Casing: 14 inches.	1819A	305	*680	(f)	4/22/31				342	45	[b]30				
C-1096i-K-16	City of Brea, Well 2. Brea; 0.77 miles SE. of Pomona Ave., 0.06 miles N. of Elm St., 100 feet W. of city limits. Use: Municipal. Casing: 18 inches. Gravel 190-192; 208-210; 317-327; 342-348; 450-453; 535-538; 605-611.	1819B	332	*616	(f)	4/22/31				214	48	[b]20				

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1096k-K-18	La Vida Mineral Water Co., La Vida Spring. NE. of Olinda; 150 feet N. of Carbon Canyon Road near bottling plant, 1.35 miles SW. of Orange County line, 2.70 miles NE. of main street in Olinda. Use: Domestic.	1906	790	2,035	798	3/10/32	667	5 14	97	3,187	960	0	0	10	20	1,709
C-1096L-K-16	Union Oil Co., Syndicate Well 1. N. of Brea; 200 feet E. of Brea Road, 50 feet S. of Central Ave., extended. Use: Abandoned and filled in. Casing: 17 inches. Perforated 110-300; 420-795.	1806	385	*1,125	(i)	9/12/29	-------	-------	49	423	589	1,181	-------	215	165	[c]545
C-1096m-K-16	Union Oil Co., Union Well 4. S. of Brea; 100 feet N. of Golden Ave., 4,200 feet E. of Pomona Ave. Use: Irrigation. Casing: 16 inches. Perforated 290-620.	1809	362	*x645	(j)	Sept., '26	-------	-------	72	335	197	27	-------	37	35	[c]276
					(j)	Oct., 1927	-------	-------	62	[a]485	173	43	-------	38	40	[c]198
					(j)	4/23/31	-------	0 26	69	651	229	85	-------	42	45	[c]301
					(h)	6/22/31	151	0.45	67	665	188	80	0	41	47	[c]275
C-1096n-K-16	Union Oil Co., Union Well 7. NE. of Brea; 3,300 feet E. of Pomona Ave., 1,140 feet N. of Deodora St. Use: Irrigation. Casing: 16 inches. Perforated 390-840.	1817A	461	*x930	(j)	Dec., 1927	-------	-------	39	342	103	91	-------	68	35	[c]94
					(j)	4/23/31	-------	0.18	39	332	101	73	-------	68	32	[c]87
					(h)	6/22/31	93.9	0 09	43	342	89	66	17	59	32	[c]96
C-1096o-K-17	Union Oil Co., Union Well 8. NE. of Brea; 30 feet S. of Deodora St. at curve in street, 1,500 feet W. of Caroline St., extended. Use: Irrigation. Casing: 16 inches. Perforated 390-750.	1837	471	*x755	(j)	Feb., 1928	-------	-------	40	413	88	191	-------	78	49	[c]121
					(j)	4/23/31	-------	-------	45	341	106	182	-------	76	37	[c]128
					(j)	June, '31	-------	0 34	51	346	121	138	-------	61	34	[c]140
					(h)	6/23/31	112	0 18	56	342	112	141	2	53	30	[c]152
C-1096p-K-17	Union Oil Co., Union Well 10 (formerly Union Oil Co. Well Naranjal 10). W. of Olinda; 650 feet N. of Brea-Olinda Road, 0.86 miles W. of Caroline St., 300 feet W. of Valencia Ave. Use: Not used since 1927. Conglomerate 765-1196.	1858	465	*3,255	(j)	4/11/27	-------	-------	44	323	149	400	-------	81	72	[c]180
C-1097-L-17	H. H. Hale. N. of Placentia; 65 feet E. of Valencia Ave., 0.4 miles N. of Yorba Linda Blvd. Use: Domestic.	15640	335	x311	(d)	4/11/32	-------	-------	-------	-------	109	-------	-------	-------	-------	-------
C-1097a-L-16	Union Oil Co., Union Well 11. NE. of Fullerton; 2,500 feet N. of Pioneer St., extended, 800 feet W. of Cypress Ave., extended. Use: Irrigation. Casing: 10 inches. Perforated 336-800; plugged at 1,635 feet. Converted oil well.	15600	388	*x3750	(j)	June, '26	-------	-------	77	488	153	132	-------	18	32	[c]276
					(j)	Sept., '26	-------	-------	75	[a]535	163	155	-------	16	41	[c]286
					(j)	April, 1931	-------	-------	75	625	166	55	-------	20	37	[c]277
					(h)	6/15/31	153	0 58	76	497	153	177	Tr.	17	37	[c]282
					(g)	7/23/31	-------	0 77	78	[a]542	149	62	-------	15	29	[c]259
C-1097b-L-16	Bastanchury Ranch Co., Amalgamated Well 1. NE. of Fullerton; NE¼ of NE¼ of Sec. 23, T. 3 S., R. 10 W., S. B. B. & M. Use: Domestic and irrigation. Casing: 9 inches. Perforated 360-388. Analysis of 10/26/28 is of water found above 310 feet. The 9-inch screw casing was then driven down to case off this water and a perforated liner inserted to produce from the bottom stratum, and later analyses are of water from this stratum.	15600A	380	x388	(g)	10/26/28	-------	-------	54	321	140	120	-------	57	30	[c]143
					(g)	8/24/29	-------	-------	32	187	30	29	-------	35	16	[c]33
					(h)	7/31/31	56 6	0.17	45	238	37	59	0	40	17	[c]64
C-1097c-L-17	Holly Development Co., Barnette Well 1. S. of Olinda; 800 feet S. of Golden Ave., 280 feet E. of Rose Drive. Water wasted into Carbon Canyon 1,200 feet S. of Golden Ave.	15650	365	-------	1,210	7/16/32	606	5 60	-------	[a]4,069	405	-------	-------	-------	-------	-------
C-1101-M-17	Section 13 Water Co. E. of Anaheim; 30 feet W. of Rio Vista St., 1,850 feet S. of South St. Use: Irrigation. Casing: 16 inches. Perforated 165-170; 318-340.	15627A	185	*x345	269	8/27/31	69	0 08	31	259	53	65	9	71	18	53
C-1124b-M-16	City of Anaheim, Well 3. Anaheim; 125 feet E. of Los Angeles St., 150 feet S. of Santa Ana St., 25 feet W. of Well 4. Use: Municipal. Perforated 290-323.	1187A	149	*x333	(f)	4/22/32	-------	-------	-------	195	46	[b]55	-------	-------	-------	-------
C-1124g-M-16	City of Anaheim, Well 2. Anaheim; 100 feet E. of Los Angeles St., 150 feet S. of Santa Ana St., in red brick pump house, 20 feet W. of Well 1. Use: Municipal. Gravel 86-125; 190-223; 268-329.	1187B	150	*333	(f)	4/22/31	-------	-------	-------	226	47	[b]35	-------	-------	-------	-------
C-1124h-M-16	City of Anaheim, Well 4. Anaheim; 150 feet E. of Los Angeles St., 150 feet S. of Santa Ana St., 25 feet E. of Well 3. Use: Municipal. Perforated 288-323.	1187C	150	*335	(f)	4/22/31	-------	-------	-------	232	47	[b]50	-------	-------	-------	-------
C-1130a-N-15	Wm. E. Schnitger. N. of Garden Grove; 0.2 miles E. of Euclid Ave., 0.12 miles N. of Chapman Ave., 8 feet from 10-inch irrigation well in same pit. Use: Domestic. Casing: 7 inches. Passed through water softener for domestic use.	14461A	106	x128	(k)	Nov., 1918	-------	-------	31	222	44	40	9	68	12	45
					311	9/17/31	69 7	0 07	27	238	48	81	21	77	17	45
C-1130f-N-15	A. D. Smiley, Well 2. N. of Garden Grove; 1,500 feet N. of Chapman Ave., 350 feet W. of Euclid Ave. Use: Irrigation and domestic. Casing: 16 inches. Perforated 155-173; 175-190.	14450	102	*x285	266	8/27/31	82.0	-------	22	256	77	94	11	95	23	43

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1130h-N-15	A. D. Smiley, Well 1. N. of Garden Grove; 1,500 feet N. of Chapman Ave., 377 feet W. of Euclid Ave., 27 feet W. of C-1130f-N-15. Use: Not used. Casing: 7 inches. Perforated 122-170; and possibly from 90-105.	14450A	102	170	(k)	Nov., 1918	-	..	24	244	47	44	2	73	14	35
C-1154c-O-15	Mrs. A. F. Mills. S. of Garden Grove; 275 feet W. of Verano St., 150 feet S. of Trask Ave., extended. Use: Irrigation. Casing: 12 inches. Perforated 134-168.	14463A	81	*182	(d)	7/ 3/31	....	..	.....	[a]220	45	.....	.....	.....	....	.....
C-1157b-N-15	Edward Chaffee. Garden Grove; 0.25 miles N. of Ocean Ave., 200 feet W. of Nutwood St., NW. of house and just E. of pump house. Use: Domestic and irrigation.	14452A	85	(x)	(d) (d)	4/14/31 6/22/31	....	....	....	166 [a]205	50 50	....	....	....	.....	.....
C-1158-N-16	W. W. Dungan. E. of Garden Grove; 550 feet N. of Ocean Ave., on W. line of Buaro St., extended. Use: Irrigation. Casing: 16 inches. Gravel 90-138; 164-190; 200-212.	14482A	103	*216	267	8/27/31	58 5	..	28	253	30	52	9	66	15	40
C-1160-O-16	George R. W. Roberts. SE. of Garden Grove; 530 feet E. of Buaro St., 600 feet S. of 17th St. (Westminster Ave.). Use: Domestic and irrigation. Casing: 7 inches.	14484	85	x140	300	9/17/31	85.7	0.08	...	305	59	.....	.....	.....	.....	..
C-1160d-O-16	W. M. Paquette. SE. of Garden Grove; 100 feet W. of Buaro St., 600 feet S. of 17th St. (Westminster Ave.). Use: Domestic. Casing: 2 inches.	14484E	85	18	310	9/17/31	116	0 17	26	339	94	187	18	124	34	74
C-1163a-O-16	F. M. Clingan. SE. of Garden Grove; 50 feet S. of 17th St., 80 feet W. of Berrydale Ave., extended. Use: Domestic, perched water. O. C. F. C. D. surface water Well 218.	14494B	97	20	(d) 633	9/ 9/31 1/19/32	. 187	. 0 58	. 51	468 461	250 176	. 361	. 27	.. 104	.. 63	 247
C-1163b-O-16	C. L. Coulson. SE. of Garden Grove; 300 feet W. of Berrydale Ave., extended, 100 feet S. of 17th St. Use: Not used. Casing: 5 inches.	14494C	97	14	634	1/14/32	166	0 40	55	723	131	161	Tr.	90	48	237
C-1166-O-15	S. D. Teal. S. of Garden Grove; 340 feet E. of Newhope St., 0.26 miles S. of 17th St. (Westminster Ave.). Use: Irrigation and domestic. Casing: 12 inches. Gravel 154-178; 192-211.	14474A	78	*211	13	5/23/31	58 6		27	259	32	53	2	69	15	40
C-1167e-O-16	M. C. Heacock. W. of Santa Ana; 785 feet E. of Buaro St., 640 feet N. of Sugar Ave. Use: Irrigation and domestic. Casing: 8 inches.	14486	71	x163	15	5/23/31	60 1		28	268	28	57	4	69	15	43
C-1167g-O-15	State of California. W. of Santa Ana; 270 feet S. of 5th St., 700 feet W. of Newhope St. Use: Irrigation at U. S. G. S. evaporation station.	14475	70	20	(d) (h) (d) (d) (d) (d) 637	11/20/30 2/25/31 3/ 3/31 3/17/31 4/ 4/31 6/23/31 1/11/32	. 91 6 . . . . 83 6	. . . . . . 0 21	. 17 35	[a]261 268 281 [a]296 [a]309 [a]266 317	57 64 60 64 66 54 57	.... 124 98	 11	.. 98 81	.... 29 27	..... [c]34 76
C-1167h-O-15	B. Brown. W. of Santa Ana; 900 feet W. of Newhope St., 40 feet S. of 5th St. Use: Domestic.	14465C	70		668	1/28/32	77 2	0 12	....	284	55	..	...	...	.	.
C-1167j-O-16	C. W. Blackenbecker. W. of Santa Ana; 115 feet W. of Buaro St., 20 feet S. of 5th St., 10 feet N. and 10 feet E. of old recorder well. Use: Domestic. Casing: 6 inches. Perforated 105-115.	14485B	72	115	318 (d) 667	9/17/31 9/ 9/31 1/28/32	77 6 . 75 3	0 09 ..... 0 10	23	284 283 284	53 57 53	89 . ..	11 . ..	95	18 . ..	44
C-1167k-O-16	Test hole. W. of Santa Ana; 30 feet S. of 5th St., 155 feet W. of Buaro St., 40 feet W. of C-1167j-O-15. Casing: 10 inches. O. C. F. C. D. surface water Well 217.	14485C	72	x10	(d) 317 636 666	9/ 9/31 9/17/31 1/18/32 1/28/32	... 198 210 212	. 1 11 0 89 0 98	.. 81 78 ..	[a]878 [a]877 [a]899 [a]908	96 98 103 105	. 188 230 .	.. 53 49 ..	. 41 54 ..	. 28 41 ...	. 414 482 ..
C-1168a-O-15	Mrs. A.F. Mills. S. of Garden Grove; 100 feet N. of 17th St. (Westminster Ave.), 100 feet W. of Verano St. Use: Domestic.	14464B	73	20	635	1/19/32	137	0 57	67	342	103	243	44	56	26	225
C-1174-P-16	D. C. Powers. W. of Santa Ana; 0.32 miles S. of Smeltzer Ave., 25 feet E. of Buaro St. Use: Irrigation. Casing: 10 inches. Gravel 126-135.	14487A	57	*141	12	5/23/31	55 8		29	238	32	50	6	62	13	40
C-1202g-P-15	G. M. Henson. E. of Wintersburg; 50 feet W. of Newhope St., 120 feet N. of Wintersburg Ave. Use: Domestic.	14478A	43	110	676	1/28/32	45 5	0 08	30	217	18	38	0	50	12	34
C-1255-P-15	Mr. Chaney. NE. of Huntington Beach; 50 feet S. of Talbert Ave., 150 feet W. of Ward St. Use: Irrigation and domestic. Casing: 8 inches.	14459	27	x150	(d) (d) (d)	4/ 9/31 6/17/31 7/28/31	....	....	....	[a]151 [a]239 [a]263	18 35 39	....	....	....	....	. .. .

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium (Na x 100 / Ca + Mg + Na)	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1256a-P-15	John E. Brewer. NE. of Huntington Beach; 50 feet W. of Bushard St., 100 feet S. of Talbert Ave. Use: Domestic. Casing: 8 inches.	14439A	24	(x)	(d)	2/25/31	.....	.....	.....	213	23	.....	.....	.....	.....	.....
					(d)	3/18/31	.....	.....	.....	[a]216	31	.....	.....	.....	.....	.....
					(d)	4/ 9/31	.....	.....	.....	[a]226	27	.....	.....	.....	.....	.....
					(d)	11/ 6/31	.....	.....	.....	[a]215	25	.....	.....	.....	.....	.....
C-1256b-P-15	Otto Faulkins. NE. of Huntington Beach; 0.27 miles S. of Talbert Ave., 300 feet W. of Bushard St. Use: Domestic. Casing: 6 inches.	13230	22	x150	(d)	11/ 6/30	.....	.....	.....	[a]210	20	.....	.....	.....	.....	.....
					(d)	2/25/31	.....	.....	.....	208	16	.....	.....	.....	.....	.....
					(d)	3/17/31	.....	.....	.....	[a]216	16	.....	.....	.....	.....	.....
					(d)	6/17/31	.....	.....	.....	215	20	.....	.....	.....	.....	.....
					(d)	7/28/31	.....	.....	.....	[a]259	21	.....	.....	.....	.....	.....
C-1257-Q-15	H. J. Lamb. NE. of Huntington Beach; 200 feet W. of Bushard St., 0.5 miles S. of Garfield Ave. Use: Domestic. Casing: 7 inches.	13231	12	x150	(d)	11/ 6/30	.....	.....	.....	195	23	.....	.....	.....	.....	.....
					(d)	2/25/31	.....	.....	.....	[a]200	16	.....	.....	.....	.....	.....
					(d)	3/20/31	.....	.....	.....	[a]206	16	.....	.....	.....	.....	.....
					(d)	6/ 8/31	.....	.....	.....	220	20	.....	.....	.....	.....	.....
					(d)	7/24/31	.....	.....	.....	[a]219	23	.....	.....	.....	.....	.....
					(d)	8/27/31	.....	.....	.....	[a]229	18	.....	.....	.....	.....	.....
C-1257i-P-14	H. T. Grove. N. of Huntington Beach; 800 feet S. of Talbert Ave., 250 feet E. of Huntington Beach Blvd. Use: Domestic and irrigation. Casing: 7 inches.	13210C	55	x135	329	9/18/31	48 5	0 09	28	220	21	46	2	56	12	33
C-1257v-Q-14	Associated Oil Co. NE. of Huntington Beach; 100 feet S. of Garfield St., 0.35 miles E. of Huntington Beach Blvd., 150 feet E. of boiler plant at Huntington Beach tank farm. Use: Boiler feed and domestic. Casing: 10 inches. Perforated 130-146; 168-182.	13211C	57	*182	59	6/16/31	45 6	.....	32	201	16	30	1	49	13	39
C-1257w-Q-15	T. Yoshikawa. NE. of Huntington Beach; 100 feet W. of Cannery St., 80 feet S. of Garfield St. Use: Domestic. Casing: 3 inches.	13221B	13	90	330	9/18/31	44 4	0 13	.....	217	16	.....	.....	.....	.....	.....
C-1258L-P-15	Orange County, Cities Joint Outfall Sewer District. NE. of Huntington Beach; 600 feet S. of Ellis Ave., 100 feet W. of Verano St., extended. Use: Domestic and sewer plant supply. Casing: 5 inches.	13260A	26	x160	241	8/20/31	45 8	.....	34	210	16	48	1	49	13	42
C-1258s-Q-15	Robert Gisler. NE. of Huntington Beach; 600 feet S. of Garfield St., 600 feet E. of Ward St. Use: Irrigation. Casing: 10 inches.	13251B	18	140	694	2/ 5/32	55 5	0 10	25	244	28	53	4	68	15	37
C-1259-Q-14	F. E. Farnsworth. Huntington Beach; 250 feet N. of Indianapolis St. 200 feet E. of Hampshire Ave. Use: Domestic. Casing: 8 inches.	13213C	28	x102	327	9/18/31	40 3	0 10	.....	198	12	.....	.....	.....	.....	.....
C-1259b-Q-14	T. Long. Huntington Beach; 50 feet S. of Hartford St., 130 feet E. of Huntington Ave. Use: Not used. Casing: 7 inches. Sampled at 50-foot depth. Water has H_2S odor.	13203C	50	x90	457	10/19/31	48 0	0.28	44	192	60	2	0	35	10	46
C-1259c-Q-14	Mr. Renick. Huntington Beach; 100 feet N. of Elmira St., 120 feet E. of California Ave. Use: Not used. Casing: 7 inches. Sampled at 40-foot depth.	13203D	31	(x)	461	10/19/31	52 1	0 25	48	149	98	2	0	37	10	58
C-1259d-Q-14	L. W. Cady. Huntington Beach; 100 feet S. of Indianapolis St., 525 feet E. of Delaware Ave. Use: Not used. Casing: 7 inches. Sampled at 40-foot depth.	13203E	33	x130	464	10/19/31	56 9	0 14	54	223	62	24	0	37	12	75
C-1259e-Q-14	Mr. Newland. NE. of Huntington Beach; 450 feet N. of Quincy St., 150 feet E. of Hampshire Ave. Use: Domestic. Casing: 16 inches. Perforated above plug at 600 feet. Converted oil well.	13212E	53	x600	467	10/21/31	48 9	0.31	82	311	16	0	0	13	4	107
C-1259f-Q-14	Thompson oil lease. Huntington Beach; 150 feet E. of Hampshire Ave., 50 feet N. of Knoxville St., extended. Use: Domestic. Casing: 7 inches. W. S. P. 137, Well No. 1286, Santa Ana Quad.	13213B	30	x133	465	10/19/31	373	0 08	54	223	14	10	0	31	6	55
C-1260-Q-14	Mr. Newland. E. of Huntington Beach; 0.25 miles W. of Cannery St., 120 feet S. of Indianapolis St. Use: Not used. Casing: 10 inches.	13223	6	(x)	(d)	11/ 5/30	.....	.....	.....	195	21	.....	.....	.....	.....	.....
					(d)	2/25/31	.....	.....	.....	[a]200	17	.....	.....	.....	.....	.....
					(d)	3/20/31	.....	.....	.....	[a]207	16	.....	.....	.....	.....	.....
					(d)	6/17/31	.....	.....	.....	[a]216	14	.....	.....	.....	.....	.....
					(d)	7/25/31	.....	.....	.....	[a]144	14	.....	.....	.....	.....	.....
					(d)	8/27/31	.....	.....	.....	[a]156	14	.....	.....	.....	.....	.....

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Percent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1260a-Q-15	Owner unknown. E. of Huntington Beach; 150 feet N. of Indianapolis St., 150 feet W. of Cannery St., on old pickle factory site. Use: Irrigation. Casing: 4 inches.	13223A	8	(x)	(d)	6/22/31				[a]264	139					
					(d)	6/25/31				[a]276	139					
					(d)	7/29/31				[a]186	150					
C-1261-Q-14	Standard Oil Co. (lessee), Gisler Well 1. E. of Huntington Beach; 0.3 miles W. of Newland St. drainage ditch and 250 feet S. of Atlanta Ave. Abandoned oil well casing with large wooden plug. Use: Not used. Casing: 16 inches. Perforated 100-180. Sampled 10/19/31 at 100-foot depth.	13214	5	*x439	(d)	11/ 5/30				111	30					
					(d)	2/ 2/31				123	25					
					(d)	3/21/31				[a]134	34					
					(d)	6/ 8/31				[a]104	29					
					(d)	7/25/31				[a]173	32					
					460	10/19/31	393	0 40	36	198	12	28	0	40	10	36
C-1261b-Q-14	Dave Stewart. Huntington Beach; 150 feet E. of Delaware Ave., 130 feet S. of Frankfort St. Use: Domestic. Casing: 7 inches.	13203A	30	x144	(d)	1930				[a]209	87					
					(d)	1/26/31				[a]206	82					
					(d)	3/ 3/31				[a]238	16					
					(d)	3/31/31				[a]218	94					
					(d)	6/17/31				[a]212	100					
					(d)	6/22/31				[a]207	104					
					(d)	7/27/31				[a]223	193					
					(d)	8/27/31				[a]212	389					
					462	10/19/31	202	0 12	25	192	542	56	0	216	46	112
					(d)	2/18/32					453					
C-1261c-Q-14	Mr. Brown. Huntington Beach; 80 feet N. of Hartford St., 100 feet W. of California Ave. Use: Domestic.	13203B	52	110	(d)	2/ 2/31				206	37					
					(d)	3/ 3/31				[a]227	11					
					(d)	3/31/31				[a]229	46					
					(d)	6/18/31				[a]212	46					
					(d)	7/27/31				[a]232	43					
					463	10/19/31	52 5	0 08	36	210	46	34	0	55	9	45
					(d)	Dec.,1931				205	46					
C-1261d-Q-14	Mr. Thompson. Huntington Beach; 150 feet N. of Quincy St. (Adams St.), 25 feet SE. of Wardlow Oil Well 1, 0.10 miles W. of Hampshire Ave. Use: Not used since April 1931 (formerly dome tic).	13212	31	122	(d)	12/ 6/30				197	38					
					(d)	1/26/31				[a]194	39					
					(d)	3/31/31				[a]226	35					
C-1261e-Q-14	Mrs. Spoonhauer. Huntington Beach; 100 feet W. of Delaware Ave., 130 feet N. of Lincoln St. Use: Domestic.	13203	32		(d)	1/26/31				188	35					
					(d)	3/ 3/31				[a]227	11					
					(d)	3/31/31				[a]230	29					
					(d)	6/18/31				[a]219	50					
					(d)	6/23/31				217	52					
					(d)	7/27/31				[a]216	46					
					(d)	Dec.,1931				203	32					
C-1261f-Q-14	Owner unknown. E. of Huntington Beach; 50 feet W. of Hampshire St., 230 feet S. of Indianapolis Ave. Use: Not used. Casing: 8 inches. Sampled from surface of standing water.	13213	5		(d)	6/ 8/31				[a]143	39					
					(d)	6/22/31				[a]152	39					
					(d)	7/25/31				[a]181	46					
					(d)	8/27/31				[a]212	42					
C-1261n-Q-14	Standard Oil Co., Farnsworth Fee Water Well 2A. E. of Huntington Beach; 160 feet E. of Hampshire Ave., 261 feet N. of Atlanta Ave. Use: Industrial. Casing: 20 inches. Gravel 163-333.	13214B	4	*333	319	9/18/31	96 5	0 09	24	195	190	35	0	105	23	53
C-1261w-Q-14	T. S. Ban, (lessee). E. of Huntington Beach; 30 feet S. of Atlanta Ave., 1 mile E. of Lake Ave., 100 feet W. of Newland St. ditch. Use: Domestic.	13224E	5	(x)	320	9/18/31	41 4	0 11	35	204	12	32	0	43	10	37
					641	1/19/32	40 3	0 31	37	204	13	31	0	42	8	38
C-1262a-Q-15	Sam Gisler. E. of Huntington Beach; 450 feet E. of Cannery St., 200 feet N. of Atlanta St. Use: Domestic.	13234	5		(d)	3/ 3/31				[a]214	14					
					(d)	3/20/31				[a]290	109					
					(d)	6/ 8/31				[a]298	164					
					(d)	7/25/31				[a]400	350					
					(d)	8/22/31				[a]325	196					
					321	9/18/31	132	0 28	71	[a]302	224	77	1	37	23	210
C-1262b-Q-15	R. L. Farnsworth. E. of Huntington Beach; 0.25 miles N. of Atlanta Ave., 150 feet W. of Bushard St. Use: Domestic. Casing: 6 inches. Open bottom well.	13233	8	x150	(d)	11/ 6/30				[a]196	21					
					(d)	2/25/31				193	17					
					(d)	3/20/31				[a]204	18					
					(d)	6/17/31				[a]218	20					
					(d)	7/25/31				[a]204	18					
					(d)	8/27/31				[a]225	18					
					326	9/18/31	40 8	0 12		204	14					
C-1262h-Q-15	Mr. Sasoku. NW. of Newport Beach; 0.37 miles S. of Adams Ave.,1.5 miles W. of Fairview Ave., between Santa Ana River and the mesa, on E. side of river. Use: Irrigation. Casing: 12 inches. Gravel 169-178; 210-243; 278-286.	13253	15	*303	(m)	1/ 7/32			85	222	21	30		8	4	95
					656	1/26/32	50.6	0 40	89	[a]249	30	20	2	5	4	116

TABLE 11. WELLS IN LOWER SANTA ANA RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1262k-Q-15	Mr. Myers. NW. of Newport Beach; 1.65 miles W. of Fairview Ave., 500 feet N. of Wilson St., extended, between Santa Ana River and the mesa on E. side of river. Use: Irrigation. Casing: 16 inches.	13254A	8	300	655	1/26/32	106	1.12	93	[a]314	201	0	4	10	3	229
C-1263-Q-14	T. S. Ban (lessee). E. of Huntington Beach; 0.25 miles S. of Atlanta Ave., 400 feet E. of Newland St. Well point on surface water, at recorder well C-1263a-Q-14. Use: Test well. Casing: 1½ inches.	13224C	2	(x)	643	1/19/32	740				2,432					
C-1263a-Q-14	T. S. Ban (lessee). E. of Huntington Beach; 400 feet E. of Pennsylvania Ave. drainage ditch, 0.25 miles S. of Atlanta Ave. Use: Not used. Casing: 12 inches. D. W. R. Lab. Nos. 273 and 459 were sampled 5 feet below top of casing, or just under water surface, and D. W. R. Lab. No. 458 was sampled 100 feet below top of casing. O. C. F. C. D. has automatic water level recorder on well.	13224A	2	(x)	(d)	1/26/31				[a]175	16					
					(d)	3/ 2/31				[a]177	12					
					(d)	3/20/31				[a]171	43					
					(d)	6/ 8/31				[a]105	59					
					(d)	7/25/31				[a]114	60					
					(d)	8/22/31				117	59					
					273	9/ 3/31	40.3	0.03	64	107	59	21	1	14	8	56
					458	10/19/31	41.1	0.25	48	177	46	7	0	29	11	49
					459	10/19/31	39.1	0.54	67	107	60	14	0	14	7	60
					(d)	11/ 6/30				[a]148	18					
C-1263b-Q-14	T. S. Ban (lessee). E. of Huntington Beach; 0.2 miles S. of Atlanta Ave., 900 feet E. of Newland St. (Pennsylvania Ave.) drainage ditch, 500 feet E. of C-1263a-Q-14. Use: Not used, formerly irrigation. Casing: 10 inches.	13224B	3	(x)	(d)	11/ 6/30				[a]203	25					
					(d)	6/ 8/31				[a]128	18					
					(d)	6/17/31				[a]94	16					
					(d)	7/25/31				[a]121	25					
C-1265-Q-15	Mr. Gisler. E. of Huntington Beach; 0.15 miles S. of Atlanta Ave., 0.25 miles W. of Bushard St. Use: Not used, formerly irrigation and domestic. Casing: 6 inches.	13234A	7	x200	(d)	11/ 6/30				182	20					
					(d)	2/ 2/31				[a]208	18					
					(d)	3/ 3/31				[a]199	17					
					(d)	3/20/31				[a]193	18					
					(d)	6/ 8/31				110	27					
					(d)	7/25/31				[a]119	29					
C-1266-Q-15	Laguna Beach County Water District, Well 2. E. of Huntington Beach; 100 feet W. of Bushard St., 800 feet S. of Atlanta Ave. Use: Municipal. Casing: 16 inches. Perforated 98-143.	13234B	8	*x190	(d)	11/ 7/30				198	21					
					(d)	2/ 2/31				[a]216	12					
					(d)	2/25/31				[a]203	14					
					(d)	3/18/31				[a]215	16					
					39	6/ 3/31	41.3		42	[a]204	16	24	0	39	10	47
					(d)	6/ 6/31				[a]225	50					
					(d)	6/17/31				[a]221	18					
					(d)	6/23/31				[a]221	18					
					(d)	7/24/31				[a]220	39					
					(d)	8/22/31				[a]225	18					
266n-Q-15	Laguna Beach County Water District, Well 1. E. of Huntington Beach; 1,100 feet S. of Atlanta Ave., 100 feet W. of Bushard St., 300 feet S. of C-1266-Q-15. Use: Municipal. Casing: 16 inches. Perforated 100-163.	13234K	8	*410	42	6/13/31	41.0		42	[a]201	16	27	0	40	9	45
					677	1/28/32	40.4	0.13		214	14					
C-1268a-Q-15	The Irvine Co., Santa Ana River Well 2. E. of Huntington Beach; 875 feet E. of Bushard St., 1,690 feet S. of Atlanta Ave. Middle well of three. Use: Not used. Casing: 18 inches. Perforated 100-125.	13244B	7	*x155	(k)	Dec., 1927			62	225	82	23		32	10	[c]92
					(d)	6/ 8/31				[a]214	49					
					(d)	6/20/31				[a]212	46					
C-1268b-Q-15	The Irvine Co., Santa Ana River Well 1. E. of Huntington Beach; 950 feet E. of Bushard St., 1,390 feet S. of Atlanta Ave. North well of three. Use: Not used. Casing: 18 inches. Perforated 95-120.	13244C	7	*x262	(k)	Oct., 1927			44	222	43	17		40	12	[c]53
C-1268c-Q-15	City of Newport Beach, Newport Beach Well 4. E. of Huntington Beach; 85 feet E. of Bushard St., 265 feet S. of road which is 0.5 miles S. of Atlanta Ave. Use: Municipal. Casing: 18 inches. Perforated 100-200. Water has H_2S odor.	13235C	6	*x234	(d)	11/15/30				[a]205	26					
					(d)	2/ 2/31				[a]224	30					
					(d)	3/ 2/31				[a]214	25					
					(d)	3/18/31				[a]215	29					
					(f)	4/21/31				207	22	[b]20				
					30	6/ 6/31	45.0		45	207	32	21	0	40	10	52
					(d)	6/17/31				[a]177	35					
					(d)	7/24/31				[a]212	50					
					(d)	8/27/31				[a]228	45					
					322	9/18/31	57.8	0.13	40	[a]204	55	21	0	46	12	50
C-1268d-Q-15	Newport Mesa Irrigation District, Well 4. E. of Huntington Beach; 0.3 miles E. of Bushard St., 150 feet S. of road which is 0.5 miles S. of Atlanta Ave. Use: Irrigation and domestic. Casing: 18 inches. Perforated 145-245.	13245	0	*x270	(d)	11/ 5/30				246	150					
					(d)	12/ 6/30				244	184					
					41	6/13/31	110.3		63	256	229	1	0	48	20	157
					(d)	6/20/31				[a]254	220					
					(d)	7/24/30				[a]272	232					
					(d)	8/22/31				[a]275	244					
					325	9/18/31	117	0.67		259	250					

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1268g-Q-15	City of Newport Beach, Well 6. E. of Huntington Beach; 220 feet E. of Bushard St., 265 feet S. of road which is 0.5 miles S. of Atlanta Ave. Use: Municipal. Casing: 18 inches. Perforated 100-142.	13235	6	*330	(f)	4/21/31				214	66	[b]0				
C-1268i-Q-15	City of Newport Beach, Well 5. E. of Huntington Beach; 220 feet E. of Bushard St., 415 feet S. of road which is 0.5 miles S. of Atlanta Ave. Use: Municipal. Casing: 18 inches. Perforated 190-260; 276-306; 312-330.	13235B	6	*336	(f)	4/21/31				229	48	[b]18				
					678	1/28/32	57.6	0.26		[a]229	73					
C-1269-Q-15	Fairview Farms. E. of Huntington Beach; 0.75 miles E. of Bushard St., 150 feet N. of road which is 0.5 miles S. of Atlanta Ave., 300 feet E. of east levee of Santa Ana River. Use: Not used. Casing: 16 inches. Sampled from surface of standing water.	13254	8	(x)	(d)	11/25/30				[a]511	695					
					(d)	2/25/31				[a]507	659					
					(d)	3/18/31				[a]536	670					
					(d)	6/ 6/31				[a]564	678					
					(d)	6/18/31				[a]391	660					
					(d)	7/24/31				[a]484	670					
					680	1/28/32	275	1.29		[a]460	682					
C-1269b-Q-15	Fairview Farms, Well 2. E. of Huntington Beach; 1,950 feet E. of Bushard St., 10 feet S. of road which is 0.5 miles S. of Atlanta Ave., 50 feet W. of C-1269a-Q-15. 20 feet W. of pump house. Use: Irrigation and municipal. Casing: 12 inches.	13245H	7	290	43	6/13/31	826		74	250	142	2	0	27	10	146
					(d)	7/ 8/31				[a]247	139					
					(d)	7/27/31				[a]256	139					
					(d)	8/22/31				[a]274	104					
C-1270-Q-15	Fairview Farms, Well 3. E. of Huntington Beach; 1,830 feet E. of Bushard St., 75 feet S. of road which is 0.5 miles S. of Atlanta Ave. Use: Irrigation and municipal. Casing: 18 inches. Gravel 126-267.	13245A	7	*x270	(d)	11/ 5/30				247	162					
					(d)	11/25/30				244	156					
					(d)	12/ 6/30				247	146					
					(d)	3/ 2/31				235	164					
					(d)	3/18/31				[a]260	186					
					40	6/13/31	104.5		70	268	209	0	0	41	12	165
					(d)	6/18/31				[a]288	186					
					(d)	7/ 8/31				[a]207	203					
					(d)	7/27/31				[a]225	221					
					(d)	8/22/31				[a]283	232					
					323	9/18/31	112.0	0.81	71	265	234	3	0	44	12	183
C-1274-Q-14	Negro Colony, 1.3 miles N. of Talbert Road. S. of Huntington Beach; 1.3 miles W. of Bushard St., 100 feet S. of State Highway, on beach in sand, 900 feet W. of bridge. Use: Not used. Casing: 10 inches. Perforated 150-170. Sampled from surface of standing water.	13215	11	*x172	(d)	Jan., 1931				[a]335	11,661					
					(d)	3/ 3/31				[a]391	4,618					
					(d)	7/24/31				117	18,236					
C-1274b-Q-14	Globe Petroleum Co., Judd Well 1. SE. of Huntington Beach; 4,957 feet S. and 2,994 feet E. of NW. corner of Sec. 13, T. 6 S., R. 11 W., S. B. B. & M., 100 feet E. of Newland St., 100 feet N. of Banning Ave. Use: Not used. Casing: Old oil casing with nipple and 3-inch tee. Gravel 289-540; 664-691; 736-743; 750-787; 811-826. Sampled from surface of standing water.	13225A	4	*x4,980	(d)	6/ 6/31				[a]59	2,753					
					(d)	6/23/31				[a]48	3,145					
					(d)	7/25/31				61	3,508					
C-1274e-R-15	Test hole. SE. of Huntington Beach; 15 feet NW. of Bushard St., 200 feet SW. of turn in Bushard St., 1,500 feet from State (Coast) Highway. Use: None. Total acidity as $CaCO_3$= 1,560 ppm. H=31 ppm. Iron=5 ppm.	13236	3	11	778	3/ 4/32	4,980	2.94	81	0	18,194	5,658	0	955	646	9,863
C-1278q-Q-15	H. A. De Wolf. E. of Huntington Beach; 1,300 feet E. of Santa Ana River, 30 feet S. of dirt road which is 0.5 miles S. of Atlanta Ave. (road east of river curves to south). Use: Domestic and dairy. Casing: 12 inches.	13255A	10	x68	324	9/18/31	189	0.73	56	327	368	151	0	112	34	244

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by Orange County Flood Control District, Santa Ana, California.
[e] Analysis by Los Angeles County Flood Control District, Los Angeles.
[f] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[g] Information from H. M. Bergen, Brea, California.
[h] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[i] Analysis by Griffon-Hasson Laboratory, Los Angeles, and recalculated from compounds by H. M. Bergen.
[j] Analysis by Union Oil Co. of California.
[k] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[l] Analysis by Shell Oil Co. of California, obtained from owner.
[m] Analysis by City of Los Angeles, Biological Laboratory; W. A. Lynch, analyst.

940 10-33 500

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-240s-I-13	Harriet W. Strong Estate. S. of El Monte; 0.32 miles NW. of U. P. R. R., 0.31 miles SW. of Walnut Ave. Use: Irrigation. Casing: 14 inches.	2948A	207	x	(d)	9/18/24			15		15	28		23	18	c11
C-801b-I-13	City of Whittier, Well 5. NW. of Whittier; 162 feet SW. of Whittier Blvd., 666 feet NW. of Guirado St. Use: Municipal. Casing: 26 inches. Perforated 45-70; 135-142; 150-162; 315-330; 344-356; 362-370; 373-380; 585-590; 628-637.	1620E	172	*x680	(d)	4/12/28			21		18	52		62	11	25
C-801d-I-13	City of Whittier, Well 6. NW. of Whittier; 639 feet NW. of Guirado St., 800 feet SW. of Whittier Blvd., 700 feet SW. of Well 5. Use: Municipal. Casing: 20 inches. Perforated 6-641.	1620F	172	*x541	(d)	4/12/28			22		14	48		55	10	c23
					(e)	7/13/31				238	20	b37				
					127	7/14/31	50 9		24	232	16	58	1	65	14	31
C-804a-I 13	City of Whittier, Well 7. NW. of Whittier; 2,000 feet N. of Beverly Blvd., 400 feet W. of San Gabriel River. Use: Municipal. Casing: 18 inches. Perforated 55-100; 136-160; 256-265; 687-694; 716-722.	2938	187	*x1,000	(d)	12/ 9/29			35		11	28		38	6	c30
					(d)	12/30/29			20		9	31		53	9	c19
					(e)	7/13/31				217	17	b73				
					125	7/14/31	45 9		19	210	7	60	1	63	13	23
C-804t-I-13	Pico County Water District, Well 1. Pico; 50 feet W. of Church St., 1,000 feet N. of Whittier Blvd. Use: Municipal. Casing: 12 inches. Perforated 40-76; 221-226; 243-248; 339-347; 354-360; 405-413.	2929D	181	*x435	(d)	1/22/30			16		11	44		59	11	c17
					124	7/14/31	41.5		20	214	6	34	1	55	12	22
					(f)	11/25/31				185	6					
C-804aa-I-13	City of Whittier, Well 8. NW. of Whittier; 300 feet N. of Strong Ave., extended, 0.09 mile N. of Well C-804a-I-13. Use: Municipal. Casing: 24 inches.	2938A	188	x302	(e)	7/13/31				212	14	b48				
					126	7/14/31	38 4		18	195	5	31	1	53	11	18
C-805z 1 12	S. H. Laughlin. E. of Montebello; 400 feet N. of Beverly Blvd., 100 feet W. of Lexington Road. Use: Domestic. Casing: 2 inches.	2918K	184	40	1040	6/ 6/32	54 6	0 17	34	223	36	40	6	54	12	45
C-814f-I-13	Mrs. Mary Phelan. NW. of Whittier; 1,690 feet S. of Whittier Blvd., 2,400 feet W. of Norwalk Road. Use: Irrigation. Casing: 18 inches. Perforated 158-167; 176-251; 350-362; 473-489.	1620R	170	*x509	62	6/17/31	51 6		23	250	13	38	2	62	15	29
C-815o I 13	Z. Brown. NW. of Whittier; 700 feet W. of Passons Blvd., 125 feet N. of Dunlap Crossing Road. Use: Domestic. Casing: 5 inches.	1610F	171	x50	(f)	4/21/32				325	28					
					1677	1/10/33	47 4	0 08	19	232	13	38	5	63	14	23
C-816v J-13	Joseph Blacker. Los Nietos; 50 feet N. of P. E. Ry., 400 feet W. of Los Nietos Road. Use: Domestic. Casing: 5 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1623D	150	100	(f)	6/29/31				411	51					
					(f)	11/ 9/31				429	60					
					558	11/ 9/31	117			464	55					
					1663	12/30/32	71 1	0 13	20	314	27	88	3	88	24	37
C-817a-J-12	A. T. & S. F. Ry., Rivera; 120 feet NW. of Topeka St., 95 feet NE. of A. T. & S. F. Ry., back of A. T. & S. F. Ry. station. Use: Domestic. Casing: 12 inches.	1602C	155	x148	128	7/14/31	77.9		19	324	23	129	4	107	22	40
C-818d-J-13	Pete G. Martinez. N. of Santa Fe Springs; 95 feet NW. of Santa Fe Springs Road, 2,165 feet NE. of Los Nietos Road. Use: Domestic. Casing: 5 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1644C	143	x81	(f)	7/ 1/31				378	121					
					(f)	11/ 9/31				341	117					
					557	11/ 9/31	144			418	119					
					(f)	4/21/32				380	106					
					1678	1/ 6/33	137	0 21	29	396	98	273	18	153	41	105
C-819-J-13	H. F. Reinicts. S. of Whittier; 50 feet S. of Mulberry Ave., 300 feet E. of Laurel Ave. Open casing on N. side of tank house. Use: Not used. Casing: 8 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1664	150	x50	(g)	Oct., 1918			33	397	236	1,011	37	324	81	262
					(f)	6/29/31				326	335					
					(f)	11/ 9/31				397	305					
					540	11/ 9/31	320			589	318					
					(f)	4/27/32				380	312					
C-819a K 13	J. W. Neimier. E. of Santa Fe Springs; 40 feet W. of Victoria Ave., 0.43 mile NE. of Telegraph Road (Los Nietos Road). Use: Irrigation. Perforated 28-48.	1666	148	*75	231	8/13/31	178 4		39	467	211	256	22	144	60	7[illegible]
C-819b-K-13	Colima Tract Water Co., Well 1. E. of Santa Fe Springs; 0.35 mile SW. of Mulberry Drive, 20 feet SE. of Gunn Road. Use: Irrigation. Casing: 18 inches. Gravel 23-57; 104-112; 134-145.	1665	145	*x161	(g)	July, 1931			46	340	124	55		106	70	2 0
					1150	7/ 7/32	185	0 42	38	406	178	390	4	149	67	1
C-819c-K-13	Colima Tract Water Co., Well 6. E. of Santa Fe Springs; 0.13 mile NW. of Gunn Ave., 10 feet NE. of Colima Ave., 0.45 mile SW. of Mulberry Drive. Use: Irrigation. Casing: 14 inches. Perforated 170-173; 180-184; 225-226; 239-241; 286-290; 298-305; 308-310; 316-319; 338-342; 344-347; 352-355.	1665A	143	*x379	(g)	July, 1931			41	344	232	1,070		264	120	c375

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-819d-J-13	Mr. Johnson. S. of Whittier; 90 feet SW. of Lambert Road, 150 feet NW. of Walnut Ave. Use: Irrigation.	1674	183	x	(f)	7/17/31				254	163					
C-819i-K-13	Victor Reis. E. of Santa Fe Springs; 0.46 mile SW. of Mulberry Drive, 0.13 mile SE. of Gunn Road, 30 feet SW. of Colima Ave. Use: Irrigation. Casing: 12 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1665G	152	x150	(f)	7/1/31				342	192					
					(f)	11/9/31				312	185					
					561	11/9/31	303			324	195					
					(f)	4/27/32				342	192					
C-819k-K-13	J. P. Thompson. E. of Santa Fe Springs; 0.32 mile SW. of Mulberry Drive, 40 feet NW. of Mills Ave. Use: Domestic. Casing: 10 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1665H	146	108	(f)	7/1/31				349	209					
					(f)	11/9/31				319	170					
					536	11/9/31	234			369	180					
					(f)	4/27/32				395	185					
C-819x-K-13	J. P. Thompson (Paul Castro, lessee). E. of Santa Fe Springs; 0.45 mile SW. of Mulberry Drive, 80 feet NW. of Mills Ave., 80 feet NE. of Colima Ave., 70 feet SE. of C-819j-K-13. Use: Domestic. Casing: 16 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1665M	146	450	(f)	7/1/31				392	60					
					(f)	11/9/31				366	57					
					559	11/9/31	95.0			381	55					
					(f)	4/27/32				376	71					
C-820j-K-13	Victor Reis. E. of Santa Fe Springs; 0.12 mile SW. of Mulberry Ave., 75 feet NW. of Mills Ave., 300 feet NE. of Broadway. Use: Irrigation. Casing: 14 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1675A	153		(f)	7/1/31				242	160					
					(f)	11/9/31				242	153					
					556	11/9/31	131			253	151					
					(f)	4/27/32				268	163					
					1680	1/9/33	136	0.2	28	247	158	257	23	125	52	94
C-821e-J-13	Colima Tract Water Co., Well 10. E. of Santa Fe Springs; 0.16 mile NW. of Painter Ave., 15 feet N. of Barton Road. Use: Irrigation. Gravel 40-58; 88-102; 131-134; 535-545; 558-562; 567-570; 590-594; 604-624.	1645H	157	*x648	(e)	July, 1931			40	325	114	336		104	50	140
C-822i-J-13	R. S. Savery. SW. of Whittier; 100 feet W. of P. E. Ry., 400 feet S. of Center St. Use: Industrial. Casing: 8 inches. Perforated 44-59; 197-206.	1633	154	*217	228	8/13/31	129.5		26	400	50	313	18	160	40	89
C-822y-K-13	Barnhart-Morrow Lease. W. of Santa Fe Springs; 0.25 mile N. of Little Lake Road, 50 feet W. of Norwalk Blvd. (Puente-Mills Road). Use: Industrial. Casing: 6 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1626P	140		(f)	7/17/31				399	300					
					(f)	11/9/31				380	288					
					537	11/9/31	167			399	300					
					(f)	4/27/32				400	259					
C-824y-K-13	A. Fraser. N. of Norwalk; 0.12 mile N. of Clark Ave. (Little Lake Road), 40 feet E. of Pioneer Blvd. (Shamrock Road). Use: Domestic.	1616M	124	200	1335	9/8/32	242	1.25	21	314	600	79	0	268	63	115
C-825-J-12	A. O. Houghton. W. of Santa Fe Springs; 80 feet S. of Anaheim-Telegraph Road, 150 feet E. of Orr and Day Road, N. of tank house. Use: Domestic. Casing: 10 inches.	1615C	136	x48	(f)	6/29/31				269	14					
					(f)	4/21/32				251	18					
					1662	12/28/32	51.3	0.07	21	244	12	54	1	63	16	28
C-825r-K-12	Mr. Hathaway. N. of Norwalk; 100 feet S. of Little Lake Road, 575 feet E. of Day and Orr Road. Use: Irrigation. L. A. C. F. C. D. and D. W. R. analyses are from same sample.	1616D	124	200	(f)	10/15/30				273	17					
					(f)	6/29/31				269	16					
					(f)	11/9/31				268	20					
					531	11/9/31	55.6			281	16					
					863	3/23/32	56.1	0.09	24	281	14	51	2	70	16	34
C-825y-K-13	Mrs. K. Carter. N. of Norwalk; 0.12 mile W. of Pioneer Blvd. (Shamrock Road), 0.15 mile N. of Little Lake Road. Use: Irrigation. Casing: 12 inches. Lab. No. 1344 was analyzed at same time as No. 1334 and was kept in glass container stoppered with cork.	1616L	127	212	1344	3/15/32	102	0.49		302	144					
					1334	9/8/32	85.5	0.35	21	299	98	59	2	103	23	44
C-826b-J-12	Walnut Irrigation District, Well 1. Rivera; 25 feet E. of Passons Blvd., 0.5 mile N. of Telegraph Road, in brick pump house. Use: Irrigation. Casing: 18 inches. Perforated 233-278; 337-365; 383-430.	1603I	152	*455	129	7/14/31	42.4		27	217	13	35	2	53	13	32
C-828f-J-12	Downey County Water District, Well 2. Downey; 100 feet NW. of La Reina St., 490 feet NE. of 7th St. Use: Municipal. Casing: 16 inches.	1575B	124	x574	131	7/15/31	47.9		20	250	13	28	9	63	14	25
C-829a-J-11	Rio Hondo Country Club. NW. of Downey; 200 feet NW. of Old River School Road, 0.5 mile SW. of Clara St. (Hunt's Crossing Road). Use: Irrigation and domestic. Casing: 14 inches. Perforated 356-408.	1554B	118	*449	137	7/15/31	46.9		21	253	13	22	2	60	14	25
C-829j-J-11	L. W. Jordan. NW. of Downey; 125 feet N. of Clara St., 2,200 feet E. of Rio Hondo, 0.17 mile E. of Old River School Road. Use: Domestic. Casing: 8 inches.	1564	127	x90	1149	7/7/32	71.4	0.21	32	336	28	61	0	76	17	57

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-8/5m K 13	Earl Myers. S. of Santa Fe Springs; 300 feet S. of Lakeland Road, 500 feet E. of A. T. & S. F. Ry. Use: Domestic.	1646D	150		1340	9 8 32	68 4	0 24	72	305	66	10	0	23	10	115
C-852a-K-13	Mr. Pendleton, West Pendleton Well. N. of Norwalk; 110 feet S. of Leffingwell Road, 0.08 mile E. of Norwalk Blvd. Use: Irrigation. Casing: 12 inches.	1628F	102	*270	(g)	3 12 32			21	249	23	37		66	12	27
C-852d K 13	Norwalk State Hospital, Dairy Well. N. of Norwalk; 100 feet S. of Imperial Highway, extended, 275 feet E. of Butler Road. Use: Domestic and stock. Casing: 16 inches. Perforated 140-155. L. A. C. F. C. D. and D. W. R. analyses on 11 9 31 are from same sample.	1638	111	*249	(f)	10/15/30				251	55					
					(g)	3/11/31			44	235	52	3		44	10	55
					(f)	7/16/31				249	59					
					(f)	11/ 9/31				244	58					
					543	11 9 31	55 2			253	57					
					1668	12/10/32	56 4	0 10	28	250	27	51	Tr.	64	14	39
C-852e-K 13	Norwalk State Hospital, Well 5, "Garden Well." N. of Norwalk; 240 feet S. of Imperial Highway, 300 feet E. of Norwalk Blvd. Use: Irrigation. Casing: 16 inches. Gravel-packed well. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1628A	106	*215	(f)	10/15/30				411	62					
					(g)	3/12/31			23	354	59	107		108	25	52
					(f)	7/16/31				371	58					
					(f)	11/ 9/31				342	57					
					539	11/ 9/31	89 4			351	57					
					(f)	4/27/32				415	67					
					1330	9/ 7/32	91 5	0 12	26	360	59	106	7	105	26	60
					1666	12/30/32	71 6	0 12		293	46					
C-852f K-13	Los Angeles County Water District, Well 2. Norwalk; 150 feet SE. of Norwalk Blvd., 400 feet SW. of S. P. R. R., 20 feet W. and 20 feet N. of Well 1, on N. side of alley in center of block. Use: Municipal. Casing: 8 inches.	1629A	96	762	133	7 15/31	39 2		25	204	9	25	1	48	11	25
C-852g-K-13	E. G. Paddison (formerly John Paddison). N. of Norwalk; 1,290 feet W. of Norwalk Blvd., 630 feet N. of Imperial Highway. Use: Irrigation and domestic. Casing: 12 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1628E	108	330	(f)	10/15/30				328	59					
					(f)	6/29/31				322	51					
					(f)	11/ 9/31				413	90					
					533	11 9/31	111			430	92					
					(f)	4/27/32				413	128					
					1338	9/ 8/32	123	0 22	32	457	108	119	1	131	35	101
C-852k-K-13	Owner unknown. Norwalk; 162 feet NE. of S. P. R. R., 87 feet NE. of Norwalk-Clearwater Road, 200 feet E. of last bend in road into Norwalk. Use: Domestic. Casing: 5 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1639A	94	x	(f)	7/17/31				234	25					
					(f)	11/ 9/31				224	27					
					542	11/ 9/31	49 4			229	27					
					(f)	4/29/32				225	32					
					1669	1/ 3/33	52 4	0 10	24	232	28	38	Tr.	60	15	30
C-852m-K-13	Carl Doty. N. of Norwalk; 1,500 feet S. of Lakeland Road, 250 feet E. of Norwalk Blvd. Use: Domestic, but not drinking. Casing: 8 inches.	1627A	121	155	1342	9/10/32	335	1 73		457	870					
C-852n-K-13	Mr. Venable. NE. of Norwalk; 100 feet SE. of Leffingwell Road, 30 feet E. of Butler Road from north, extended at offset on Leffingwell Road. Use: Irrigation and domestic.	1638A	104		1339	9/ 8 32	60 6	0 15	35	262	57	17	Tr.	63	12	52
C-852o-K-13	Norwalk State Hospital, Well 4. N. of Norwalk; 525 feet E. of Norwalk Blvd., 50 feet N. of Leffingwell Road. Use: Domestic. Casing: 16 inches.	1628D	125	297	866	3/24/32	58 6	0 12	26	256	30	55	2	70	16	39
					1331	9/ 7/32	60 9	0 12		262	28					
C-852q-K-13	S. Murato, East Pendleton Well. NE. of Norwalk; 550 feet W. of Butler Road, 1,100 feet S. of Imperial Highway, 30 feet S. of Leffingwell Road. Use: Irrigation. Casing: 12 inches. Perforated 176-188.	1638C	100	*225	(g)	3/12/31			25	268	43	67		84	13	41
C-853e K-13	Norwalk State Hospital, Well 3. N. of Norwalk; 0.37 mile S. of Lakeland Road, 0.64 mile N. of Imperial Highway. 0.27 mile W. of Butler Road. Use: Irrigation. Casing: 16 inches. Gravel-packed well. L. A. C. F. C. D. and D. W. R. analyses on 11/9 31 are from same sample.	1637B	120	*220	(f)	10/15/30				310	217					
					(g)	3/12/31			25	332	246	105		154	40	84
					(f)	7/16/31				332	268					
					(f)	11/ 9/31				322	312					
					530	11/ 9/31	164			333	314					
					857	3 24 32	180	0 32	26	327	378	110	2	199	58	118
					(f)	4 27 32				332	346					
					978	5 13/32	179	0 33	22	342	366	111	2	194	56	94
					1027	6/ 1/32	174	0 28		345	348					
					1145	7/ 5/32	180	0 39		339	366					
					1269	8/ 8/32	186	0 43	23	345	380	105	2	198	56	101
					1329	9/ 7/32	188	0 41	21	342	390	106	1	221	56	99
					1361	9/ 8/32	189	0 58		345	387					
					1469	10 5/32	128	0 43	40	299	229	59	1	96	35	119
					1534	11 2/32	141	0 45	40	320	236	94	1	117	34	132
					1572	12 6/32	167	0 52		324	336					
					1667	1 4/33	230	0 45	19	336	543	93	0	259	75	101
					1745	2 3 33	224	0 42		332	529					

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-8-53f-K-13	Norwalk State Hospital, Well 6, Spencer Well. NE. of Norwalk; 1400 feet N. of Imperial Highway, 80 feet W. of Butler Road. Use: irrigation. Casing: 18 inches. Gravel-packed well. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1637E	125	*160	(f)	10/15/30	-------	------	------	290	103	------	-------	------	------	------
					(g)	3/12/31	------	29		303	98	44	-------	83	25	c58
					(f)	7/17/31	------	------		293	110	------	------	------	------	------
					(f)	11/9/31	------	------		281	112	------	------	------	------	------
					541	11/9/31	85.2	------		290	116	------	------	------	------	------
					1332	9/7/32	92.1	0.14	29	293	130	39	0	88	27	61
C-8-53j-K-13	J. E. Hathaway. N. of Norwalk; 700 feet E. of Pioneer Blvd. (Shamrock Road), 100 feet N. of Little Lake Road. Use: Irrigation. Casing: 8 inches. Perforated 352-364; plugged at 400 feet.	1626	132	*537	1336	9/8/32	122	0.32	------	314	208	------	------	------	------	------
C-8-53L-K-13	J. E. Hathaway. N. of Norwalk; 100 feet N. of Little Lake Road, 0.12 mile W. of Little Lake School, 700 feet E. of Pioneer Blvd. Use: Polluted by oil fields. Water is now pumped into well to clear the strata.	1626B	130	700	(f)	7/16/31	------	------		354	299	------	------	------	------	------
					(f)	7/17/31	------	------		359	298	------	------	------	------	------
C-8-53u-K-13	Norwalk State Hospital, Well 1-A. N. of Norwalk; 35 feet E. of end of R. R. spur, 20 feet S. of power house on Norwalk State Hospital grounds. Use: Domestic and irrigation. Casing: 12 inches. Perforated 655-670; 727-730; 960-980; 1005-1025. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample. L. A. Testing Lab. analysis on 10/15/30 was sampled at 100-foot depth, 10/17/30 at 200-foot depth, 10/20/30 at 357-foot depth, 10/22/30 at 300-foot depth, 10/23/30 at 387-foot depth, 10/28/30 at 534- 615- and 678-foot depths.	1637D	125	*1,025	(g)	10/15/30	------	------	29	309	137	114	-------	110	31	c76
					(g)	10/17/30	------	------	30	a353	122	107	-------	99	36	c82
					(g)	10/20/30	------	------	37	a342	243	105	------	131	33	c125
					(g)	10/22/30	------	------	31	a336	233	98	------	137	36	c100
					(g)	10/23/30	------	------	43	430	286	105	------	138	37	c170
					(g)	10/28/30	------	------	30	306	171	101	------	110	35	c83
					(g)	10/28/30	------	------	31	311	180	100	------	112	36	c86
					(g)	10/28/30	------	------	32	296	201	104	------	115	35	c94
					(g)	3/12/31	------	------	73	a301	80	91	------	31	11	c153
					(f)	7/16/31	------	------		312	78	------	------	------	------	------
					(f)	11/9/31	------	------		307	77	------	------	------	------	------
					538	11/9/31	91.3	------		320	77	------	------	------	------	------
					867	3/24/32	65.7	0.16	34	241	75	33	0	63	16	53
					1328	9/7/32	53.9	0.43	53	217	59	0	0	37	9	67
C-8-53w-K-13	Little Lake School District. SW. of Santa Fe Springs; 100 feet S. of Little Lake Road in school yard, 0.27 mile W. of Norwalk Blvd. Use: Irrigation, no domestic use, some trees and shrubbery dying. Casing: 6 inches.	1626O	130	96	(f)	6/29/31	------	------		356	537	------	------	------	------	------
					(f)	11/9/31	------	------		342	472	------	------	------	------	------
					532	11/9/31	209	------		357	481	------	------	------	------	------
					865	3/24/32	228	0.47	18	366	550	99	Tr.	276	71	96
					977	5/13/32	232	0.50	17	390	550	79	1	278	66	90
					1026	6/1/32	226	0.62		378	538	------	------	------	------	------
					1144	7/5/32	223	0.65		387	506	------	------	------	------	------
					1268	8/8/32	209	0.68	20	384	460	75	2	244	60	98
					1333	9/7/32	191	0.73	19	384	401	75	1	223	56	83
					1360	9/8/32	191	0.74		375	400	------	------	------	------	------
					1468	10/5/32	184	0.70		375	376	------	------	------	------	------
					1533	11/2/32	174	0.68		372	343	63	4	202	47	78
					1571	12/6/32	160	0.72		372	312	------	------	------	------	------
					1664	1/4/33	159	0.76	21	378	295	68	1	183	45	77
					1743	2/3/33	159	0.75		372	304	------	------	------	------	------
C-8-53x-K-13	Norwalk State Hospital, Well 2. N. of Norwalk; 75 feet W. and 100 feet N. of power house on hospital grounds, 0.25 mile E. of Norwalk Blvd., 0.75 mile N. of Imperial Highway. Use: Irrigation and domestic. Casing: 16 inches. Plugged to 360 feet. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1637C	125	1,100	(f)	10/15/30	------	------	------	310	78	------	------	------	------	------
					(g)	3/12/31	------	32		225	226	63	------	95	36	c84
					(f)	7/16/31	------	------	------	a340	92	------	------	------	------	------
					(f)	11/9/31	------	------	------	96	320	------	------	------	------	------
					535	11/9/31	118	------	------	101	322	------	------	------	------	------
C-8-53z-K-13	Oil Well Supply Co. N. of Norwalk; 250 feet W. of Norwalk Blvd., 300 feet S. of Lakeland Road. Use: Domestic, but not drinking. Casing: 12 inches.	1626S	129	226	1343	9/10/32	164	0.41	19	342	320	83	0	181	54	70
C-8-54m-K-13	Knute B. Norswing (formerly Mr. O'Connell). N. of Norwalk; 150 feet W. of Pioneer Blvd. (Shamrock Road), 2,000 feet S. of Lakeland Road. Use: Domestic and stock. Casing: 14 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1617E	116	x500	(f)	10/15/30	------	------	------	270	57	------	------	------	------	------
					(f)	6/29/31	------	------	------	261	98	------	------	------	------	------
					(f)	11/9/31	------	------	------	270	140	------	------	------	------	------
					534	11/9/31	95.0	------	------	281	140	------	------	------	------	------
					864	3/23/32	104	0.10	18	284	170	53	1	127	30	43
					1337	9/8/32	117	0.12	16	277	213	48	0	141	35	45
C-8-57b-L-13	Louis Riviera. Carmenita; 190 feet E. of Carmenita Ave., 200 feet N. of intersection of S. P. R. R. and Carmenita Ave. Use: Irrigation and domestic. Casing: 12 inches. Gravel 61-65; 91-102; 383-386; 389-403.	1050B	76	*500	23	6/4/31	47.0	------	40	214	34	19	0	48	10	49
C-8-58e-L-13	Ralph Nottingham. N. of Artesia; 0.25 mile E. of Pioneer Blvd., 60 feet S. of Center St. Use: Irrigation and domestic. Casing: 12 inches. Gravel 114-131.	1021	70	*300	20	6/4/31	60.5	------	23	275	25	61	Tr.	77	19	36
C-8-58g-L-13	Test Hole. N. of Artesia; on south line of Center St., 0.1 mile E. of Pioneer Blvd. Casing: none.	1021B	71	10	739	2/12/32	209	0.47	61	692	222	282	0	118	41	335

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-861f K 12	Joe Lewis. S. of Downey; 315 feet W. of Woodruff Ave., 580 feet N. of Foster Road. Use: Irrigation. Casing: 12 inches.	1588H	94	163	136	7/15/31	64 9		28	320	25	51	0	80	16	47
C-861h L 12	Jim Blythe, Well No. 1. NE. of Bellflower; 100 feet S. of Washington Blvd., extended east from turn in street, 600 feet E. of Woodruff Ave. to south. Use: Irrigation. Casing: 12 inches. Perforated 94 109; 132 140.	980B	82	*147	73	6/18/31	62 9		22	299	34	51	0	81	22	38
C-865g K-12	Downey County Water District, Well 1. Downey; 100 feet NE. of Davis St., 125 feet NW. of Dolan St. Use: Municipal. Casing: 16 inches. Perforated 345-365; 465-485; 536-551; 564 572.	1566A	115	*x608	130	7/15/31	45 8		23	247	13	25	3	61	13	28
C-872d K-11	Los Angeles County Farm, Well 7. SW. of Downey; 735 feet NE. of Imperial Highway, 70 feet NW. of Rives Ave. Use: Irrigation. Casing: 18 inches.	1547A	100	530	139	7/15/31	53 4		21	277	18	28	1	68	16	29
C-872f K 11	Los Angeles County Farm, Well 4. SW. of Downey; 1,740 feet SW. of Imperial Highway, 1,090 feet NW. of Rives Ave., extended in rear of boiler house at water tank tower. Use: Industrial. Casing: 12 inches. Perforated near 500; 593-647; 1325 1329.	1537C	93	*1,493	138	7/15/31	54 3		38	217	28	65	0	56	12	53
C-872m-K 11	Ruchti Bros. Packing Co. E. of Southgate; 100 feet W. of U. P. R. R., 0.25 mile N. of Imperial Highway (Norton Ave.). E. of entrance of Rio Hondo into Los Angeles River, in iron pump house at dairy.	1526A	96	x	1660	1/20/33	42 3	0 10	27	238	12	14	Tr.	47	15	29
C-874a K 11	J. A. Quill. SW. of Downey; 300 feet S. of Imperial Highway, 250 feet E. of Downey Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 409 423; 440-471; 480-491.	1557A	105	*501	140	7/15/31	47 6		21	253	14	29	4	62	13	25
C-877k L-11	Mr. Johnson. E. of Compton; 25 feet S. of Washington St., 200 feet E. of Los Angeles River Bridge. Use: Domestic. Casing: 8 inches.	910	67	x350	(1) 855	3/ 3/32 3/25/32	50 4	0 16	35	225 223	28 18	50	0	50	13	45
C-877l L-11	George Faulkner. E. of Compton; 3754 feet E. of Atlantic Ave., 200 feet S. of Washington Blvd., 70 feet W. of C-877g L-11, in back of house. Use: Municipal. Casing: 4 inches. Perforated 95-110.	910D	71	115	76	6/18/31	48 1		32	241	16	34	0	54	13	40
C-877n-L 11	Test hole. E. of Compton; at SE. corner of Orange St. and Center St. Use: None.	921E	67	10	736	2/11/32	98 5	0 16	18	613	21	61	0	130	41	52
C-885b-L-11	Montana Land Co., Well 11. S. of Clearwater; 100 feet W. of Cerritos Ave., 2200 feet S. of Artesia St., 30 feet S. of N. property line. Use: Irrigation. Casing: 12 inches. Perforated 925-939.	953A	58	*1,061	72	6/18/31	40 5		31	229	9	18	Tr.	49	15	38
C-885d-L 11	City of Long Beach, North Long Beach Well 4, Funderburk Well. S. of Clearwater; 500 feet E. of Paramount Blvd. (Ocean Ave.), 130 feet S. of Bush St., 900 feet S. of Artesia Ave. Use: Municipal.	942C	60	200	86 (1) (1) (1) (1) (1)	6/19/31 7/ 5/32 8/ 3/32 9/13/32 10/ 1/32 11/ 1/32	40 0		24 25 24 31 40 47	232 237 194 213 201 190	9 12 9 13 19 24	0 15 16 21 31 35	Tr.	53 55 53 49 44 40	11 8 7 7 6 5	25 26 23 31 41 50
C-886f L-11	A. Nugg. E. of Clearwater; 170 feet S. of Washington St., 670 feet E. of Cerritos Ave., 250 feet E. of C-886b-L-11. Use: Irrigation. Casing: 5 inches.	950A	80	172	77	6/18/31	44 6		24	229	13	30	0	56	13	29
C-886g-L-11	Test Hole. Bellflower; at SW. corner of Clark Ave. and Center St. Casing: None.	961A	71	14	740	2/12/32	46 3	0 15	21	259	13	23	0	57	16	25
C 887b-L-11	Montana Land Co., Well 8. S. of Bellflower; 2300 feet S. of Artesia Ave., 0.5 mile E. of Cerritos Ave., 50 feet W. of Clark Ave. Use: Irrigation. Casing: 26 inches. Perforated 778-790; 852-874.	963	62	*982	68	6/18/31	42 2		24	232	13	15	0	51	17	28
C-888f L 12	Mrs. Schufer. N. of Artesia; 0.15 mile S. of Apple St., 180 feet E. of Gridley Road. Use: Irrigation and domestic. Casing: 12 inches. Perforated 102-122.	1012	61	*131	19	6/ 4/31	52 1		25	262	18	42	0	67	15	36
C-890c-L 12	J. W. Smith. Artesia; 280 feet N. of Orange St., 470 feet E. of Gridley Road. Use: Irrigation and domestic. Casing: 12 inches. Perforated 167 171; 197 203; 203 224.	1013	58	*239	21	6/ 4/31	42 1		24	232	7	22	0	54	10	26

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-891d-L-13	Mr. Ludwick. NE. of Artesia; 1160 feet W. of Bloomfield Ave., 80 feet S. of Artesia Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 118-132; 150-160; 167-171.	1032	58	*186	18	6/ 4/31	52 8		25	262	21	38	0	65	16	35
C-893e-L-13	Test Hole. Carmenita; at NE. corner of Center St. and Marquardt Ave. Casing: None.	1061	66	6	737	2/12/31	238	1 02	87	1,028	297	144	0	32	22	525
C-894-L-13	D. E. Viega (formerly Clever Bros.). W. of Buena Park; 200 feet W. of Marquardt St., 400 feet N. of Artesia Ave., 20 feet E. of irrigation well. Use: Domestic. Casing: 11 inches.	1062	60	x98	859	3/24/32	47 9	0 10	41	217	28	38	0	42	12	48
C-895-L-14	J. E. S. Heath (formerly Leon Vandermalle). W. of Buena Park; 150 feet S. of Artesia Ave., 0.15 mile E. of Miller Road. Use: Domestic. Casing: 4 inches.	1072	57	x	860 (f)	3/24/32 3/30/32	44 9	0 10	35	217 227	13 20	41	0	43	14	41
C-897a-L-13	Albert Myers. E. of Artesia; 1,470 feet S. of Orange St., 1,170 feet N. of Orangethorpe Ave., 325 feet E. of Bloomfield Ave. Use: Irrigation and domestic. Casing: 12 inches. Gravel 150-153; 184-188; 267-277; 278-288.	1033A	50	*300	17	6/ 4/31	46 8		41	220	16	43	Tr.	47	9	50
C-897o-L-13	A. D. Durrand. E. of Artesia; 75 feet W. of Carmenita Ave., 125 feet N. of Orangethorpe Ave. Use: Domestic. Casing: 4 inches.	1054A	45	x271	764	3/ 2/32	44 9	0 12	33	226	16	37	Tr.	45	14	38
C-897p-L-13	Test Hole. E. of Artesia; at NE. corner of Orangethorpe Ave. and Carmenita Ave. Casing: None.	1054K	47	17	743	2/15/32	3,310	0 45	61	399	11,981	3,991	0	908	1,343	5,564
C-899a-M-13	B. F. Draper. SE. of Artesia; 700 feet S. of Anaheim St. (La Palma Ave.). 240 feet E. of Bloomfield Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 218-233; 298-305; 313-320.	1035	38	*325	25	6/ 4/31	45 1		38	220	18	37	Tr.	44	11	43
C-901d-M-12	Montana Land Co., Well 1. NE. of Signal Hill; 0.25 mile N. of Montana ranch office building, 1,500 feet E. of Somerset Ave. on N. side of road, 1.0 mile N. of Bixby Station Road. Use: Irrigation. Casing: 12 inches.	985	51		71	6/18/31	40 1		26	229	9	16	Tr.	49	12	28
C-901k-M-12	Test Hole. W. of Artesia; on S. line of Orangethorpe Ave., 200 feet E. of San Gabriel River. Casing: None.	994A	52	14	747	2/15/32	122	0.33	24	708	46	78	0	141	44	76
C-902j-M-11	Standard Oil Co., Hynes Well 1. S. of Clearwater; 250 feet W. of Downey Ave., 1,900 feet S. of South St. Use: Boiler feed and domestic. Casing: 15 inches. Perforated 319-323; 625-630.	944	48	*648	74	6/18/31	36 6		46	201	11	14	1	40	7	51
C-902k-M-11	Standard Oil Co., Hynes Well 2. S. of Clearwater; 100 feet W. of Downey Ave., 1,985 feet S. of South St. Use: Boiler feed and domestic. Gravel 1284-1349.	944A	48	*1,371	75	6/18/31	39 5		31	226	13	9	1	50	10	35
C-902m-M-11	Test Hole. S. of Clearwater; 0.1 mile E. of Downey Ave. on S. line of South St. Casing: None.	953C	53	17	746	2/15/32	55 6	0 17	36	277	23	41	0	58	14	54
C-905a-M-11	City of Signal Hill, Well 1. N. of Signal Hill; 30 feet W. of Gundry Ave., 300 feet S. of Wardlow Road. Use: Municipal. Casing: 24 inches.	928	76	555	(e)	5/18/31				215	26	[b]Tr.				
C-905c-M-11	City of Signal Hill, Well 3. N. of Signal Hill; 15 feet N. of 33rd St., half-way between Falcon and Walnut Avenues. Use: Municipal. Casing: 24 inches.	928B	72	500	(e)	5/18/31				193	26	[b]Tr.				
C-907h-M-12	Montana Land Co., Well 73. NE. of Signal Hill; 100 feet S. of Bixby Station Road at bend in road, 0.43 mile W. of Somerset Ave. Use: Irrigation. Casing: 4 inches. Perforated 256-270.	966	41	*270	69	6/18/31	35 1		48	183	13	16	Tr.	33	8	49
C-908f-M-12	Montana Land Co., Well 29. NE. of Signal Hill; 50 feet W. of road passing Llewellyn School, 0.5 mile W. of Somerset Ave., 2,000 feet N. of Bixby Station Road. Use: Irrigation. Casing: 12 inches. Gravel 301-322; 709-716.	986A	46	*1,027	70	6/18/31	38 2		30	207	9	16	0	45	10	30
C-908i-M-12	City of Long Beach, Commission Well 1. NE. of Signal Hill; 305 feet S. of Carson St. (Bixby Station Road), 1,233 feet W. of Palo Verde Ave. Use: Municipal. Casing: 26 inches. Perforated 1361-1378; 1402-1410; 1430-1478; 1560-1655. Samples on 7/31/31, 8/24/31, 9/10/31, and 10/28/31, are from depths of 246, 970, 1,120, and 1,600 feet, respectively, while drilling. Sample on 1/4/32 was during pumping test. Later samples are from operating well.	986C	45	*1,668	(i) (i) (i) (i) (i) (i) (i) (i)	7/31/31 8/24/31 9/10/31 10/28/31 1/ 4/32 7/ 5/32 8/ 3/32 11/ 1/32			51 32 44 94 93 33 83 37	170 212 162 202 200 214 223 199	27 12 9 46 48 12 38 12	20 12 14 0 Tr. 12 Tr. 14		31 48 29 5 5 46 14 48	5 5 4 Tr. 1 5 1 1	[c]47 [c]30 [c]32 [c]100 [c]99 [c]32 [c]90 [c]33

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10^5 at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-908j-M-12	City of Long Beach, Commission Well 2. NE. of Signal Hill; 79 feet E. of Palo Verde Ave., 272 feet S. of Carson St. (Bixby Station Road). Use: Municipal. Casing: 26 inches. Perforated 300-316; 364-394; 618-628. Samples on 8/10/31, 8/17/31, and 8/25/31 are from depths of 384, 626, and 850 feet, respectively, while drilling. Later samples are from operating well.	996	37	1,054	(j)	8/10/31			34	149	13	16		51	5	c31
					(j)	8/17/31			31	204	13	18		44	5	c36
					(j)	8/25/31			40	203	11	14		37	5	c37
					(j)	7/ 5/32			32	209	10	14		45	6	c30
					(j)	8/ 3/32			46	215	10	15		50	6	c26
					(j)	9/13/32			32	200	11	17		45	5	c29
					(j)	10/ 1/32			31	205	11	16		46	6	c28
					(j)	11/ 1/32			30	210	11	16		47	6	c28
C-909-N-13	J. P. Labourdette. S. of Artesia; 0.27 mile W. of Los Alamitos Blvd., 30 feet S. of Spring St., 50 feet W. of Los Angeles County Line at Spring St. Use: Domestic.	1029	22	x332	(h)	4/10/31				a203	14					
					(h)	6/19/31				a222	14					
					(h)	7/28/31				a201	14					
C-913h-O-12	Bixby Ranch. E. of Long Beach; 10 feet S. of 7th St. on E. side of Palo Verde St., extended, 0.85 mile E. of Hathaway Ave. Use: Irrigation. Casing: 14 inches.	492	24	x1020	(f)	11/26/30				322	17					
					(f)	6/23/31				328	18					
					529	11/11/31	41 6			198	16					
C-913p-N 12	Test Hole. E. of Long Beach; 500 feet N. of Anaheim St., 5 feet W. of Palo Verde Ave. Casing: None.	492C	65	10	772	3/ 3/32	440	1 44	69	604	967	473	0	202	52	736
C-914b-N-12	Bryant Ranch. E. of Long Beach; 0.45 mile N. of Anaheim St., 5,000 feet W. of Palo Verde Ave., back of ranch house. Use: Domestic. Casing: 12 inches.	471	36	x1,500	847	3/25/32	32 2	0 12	83	162	16	12	0	8	3	68
C-916e-N-11	City of Long Beach, Citizens Well 4. NE. of Signal Hill; 40 feet S. of Spring St., 1,680 feet E. of Newport Ave. Use: Municipal. Casing: 12 inches. Perforated 800-860.	958B	29	1,155	(p)	10/19/21			89	a207	17	2	Tr.	6	2	c82
C-916h-N-11	Test Hole. E. of Signal Hill; 100 feet E. of Cerritos Ave., 0.5 mile S. of Spring St. Casing: None.	959E	25	15	773	3/ 7/32	223	0 77	90	1,165	144	128	0	24	15	535
C-916i-N-12	Test Hole. NE. of Signal Hill; NW. corner of Spring St. and Somerset Ave. Casing: None.	978	24	11	769	3/ 2/32	51 3	0 17	45	235	41	30	0	40	12	57
C-926a-M-11	Montana Land Co., Well 19. N. of Signal Hill; 0.26 mile E. of Cherry Ave., 0.35 mile N. of Bixby Station Road, 50 feet S. of private road to Cerritos Gun Club. Use: Irrigation. Casing: 12 inches. Perforated 778-790; 852-874.	936E	68	*981	1151	7/ 7/32	37 7	0 19	84	195	27	0	0	10	2	78
C-929j-M-10	Test Hole. N. of Long Beach; SW. corner of South St. and Dairy Ave., 0.4 mile W. of Atlantic Blvd. Casing: None.	903	50	15	745	2/15/32	62 6	0 17	38	284	25	63	0	63	16	63
C-930c-L-11	Carson Estate. N. of Long Beach; 75 feet S. of Artesia St., 300 feet W. of Atlantic Blvd. Use: Domestic and irrigation.	912	57	350	856	3/25/32	54 8	0 14	36	223	25	69	0	59	11	49
C-932a-L-11	City of Long Beach. North Long Beach Well 1. N. of Long Beach; 185 feet E. of Orange Ave., 2,400 feet S. of Artesia Ave., S. of Poppy St. Use: Municipal. Casing: 16 inches. Perforated 314-324; 372-413; 790-820; 852-870; 966-980.	923	55	x1,000	83	6/19/31	47 3		47	192	30	42	0	39	9	55
					(j)	7/ 5/32			53	184	28	30		35	4	c54
					(j)	8/ 3/32			52	181	27	35		35	5	c53
					(j)	9/13/32			51	186	28	41		39	5	c56
					(j)	10/ 1/32			53	160	27	35		35	4	c54
					(j)	11/ 1/32			54	179	26	35		34	4	c54
C-934b-M-10	City of Long Beach. North Long Beach Well 3. N. of Long Beach; 95 feet N. of Market St., 90 feet W. of Dairy Ave. Use: Municipal. Casing: 16 inches. Perforated 385-439.	904	48	x467	85	6/19/31	46 8		63	171	23	59	Tr.	28	6	74
					(j)	7/ 5/32			63	169	24	57		29	3	c68
					(j)	8/ 3/32			65	166	26	59		29	3	c70
					(j)	9/13/32			61	184	25	58		35	2	c68
					(j)	10/ 1/32			65	165	25	57		28	2	c69
					(j)	11/ 1/32			66	163	25	58		28	2	c69
C-936c-M-11	City of Long Beach, Development Well 3. N. of Signal Hill; 710 feet S. of Wardlow St., 1,395 feet E. of Cherry Ave. In Municipal Airport. Use: Municipal. Casing: 26 inches. Perforated 153-190; 286-300; 315-330; 390-602.	938B	51	*752	95	6/19/31	33 3		55	171	7	15	1	28	4	48
					(j)	7/ 5/32			55	168	16	7		27	2	c42
					(j)	8/ 3/32			54	170	14	13		27	3	c43
					(j)	9/13/32			51	168	13	1		27	2	c37
					(j)	10/ 1/32			58	161	14	14		27	1	c44
					(j)	11/ 1/32			55	170	13	14		27	2	c43
C-936f-M-11	City of Long Beach, Development Well 6. N. of Signal Hill; 90 feet S. of Wardlow St., 166 feet E. of Walnut Ave. Use: Municipal. Casing: 26 inches. Perforated 287-305; 540-615.	928G	66	*x915	97	6/19/31	34		69	168	14	4	1	20	3	62
					(j)	7/ 5/32			86	194	27	1		10	1	c79
					(j)	8/ 3/32			86	199	25	1		10	1	c79
					(j)	9/13/32			86	197	24	Tr.		10	1	c77
					(j)	10/ 1/32			86	200	24	1		10	1	c78
					(j)	11/ 1/32			86	188	25	1		9	1	c75

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-936g-M-11	City of Long Beach, Development Well 7. N. of Signal Hill; 90 feet S. of Wardlow St., 235 feet W. of Cherry Ave. Use: Municipal. Casing: 26 inches. Perforated 395-570.	938C	59	*x650	98	6/19/31	37.1	..	86	195	21	3	0	10	1	83
					(i)	7/ 5/32	..		87	181	28	1		8	1	[c]76
					(i)	8/ 3/32	...	...	85	192	26	1		11	1	[c]76
					(i)	9/13/32	...	...	86	189	24	Tr.		9	1	[c]75
					(i)	10/ 1/32	...		87	192	25	Tr.		9	1	[c]77
					(i)	11/ 1/32	...	...	85	196	14	1		9	1	[c]71
C-936i-N-11	City of Long Beach, Development Well 1. N. of Signal Hill; 940 feet S. of Wardlow St., 905 feet E. of Cherry Ave., in Municipal Airport. Use: Not used (formerly municipal). Casing: 12 inches. Gravel 295-359; 877-897; 959-1017.	938	50	*1,017	(p)	10/19/21			77	151	17	6	Tr.	12	2	[c]59
					(i)	9/ 8/25		..	81	170	30	0	...	14	0	[c]67
C-936k-M-11	City of Long Beach, Development Well 4. N. of Signal Hill; 80 feet S. of Wardlow St., 2,560 feet E. of Cherry Ave., in Municipal Airport. Use: Municipal. Casing: 26 inches. Perforated 345-357; 420-500; 707-720.	948	46	*1,016	(i)	7/ 5/32			83	158	30	Tr.	...	11	1	[c]66
					(i)	10/ 1/32			91	205	22	1	..	7	1	[c]84
					(i)	11/ 1/32			83	192	21	5		12	1	[c]73
C-936l-N-11	City of Long Beach, Development Well 5. N. of Signal Hill; 1,267 feet S. of Wardlow St., 2,560 feet E. of Cherry Ave., in Municipal Airport. Use: Municipal. Casing: 26 inches. Perforated 400-590; 662-740; 942-972.	948A	47	*1,004	96	6/19/31	33.1		81	165	21	1	Tr.	10	3	72
					(i)	8/ 3/32			71	231	23	1		25	1	[c]72
					(i)	9/13/32	...		90	211	21	13	...	8	1	90
C-936m-M-11	City of Long Beach, Development Well 8. N. of Signal Hill; 90 feet S. of Wardlow St., 467 feet E. of Cherry Ave. Use: Municipal. Casing: 26 inches. Perforated 375-550.	938E	49	*x662	(i)	7/ 5/32	...	..	88	179	28	2		8	1	[c]76
					(i)	8/ 3/32	...		84	178	26	1	..	11	1	[c]72
					(i)	10/ 1/32	...	...	47	172	12	14	..	31	3	[c]38
					(i)	11/ 1/32	..	...	85	175	25	1		9	1	[c]70
C-937a-N-11	City of Long Beach, Citizens Well 1. NE. of Signal Hill; 425 feet S. of Spring St., 320 feet E. of Newport Ave. Use: Municipal. Casing: 12 inches.	959	33	*x420	(p)	10/19/21	...	..	52	164	12	13	1	22	3	[c]47
					87	6/19/31	32.3	...	60	168	11	16	0	25	7	47
C-937e-N-11	City of Long Beach, Citizens Well 5. NE. of Signal Hill; 1,050 feet S. of Spring St., 370 feet E. of Newport Ave. Use: Municipal. Casing: 26 inches. Perforated 208-224; 300-330; 340-350; 368-408; 420-610.	959A	38	*x672	88	6/19/31	31.9	...	60	165	14	10	0	20	6	52
					(i)	7/ 5/32	...	..	70	160	18	5		17	1	[c]52
					(i)	8/ 3/32	...	.	65	160	15	13		21	2	[c]49
					(i)	9/13/32	...		53	154	14	4	..	25	2	[c]37
					(i)	10/ 1/32	...	...	80	154	22	6	...	12	1	[c]60
					(i)	11/ 1/32	..	...	88	143	24	5	..	7	1	[c]63
C-937f-N-11	City of Long Beach, Citizens Well 6. NE. of Signal Hill; 520 feet S. of Spring St., 1,010 feet E. of Newport Ave. Use: Municipal. Casing: 26 inches. Perforated 467-514; 560-600; 755-765.	959B	33	*x1,422	(i)	8/ 3/32	...	.	80	147	27	3		11	1	[c]60
					(i)	9/13/32	.	..	79	149	25	13	..	13	1	[c]62
					(i)	10/ 1/32	...	.	81	150	25	6		11	1	[c]61
					(i)	11/ 1/32	...	.	77	153	23	10		13	1	[c]60
C-937g-N-11	City of Long Beach, Citizens Well 7. NE. of Signal Hill; 40 feet S. of Spring St., 80 feet E. of Newport Ave. Use: Municipal. Casing: 26 inches. Perforated 725-776; 874-885; 912-934; 952-962.	948C	36	*1,105	89	6/19/31	39.0	..	88	220	20	2	0	7	2	91
					(i)	7/ 5/32			90	213	24	Tr.	0	7	1	[c]87
					(i)	8/ 3/32	.	.	77	187	21	6		15	2	[c]67
					(i)	9/13/32	...	...	91	207	21	3		6	1	[c]85
					(i)	10/ 1/32		.	91	211	20	Tr.		6	1	[c]84
					(i)	11/ 1/32	.		59	189	15	12		28	2	[c]51
C-938b-N-11	City of Long Beach, Alamitos Well 2. E. of Signal Hill; 1,265 feet of Cerritos Ave., 53 feet N. of Stearns St., in reservoir 20 feet W. of Alamitos Well 1. Use: Municipal. Casing: 12 inches. Gravel 137-190.	460L	23	*x273	(p)	10/19/21			77	158	12	22	1	13	2	60
					90	6/19/31	35.8		79	[a]177	16	21	0	12	3	76
C-938d-N-11	City of Long Beach, Alamitos Well 6. E. of Signal Hill; 1,940 feet E. of Cerritos Ave., 660 feet N. of Stearns St. Use: Municipal. Casing: 12 inches. Gravel 380-420; 460-480; 583-610; 825-850; 860-937.	460G	22	*949	91	6/19/31	36.9		84	[a]195	14	11	1	8	4	85
C-938f-N-11	City of Long Beach, Alamitos Well 8. E. of Signal Hill; 1,345 feet E. of Cerritos Ave., 695 feet N. of Stearns St. Use: Municipal. Casing: 26 inches. Perforated 804-915.	460C	24	*x982	92	6/19/31	39.7		89	[a]225	16	5	Tr.	6	2	98
					(i)	7/ 5/32			92	214	22	Tr.		6	1	[c]88
					(i)	8/ 3/32	...		93	215	22	1		5	Tr.	[c]88
					(i)	9/13/32		.	91	213	20	3		7	1	[c]85
					(i)	11/ 1/32	...	.	92	222	24	1	.	6	1	[c]92
C-938g-N-11	City of Long Beach, Alamitos Well 9. E. of Signal Hill; 1,380 feet E. of Cerritos Ave., 1,230 feet N. of Stearns St. Use: Municipal. Casing: 26 inches. Perforated 768-774; 804-936; 1086-1148.	460A	23	*x1,184	93	6/19/31	40.3	.	87	226	16	4	Tr.	7	3	96
					(i)	7/ 5/32	...		82	207	19	2	..	12	1	[c]75
					(i)	8/ 3/32	...		71	188	13	13		19	2	[c]61
					(i)	9/13/32	.		91	209	20	1		6	1	[c]84
					(i)	11/ 1/32			92	214	23	1		5	1	[c]89
C-938i-N-11	City of Long Beach, Alamitos Well 11. E. of Signal Hill; 1,640 feet E. of Cerritos Ave., 537 feet N. of Stearns St. Use: Municipal. Casing: 26 inches. Perforated 170-190; 444-468; 480-494.	460F	23	*x500	94	6/19/31	33.6		82	165	16	9	Tr.	10	2	70
					(i)	7/ 5/32			84	166	24	4		10	1	[c]68
					(i)	8/ 3/32			84	151	21	7		9	1	[c]62
					(i)	9/13/32	..		85	166	22	5		9	1	[c]68
					(i)	11/ 1/32			76	162	19	12		14	1	[c]60

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-938j-N-11	City of Long Beach, Alamitos Well 12. E. of Signal Hill; 1,500 feet E. of Cerritos Ave., 960 feet N. of Stearns St. Use: Municipal. Casing: 26 inches. Perforated 162-180; 197-210; 324-330.	460E	23	*500	(i)	7/ 5/32			84	156	24	5		10	1	[c]64
					(i)	8/ 3/32			81	141	18	26		10	1	[c]63
					(i)	9/13/32			85	151	23	9		9	1	[c]65
					(i)	11/ 1/32			87	177	23	6		7	1	[c]73
C-940e-N-12	City of Long Beach, Wise Ranch Well 1. NE. of Long Beach; 80 feet S. of Spring St., 711 feet E. of Studebaker Road. Use: Municipal. Casing: 26 inches. Perforated 330-410; 588-600; 632-654; 874-938; 953-980. Samples on 4/17/31 and 5/18/31 are from depths of 428, 618, and 980 feet, respectively, while drilling. Later samples are from operating well.	1009D	22	*1,086	(i)	4/17/31			42	240	18	43		52	7	[c]51
					(i)	5/18/31			60	165	14	3		25	2	[c]54
					(i)	5/18/31			51	162	11	14		29	2	[c]39
					(i)	7/ 5/32			42	215	11	16		41	4	[c]41
					(i)	8/ 3/32			53	186	15	3		29	3	[c]43
					(i)	9/13/32			51	191	14	29		34	4	[c]48
					(i)	10/ 1/32			48	194	14	29		37	4	[c]46
					(i)	11/ 1/32			53	191	16	30		34	4	[c]51
C-940f-N-12	Test Hole. NE. of Long Beach; 100 feet N. of Spring St., 300 feet W. of west levee of San Gabriel River. Casing: None.	1009E	24	11	771	3/ 2/32	236	0.41	94	[b]572	293	347	0	11	10	507
C-940m-N-12	City of Long Beach, Wise Ranch Well 2. NE. of Long Beach; 1,120 feet S. of Spring St., 710 feet E. of Studebaker Road. Use: Municipal. Casing: 26 inches. Perforated 320-344; 380-400; 570-595; 890-910; 930-952.	1009F	21	*1,041	(i)	7/ 5/32			42	152	14	23		32	4	[c]33
					(i)	8/ 3/32			42	196	13	24		40	4	[c]40
					(i)	9/13/32			65	170	15	29		22	3	[c]57
					(i)	10/ 1/32			54	192	14	30		33	3	[c]52
					(i)	11/ 1/32			42	204	15	26		43	4	[c]41
C-941d-K-13	Mr. Young. Santa Fe Springs; 150 feet SW. of Los Nietos Road, 60 feet SE. of Painter Ave., extended. Use: Irrigation. Gravel 40-48; 90-104.	1645G	160	*111	233	8/13/31	45.3		31	223	14	38	1	43	16	36
C-941k-J-13	Murphy Ranch. S. of Whittier; 581 feet NW. of Painter Ave., 581 feet SW. of Mulberry Drive, extended. Use: Irrigation. Casing: 8 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/9/31 are from same sample.	1654D	146		(l)	6/29/31				302	316					
					(l)	11/ 9/31				283	256					
					560	11/ 9/31	327			305	259					
					(l)	4/27/32				288	327					
C-941o-J-13	W. H. Stabs. S. of Whittier; 45 feet S. of Mulberry Ave., 0.15 mile W. of Painter Ave. Use: Irrigation. Casing: 12 inches.	1654F	148	x62	1679	1/ 6/33	342	0.33		244	178					
C-942e-K-13	J. J. Rebai. E. of Norwalk; 1,400 feet W. of Valley View Ave., 100 feet N. of road 0.5 mile S. of Imperial Highway. Use: Irrigation. Casing: 12 inches. Perforated 934-988.	1668B	105	*1,030	232	8/13/31	119.7		54	375	84	210	Tr.	53	41	162
C-944f-K-15	L. Good, Well 1. La Habra; 250 feet W. of La Mirada Ave., 0.10 mile N. of Ocean Ave. Use: Domestic. Casing: 7 inches. Open bottom casing.	1737A	244	x180	1771	2/12/33	167	0.14		122	209					
C-944g-K-15	L. Good, Well 2. La Habra; 450 feet S. of P. E. Ry., 115 feet W. of La Mirada Ave. Use: Domestic and irrigation. Perforated 585-605.	1737B	268	*x622	1772	2/12/33	96.7	0.22		369	59					
C-947e-L-14	Charles L. McComber, Plant 2. N. of Buena Park; 1,700 feet NE. of La Mirada Road along A. T. & S. F. Ry., 1,700 feet NW. of La Habra Road, 500 feet E. of unnamed road. Use: Irrigation. Casing: 12 inches. Perforated 695-716.	1101A	120	*740	(k)	12/ 4/25				99	41	88		30	Tr.	
C-948m-L-14	Standard Oil Co., Northam Well 4. NW. of Buena Park; 1,560 feet S. of Center St., 595 feet E. of N. and S. center line of Sec. 27, T. 3 S., R. 11W., S. B. B. & M., 85 feet W. of boiler house. Use: Boiler feed and domestic. Casing: 12 inches.	1081A	65	x1,023	37	6/ 5/31	48.9		79	195	21	57	0	16	4	97
C-948p-L-14	Charles L. McComber, Plant 4. NW. of Buena Park; 60 feet SW. of A. T. & S. F. Ry., 200 feet S. of La Mirada Road, 110 feet E. of Hanson Road, extended. Use: Irrigation. Casing: 11⅝ inches. Perforated 147-163; 196-202; 205-226; 253-267.	1081D	110	275	38	6/ 5/31	58.9		48	238	27	75		40	16	69
C-968b-K-15	Union Oil Co., Well 6. NE. of La Habra; 300 feet E. of Fullerton Road, 1,875 feet N. of Whittier Ave. (State Highway). Use: Irrigation. Casing: 16 inches. Perforated 300-750.	1765	471	*x756	(m)	Nov. 1927			54	336	115	311		58	51	[c]187
					(m)	Apr. 1931			39	317	127	386		105	62	[c]148
					(m)	June 1931		0.38	41	252	135	301		81	52	[c]135
					(l)	6/16/31	132	0.31	43	259	122	290	2	71	52	[c]137
C-969f-K-16	Union Oil Co., Well 9. NW. of Brea; 0.75 mile N. of Central Ave., 1,200 feet W. of Berry St. Use: Irrigation. Casing: 16 inches. Perforated 360-750.	1785	561	*x760	(m)	8/19/28			23	322	77	334		132	55	[c]77
					(m)	7/30/31		0.19	14	309	82	389		164	63	[c]49
					(l)	7/31/31	134	0.16	27	332	76	380	0	123	62	[c]98
C-969g-K-16	Union Oil Co., Well 14. NW. of Brea; 475 feet S. of Central Ave., 190 feet W. of Puente St. Use: Irrigation. Casing: 16 inches. Perforated 400-1700.	1786A	374	*1,709	(l)	5/9/31	163	0.24	47	220	162	423	13	85	59	[c]186
					(n)	5/14/31			42	358	173	491		136	65	[c]205

TABLE 12. WELLS IN LOWER SAN GABRIEL RIVER AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-969h-K-16	Union Oil Co., Well 5. W. of Brea; 320 feet S. of Ocean Ave., 800 feet E. of Puente St. Use: Irrigation. Casing: 16 inches. Perforated 1260–1740.	1787A	338	*x1,790	(m)	Nov. 1927	...		71	433	177	192	.....	54	24	c260
					(m)	Apr. 1931	...		60	447	162	306		81	40	c251
					(m)	June 1931	...	0.38	41	374	147	380		115	61	c171
					(l)	6/20/31	163	0.27	43	378	138	372	2	108	59	c177
					(m)	July 1931			57	416	156	341	..	81	49	c245
C-970m-K-15	D. J. Bastanchury, Well 1 (formerly Union-San Juan Well 1). S. of La Habra; 1,200 feet S. of Cedar Ave., 200 feet E. of Idaho St. Use: Irrigation. Casing: 18½ inches. Gravel 100–156; 380–622. Converted oil well.	1748B	300	*x4,695	(n)	6/9/31	...	0.33	57	348	107	133	.....	63	22	c150
					(l)	7/31/31	99	0.33	44	369	84	131	2	79	28	c112
C-970p-K-15	D. J. Bastanchury, Well 2. S. of La Habra; 1,200 feet S. of Cedar Ave., 250 feet E. of Idaho St., 50 feet E. of C-970m-K-15. Use: Irrigation. Casing: 16 inches.	1748C	300	x618	(l)	7/31/31	107	0.45	59	375	101	131	Tr.	59	22	160
C-972i-K-16	D. J. Bastanchury, Hill Forty, Well 2. W. of Brea; 1,750 feet S. of Ocean Ave. (Deodora St.), 100 feet W. of Puente St. Use: Irrigation. Casing: 24 inches. Perforated 930–1380, plugged at 1,440 feet. Converted oil well.	1788A	352	*x5,685	(n)	6/9/31	...	0.37	34	305	135	314		119	51	120
					(l)	6/23/31	143	0.25	39	332	135	300	5	100	54	141
C-972l-K-16	Union Oil Co., Well 16. W. of Brea; 100 feet S. of Cedar Ave., 2,000 feet W. of Berry St. Use: Irrigation. Casing: 16 inches. Perforated 900–1446, sanded up to 1,232. The analysis (6/10/31) is of the water pumped from the well with the top water entering through a hole in the casing at 121 feet and which is shown by separate analysis (6/23/31). This top water drops into the hole to meet the lower level at about 150 feet.	1788C	330	*x1,485	(l)	6/9/31	142	0.42	53	384	128	245	2	75	40	184
					(n)	6/10/31	...	0.60	56	a401	138	233	.....	71	39	197
					(n)	6/23/31	.....	...	21	329	192	138	.....	146	43	65
					(m)	June 1931	.....	...	56	383	138	233		71	39	197
					(m)	July 1931	...	...	37	346	142	254	.	109	48	128
					(l)	7/31/31	146	0.55	61	439	128	266	0	70	35	229

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.
[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by Carl I. Wilkinson, formerly Wilkinson and Burke, Los Angeles.
[e] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[f] Analysis by Los Angeles County Flood Control District, Los Angeles.
[g] Analysis by Los Angeles Testing Laboratory, Los Angeles.
[h] Analysis by Orange County Flood Control District, Santa Ana, California.
[i] Analysis by Smith-Emery Company, Los Angeles.
[j] Analysis by City of Long Beach, Engineering Laboratory.
[k] Analysis by Association Laboratory, Anaheim, California.
[l] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[m] Analysis by Union Oil Co. of California.
[n] Information from H. M. Bergen, Fullerton, California.
[o] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[p] Analysis by United States Geological Survey.

TABLE 13. SURFACE WATERS IN LOWER SAN GABRIEL RIVER AREA

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25° C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million)						
										Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S502-O-12	San Gabriel River. E. of Long Beach. Sampled at Ocean Ave. bridge. Small flow.	S502	5		767	3/ 2/32	300	1.80	72	[a]355	586	288	0	81	52	497
S959-N-11	Open drain. E. of Signal Hill. Sampled at E. side of Cerritos Ave., 0.4 mile S. of Spring St. Discharge estimated.	S959	25	1 ±	242	8/20/31	37.8		69	195	20	2	Tr.	18	5	68
S1062-L-13	Coyote Creek. E. fork W. of Buena Park. Sampled at Artesia St., 0.23 mile W. of Valley View Ave. Discharge from L. A. C. F. C. D. gaging station 41, below P. E. Ry. bridge near Artesia St.	S1062	50	0.15	858	3/24/32	92.1	0.44	50	329	94	64	10	65	19	111
S-1054-M-13	Coyote Creek. E. of Artesia. Sampled at Orangethorpe Ave. bridge, 0.18 mile E. of Carmenita Ave. U. S. D. A. and D. W. R. analyses on 3/2/32 are from same sample. Discharge estimated 1/31/33. Small flow on other dates.	S1054	40	----	744	2/15/32	281	2.24	----	345	674	----	----	----	----	----
				--	765	3/ 2/32	294	2.43	73	357	744	82	23	79	50	487
				----	(c)	3/ 2/32	297		75	[a]363	737	83	20	83	39	[b]494
				30 ±	1737	1/31/33	59.2	0.30	----	159	48		----	--		
S1028-N-13	Coyote Creek. W. of Los Alamitos. Sampled at Spring St. bridge, 0.20 mile W. of Los Alamitos Blvd. Small flow.	S1028	20	-- --	766	3/ 2/32	370	2.34		479	843		----	------		
S1061-L-13	Open drain. Along N. road gutter NW. of Buena Park. Sampled at NE. corner of Marquardt Ave. and Center St. Small flow.	S1061	66		738	2/12/32	95.9	0.34	--	223	106	--	-------	-------	----	--
S1636-K-13	George F. Getty Co. SE. of Santa Fe Springs. Oil well waste water from sump hole at intersection of Lakeland Road and A. T. & S. F. Ry. main line. Waste water from Santa Fe Springs oil fields.	S1636	155	-- --	1345	9/ 5/32	942	9.40	94	369	2,929	32	0	55	26	1,893

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-28-J-6	Palisades Del Rey Water Co., Plant 1, Well 1. S. of Venice; 120 feet W. of Pershing Blvd. (Coast Blvd.), 80 feet N. of Moscow St., 20 feet N. of Well 2, Plant 1. Use: Municipal standby. Casing: 16 inches. Perforated 97-133. L. A. D. of W. & P. No. 9-B-46.	1264	83	*x208	(f)	10/21/29			59	344	100	29		42	20	[c]122
					(d)	10/24/29				333	92					
					(f)	11/18/29			44	342	100	30		77	14	[c]91
					(d)	10/13/30				286	85					
					(d)	5/14/32				181	106					
					999	5/14/32	71 1	0 13	53	168	103	30	27	38	18	85
B-28a-J-6	Palisades Del Rey Water Co., Plant 1, Well 2, S. of Venice; 120 feet W. of Pershing Blvd. (Coast Blvd.), 60 feet N. of Moscow St., 20 feet S. of Well 1, Plant 1. Use: Municipal standby. Casing: 14 inches. Perforated 101-143; 158-176.	1264A	83	*216	(d)	Oct., 1929				337	92					
					(d)	5/14/32				437	89					
					1000	5/14/32	84 4	0 18	49	314	98	42	1	53	23	101
B-28b-J-6	Palisades Del Rey Water Co., Plant 2, Well 3. S. of Venice; 0.5 mile E. of Pershing Blvd. (Coast Blvd.), 500 feet S. of Manchester Blvd., 70 feet N. of Batavia Ave., 10 feet E. of Gulana St. Use: Municipal. Casing: 18 inches. Perforated 137-200. L. A. D. of W. & P. No. 9-B-42.	1264B	130	*x305	(f)	10/21/29			73	832	100	32		62	19	[c]286
					(f)	11/18/29			46	330	98	33		67	17	[c]94
					(d)	10/13/30				334	85					
					(f)	10/21/30			45	311	100	34		77	11	[c]89
					(f)	4/ 1/31			51	343	123	29		65	18	[c]114
					(d)	6/ 8/31				352	89					
					183	7/31/31	86 8		48	348	94	29	0	56	23	100
					889	3/24/32	87 2	0 26	48	363	87	28	Tr.	57	23	101
					1001	5/14/32	86 2	0 22	46	336	98	32	1	58	23	97
B-28c-J-6	G. P. Barnard. S. of Venice; 200 feet NE. of Gulana Ave., 380 feet NW. of Moscow Ave., 1700 feet S. of Manchester Blvd., one-half mile NE. of Pershing Drive (Coast Blvd.). Use: Domestic. Casing: 12 inches. Perforated 185-203. L. A. D. of W. & P. No. 9-B-43.	1264C	126	*x250	(f)	10/21/29			63	392	100	60		54	14	[c]152
					(d)	10/24/29				348	82					
					(f)	11/18/29			58	367	80	64		55	16	[c]127
					(f)	1/ 8/30			45	300	86	46		56	22	[c]85
					(f)	4/ 3/30			45	357	80	65		86	11	[c]98
					(f)	6/ 3/30			47	358	64	58		80	8	[c]96
B-28d-J-6	Los Angeles Extension Land Co. (formerly Frick Martin Co.—Ceotinela Ranch). N. of El Segundo; 0.25 mile S. of Manchester Ave., 1.35 miles W. of Arizona Ave., 0.06 mile W. of Lincoln Blvd. at Manchester Ave. Use: Not used, and now capped; formerly domestic and irrigation. Casing: 10 inches. Old oil well temporarily converted to water well. Equipment removed in 1929. Water had H_2S odor.	1284	162	x400	(d)	10/24/29				340	89					
B-33-K-6	City of El Segundo, Well 1. El Segundo; 120 feet S. of Holly Ave., 110 feet E. of Lomita St. Use: Municipal. Casing: 16 inches. Perforated 236-256; 290-320. L. A. D. of W. & P. No. 9-D-3.	1297	173	*x355	(f)	12/ 6/29			29	132	100	28		61	11	[c]37
					(e)	3/ 4/30			42	[a]297	92	23		59	23	[c]80
					(f)	3/28/30			35	214	96	33		80	6	[c]55
					(f)	5/ 9/30			35	250	100	27		66	19	[c]60
					(f)	6/ 9/30			29	249	124	27		98	11	[c]54
					(e)	11/25/30			40	282	92	14		59	17	[c]67
					(f)	2/13/31			41	[a]223	98	0		61	9	[c]60
					(e)	3/16/31			36	[a]312	88	7		67	22	[c]68
					(f)	4/ 6/31			38	236	128	33		71	18	[c]72
					(d)	6/18/31				200	110					
					(g)	7/16/31				254	94	[b]20				
B-33a-K-6	City of El Segundo, Well 2. El Segundo; 250 feet E. of Lomita St., 50 feet W. of Maryland St., 120 feet S. of Holly Ave. Use: Municipal. Casing: 16 inches. Perforated 210-220; 230-244; 278-300. L. A. D. of W. & P. No. 9-D-2.	1297A	170	*x503	(f)	1/ 7/30			23	252	98	18		88	14	[c]39
					(f)	9/11/30			48	286	104	19		66	11	[c]88
					(f)	3/ 9/31			58	260	123	17		60	5	[c]108
					(d)	6/18/31				270	92					
					(g)	7/16/31				268	86	[b]10				
B-33b-K-6	City of El Segundo, Well 3. El Segundo; 25 feet S. of Holly Ave., 25 feet E. of Lomita St. Use: Municipal. Casing: 16 inches. Perforated 218-250; 291-301. L. A. D. of W. & P. No. 9-D-1.	1297B	170	*x370	(f)	11/ 5/29			52	311	104	35		68	10	[c]104
					(g)	7/16/31				298	110	[b]40				
					186	7/31/31	75 7		41	192	114	48	1	56	20	69
					(f)	10/ 3/31			36	[a]186	110	23		67	11	[c]55
					896	3/29/32	73 8	0 16	41	198	112	49	1	57	21	72
B-33c-K-6	Standard Oil Co., Well 6. El Segundo; 1500 feet S. of El Segundo Blvd., 4100 feet E. of Main St., extended, 180 feet E. of tank 9468. Use: Industrial. Casing: 20 inches. Perforated 196-212; 230-238; 251-270; 289-319; 367-395; 435-441; cemented 235-246. L. A. D. of W. & P. No. 9-D-10.	1298	130	x530	(f)	11/ 8/29			44	342	90	18		80	9	[c]87
					(f)	12/ 5/29			42	336	88	3		66	17	[c]77
					(f)	1/ 7/30			59	288	92	9		41	12	[c]102
					(e)	3/ 4/30			37	[a]346	96	5		71	20	[c]71
					(f)	4/ 5/30			21	310	104	18		103	18	[c]41
					(f)	5/ 8/30			46	310	110	9		74	10	[c]88
					(f)	6/ 9/30			50	279	100	14		75	1	[c]89
					(f)	7/ 7/30			62	[a]331	126	7		47	13	[c]131
					(e)	11/25/30			40	328	90	8		67	19	[c]74
					(e)	3/16/31			38	[a]334	112	8		76	21	[c]77
					1838	3/14/33	81 6	0 20		392	98					

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-33f-K-6	Standard Oil Co., Well 7. El Segundo; 2500 feet S. of El Segundo Blvd., 4400 feet E. of Main St., extended, 200 feet E. of tanks 498 and 9408. Use: Industrial. Casing: 16 inches. Perforated 214-302; cemented at 460-475. L. A. D. of W. & P. No. 9-D-11.	1299	135	*x475	(f)	11/ 8/29			31	236	104	6		68	17	c49
					(f)	12/ 5/29			52	380	100	6		66	13	c110
					(f)	1/ 7/30			42	300	102	3		65	16	c75
					(e)	3/ 4/30			38	a309	100	10		69	19	c71
					(f)	4/ 5/30			30	264	100	8		70	20	c50
					(e)	4/29/30			38	a313	101	Tr.		66	19	c70
					(f)	5/ 9/30			30	226	105	2		68	16	c46
					(f)	6/ 9/30			55	121	116	4		25	14	c68
					(f)	7/ 7/30			47	236	157	8		65	15	c92
					(e)	11/14/30			39	305	147	8		79	21	c85
					(e)	12/ 9/30			36	304	110	2		72	21	c68
					(f)	2/13/31			47	284	136	14		70	14	c95
					(f)	2/28/31			45	272	136	10		72	13	c88
					(e)	3/16/31			35	a299	104	10		73	20	c67
					(f)	4/ 6/31			38	283	139	12		78	19	c77
					(d)	6/18/31				293	110					
					188	7/31/31	80.3		34	293	108	8	0	70	24	66
					898	3/31/32	81.1	0.13	36	302	112	12	0	70	22	69
					959	5/ 4/32	81.6	0.12	35	293	114	10	0	72	23	69
					1038	6/ 3/32	82.8	0.09		296	112					
					1143	7/ 6/32	82.9	0.11		299	114					
					1267	8/ 8/32	83.8	0.10	35	299	114	14	0	71	23	68
					1359	9/ 6/32	84.0	0.14		302	112					
					1467	10/10/32	83.5	0.16		299	112					
					1532	11/ 3/32	83.1	0.16	35	296	112	10	0	70	23	66
					1587	12/13/32	82.6	0.17	34	299	112	5	0	72	24	67
					1769	1/12/33	82.1	0.14		296	110					
					1768	2/10/33	82.5	0.12	36	296	110	17	0	69	22	68
B-34j-J-7	Fox Hills Country Club, Well 1. NW. of Inglewood; 600 feet S. of Slauson Ave., 2200 feet E. of Jefferson Blvd. Use: Irrigation and domestic. Casing: 18 inches. Perforated 55-58; 205-210; 252-260; 269-272; 288-305; 419-428. L. A. D. of W. & P. No. 10-A-4.	1311A	45	*501	(f)	6/ 3/30			55	364	88	103		72	14	c134
B-34k-J-7	Frank Abell. Inglewood; 0.06 mile W. of Oak St., 150 feet N. of Redondo Blvd. Use: Domestic.	1333A	100	180	1299	8/29/32	75.6	0.14		241	71					
B-35-J-7	Sarah Kummer. Inglewood; 50 feet W. of Inglewood Ave., 15 feet N. of Edith St., 800 feet S. of Arbor Vitae Ave. Use: Domestic. Casing: 0 inches.	1334	100	x70	1297	8/29/32	164	0.07		a360	229					
B-36a-K-6	Andrew Bennett. N. of El Segundo; 400 feet W. of Arizona Drive, 0.5 mile N. of Imperial Highway, across from Municipal Airport. Use: Irrigation and domestic. Casing: 12 inches. Perforated 120-132; 180-190.	1306A	105	*x624	191	7/31/31	102.8		48	480	91	30	Tr.	66	32	123
B-37e-K-7	O. T. Johnson Rancho, Well 8. E. of El Segundo; 50 feet S. of El Segundo Blvd., 400 feet E. of Inglewood-Redondo Blvd. Use: Irrigation. Casing: 14 inches. Perforated 131-149; 312-336; 352-358.	1328	100	*x421	189	7/31/31	75.5		35	271	101	8	0	65	21	61
B-37h-K-7	O. T. Johnson Rancho, Well 9. W. of Hawthorne; 0.45 mile E. of Redondo Blvd., 0.25 mile N. of Rosecrans Blvd. Use: Irrigation. Casing: 14 inches. Perforated 196-206; 340-370; 420-435; 470-485.	1329A	100	*x506	190	7/31/31	71.4		52	396	41	Tr.	0	38	21	90
B-37k-L-7	General Chemical Co., Well 2. El Segundo; 225 feet N. of Rosecrans Ave., 40 feet E. of Catoino Real. Use: Industrial. Casing: 16 inches. Perforated 200-212; 220-239; 299-347.	1309A	150	*428	(e)	3/25/30			49	a336	68	26		49	20	c90
					(e)	11/25/30			55	333	54	7		47	16	c102
					(e)	3/16/31			45	a320	58	10		51	17	c73
B-37p-K-6	Standard Oil Co., El Segundo Well 10. El Segundo; 200 feet S. of El Segundo Ave., 350 feet W. of Arizona Ave. Use: Industrial. Perforated 230-288.	1308A	106	345	(e)	3/ 4/30			42	a368	92	11		63	21	c81
					(e)	11/25/30			40	343	82	3		61	22	c72
					(e)	3/16/31			40	a311	111	6		64	22	c76
					187	7/31/31	76.5		39	336	84	Tr.		59	24	73
					(d)	6/18/31				337	85					
B-38c-J-8	City of Inglewood, Well 10. Inglewood; 260 feet E. of Prairie Ave., 625 feet S. of Manor Drive. In City Park. Use: Municipal. Casing: 18 inches. Perforated 110-130; 181-197; 256-273.	1352C	142	*293	(g)	7/16/31				239	48	b50				
B-38g-J-7	City of Inglewood, Well 14. Inglewood; 15 feet W. of Prairie Ave., extended north, 15 feet N. of Hazel St., extended east. In City Park. Use: Municipal. Perforated 102-104; 169-189; 240-242.	1352G	140	*255	(g)	7/16/31				254	91	b75				
					209	8/ 6/31	82.4		28	253	91	73	Tr.	90	19	53

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-38h-J-7	City of Inglewood, Well 15. Inglewood; 193 feet NW. of A. T. & S. F. Ry., 605 feet NE. of Centinela Ave. Use: Municipal. Casing: 18 inches. Perforated 136-145; 152-168.	1352H	138	*382	(g)	7/16/31	.....	.....	.....	234	52	[b]80	.....	.....	.....	.....
B-41-K-7	City of Hawthorne, Well 1. Hawthorne; 265 feet W. of Ramona Ave., 675 feet N. of El Segundo Blvd. Use: Municipal. Casing: 12 inches. Perforated 320-364; 405-412.	1348	90	*x569	(g)	7/16/31	.....	.....	.....	293	32	[b]5	.....	.....	.....	.....
B-41a-K-7	City of Hawthorne, Well 2. Hawthorne; 75 feet W. of Ramona St., 665 feet N. of El Segundo Blvd. Use: Municipal. Casing: 14 inches. Perforated 321-360; 400-403; 454-469; 622-634.	1348A	95	*x679	(g) 192	7/16/31 7/31/31	..... 56.4	....	 47	327 320	31 28	[b]25 6	 0	 37	 17	 67
B-44-K-8	C. A. Van Nest. Hawthorne; 35 feet S. of June St., 300 feet W. of Walnut Ave. Use: Domestic. Casing: 6 inches.	1366	81	x160	1298	8/29/32	76.1	0.08	.....	[a]222	98	.....	.....	.....	.....	.....
B-48a-K-8	O. T. Johnson Rancho, Well 3. NE. of Hawthorne; 50 feet S. of Imperial Highway, 400 feet E. of Arlington Ave. Use: Irrigation. Casing: 12 inches. Perforated 233-248; 320-344.	1386A	125	*407	208	8/ 6/31	56.3	.....	35	253	11	31	0	49	18	47
B-54-K-8	American States Water Service Co. (formerly Gardena Valley Water Co.), Ballona Plant. W. of Athens; 150 feet S. of El Segundo Blvd., 222 feet W. of Budlong Ave. Use: Municipal. Casing: 16 inches. Perforated 273-277; 285-320; 447-500; 525-543.	1408	135	*x564	(h)	12/ 6/30	.....	.....	29	.....	32	47	.....	61	15	[c]40
B-54c-K-8	American States Water Service Co., Well 3. SE. of Athens; 6 feet S. of 135th St., 400 feet W. of Vermont Ave. Use: Municipal. Casing: 16 inches. Perforated 240-380; 408-412; 444-450; 500-518; 556-582.	1409A	83	*x582	(h) 195	12/ 6/30 8/ 6/31	..... 56.8	....	34 31	 223	31 27	82 78	 0	66 58	14 16	[c]52 43
B-54g-L-9	Mrs. B. Leitch, Well 1. N. of Gardena; 200 feet N. of Rosecrans Ave., 115 feet E. of Hoover St., extended. Use: Domestic. Casing: 8 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/14/31 are from same sample.	1419	92	x160	(d) (d) 524 1659	6/16/31 11/14/31 11/14/31 12/16/32	.... 64.0 69.9	.... 0.11	 34	268 283 290 281	62 55 52 75	 24	 1	 69	 17	 58
B-84-L-6	City of Manhattan Beach, Well 1. Manhattan Beach; 15 feet W. of Sepulveda Blvd., 190 feet S. of 8th St. Use: Municipal. Casing: 16 inches. Perforated 221-240; 527-541.	701B	139	*x1,000	(d)	6/20/31	.....	.....	.....	213	89	.....	.....	.....	.....	.....
B-84a-L-6	City of Manhattan Beach, Well 2. Manhattan Beach; 20 feet N. of 8th St., 250 feet W. of Sepulveda Blvd. Use: Municipal. Casing: 16 inches. Perforated 222-252; 284-293.	701	155	*339	(d) (g) 885	6/20/31 7/16/31 3/24/32	.... 69.1	.... 0.18	 42	277 254 247	78 67 89	..... [b]15 23	 2	 51	 15	 62
B-84b-L-6	City of Manhattan Beach, Well 3. Manhattan Beach; 75 feet W. of Sepulveda Blvd., 15 feet S. of 8th St. Use: Municipal. Casing: 14 inches. Perforated 214-218; 225-235. L. A. D. of W. & P. No. 8-A-2.	701A	150	*547	(f) (f) (f) (f) (f) (f) (f) (f) (f) (f)	11/13/29 12/ 9/29 3/28/30 5/ 9/30 6/ 9/30 9/10/30 10/22/30 2/13/31 3/ 9/31 4/ 6/31	....	....	47 35 45 39 38 47 39 63 55 43	236 258 [a]238 224 [a]218 359 223 [a]283 [a]224 236	80 120 76 81 78 82 76 80 105 103	24 32 30 27 24 43 29 30 26 23	....	53 96 53 55 57 62 68 43 50 62	10 7 16 15 12 11 6 8 9 13	[c]72 [c]67 [c]76 [c]59 [c]56 [c]80 [c]58 [c]109 [c]91 [c]71
B-84c-L-6	City of Manhattan Beach, Well 4. Manhattan Beach; 255 feet S. of 8th St., 235 feet W. of Sepulveda Blvd. Use: Municipal. Casing: 16 inches. Perforated 239-248; 248-258.	701C	155	*617	(d) (g) 163	6/20/31 7/16/31 7/23/31	.... 70.8	....	 47	196 180 174	103 110 110	..... [b]23 15	 11	 51	 15	 75
B-85-L-7	Herman Vetter. Hermosa Beach; 125 feet N. of 16th St., 400 feet W. of Camino Real, 300 feet E. of A. T. & S. F. Ry. Use: Domestic. Casing: 6 inches.	703	90	x260	406 886	10/ 6/31 3/24/32	69.7 57.5	0.09 0.14	36 40	268 253	76 53	33 16	0 0	61 48	21 14	61 55
B-85c-L-7	California Water Service Co., Plant 5, Well 6. Redondo Beach; 50 feet E. of Pier Ave. between Carnegie and Gould Aves. Two wells in same pit. Use: Municipal. Casing: 12 inches. Perforated 190-742.	712	100	*x502	(g) 145	7/17/31 7/21/31	..... 62.9	....	 40	254 247	59 57	[b]23 37	 0	 54	 16	 61
B-85d-L-7	California Water Service Co., Plant 6, Well 9. Redondo Beach; 60 feet W. of Pier Ave. between Carnegie and Gould Avenues, opposite Plant 5. Use: Municipal. Casing: 16 inches.	712A	105	273	(g) 146	7/17/31 7/21/31	..... 64.9	....	 39	258 253	61 60	[b]25 35	 0	 56	 16	 62
B-85e-L-7	Walter Havilaod. Redondo Beach; 80 feet W. of Pier Ave., 110 feet N. of Ormand Lane. Use: Not used. Casing: 12 inches. Samples are from 140, 190, 160 feet, and surface of water, respectively.	713	125	x192	(d) (d) (d) (d)	11/ 9/31 11/ 9/31 4/21/32 4/21/32	....	....	....	166 225 103 161	85 64 71 78	....	....	....	....	....

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-85f-L-7	California Water Service Co., Plant 5, Well 5. Redondo Beach; 50 feet E. of Pier Ave. between Carnegie and Gould Aves. Two wells in same pit. Use: Municipal. Casing: 12 inches. Gravel 193-200; 255-257; 277-281; 285-300.	712B	100	*340	(e)	7/17/31				254	58	[b]30				
B-86b-M-7	Southern California Edison Co., Ltd. Hermosa Beach; 125 feet N. of Anita St., 300 feet E. of Camino Real, back of ice plant. Use: Abandoned. Casing: 14 inches. Perforated 200-235. Both samples taken from surface of water.	714	82	*x281	(d)	6/27/31				258	57					
					(d)	7/14/31				171	53					
B-86e-M-7	California Water Service Co., Hermosa-Redondo Well 3. Redondo Beach; 30 feet E. of Maria St., 150 feet N. of Garnet St., 0.17 mile N. of Torrance Blvd. Use: Municipal. Casing: 18 inches. Perforated 228-232; 232-255; 255-259.	725	150	*x526	144	7/21/31	59.4		46	244	71	3	1	42	17	71
B-86h-M-7	Redondo Union School. Redondo Beach; 40 feet S. of P. E. Ry. on W. line of Maria St., extended. Use: Irrigation and domestic. Casing: 20 inches. Perforated 224-230; 250-267.	725C	120	*x336	(d)	7/21/31				232	60					
					407	10/6/31	55.0	0.10	40	235	57	12	0	43	18	55
					(d)	11/9/31				225	64					
					887	3/24/32	55.5	0.19	43	223	57	16	1	43	13	56
					960	5/11/32	53.8	0.16	44	220	59	7	0	37	15	54
					1032	6/3/32	56.0	0.17		229	57					
					1133	7/6/32	56.4	0.15		226	60					
					1357	8/31/32	57.4	0.21		229	60					
					1457	10/10/32	57.4	0.20		229	62					
					1522	11/3/32	57.4	0.16	42	220	62	14	1	43	14	56
					1589	12/13/32	56.6	0.17		220	64					
					1760	1/22/33	57.1	0.12		220	62					
					1761	2/10/33	56.7	0.14		223	62					
					1831	3/6/33	57.1	0.16		223	64					
B-87-M-7	California Water Service Co., Old Well 5. Redondo Beach; 150 feet N. of Pearl St., 90 feet W. of Irena Ave., interconnected at 90-foot depth to Old Well 3, 60 feet north. Use: Not used. Casing: 14 inches. Perforated 210-241. Samples on 6/18/31 were taken at surface of water and at depth of 35 feet. Samples on 7/14/31 were from depths of 120, 200, and 225 feet, respectively. Samples on 10/6/31 were from depths of 110 and 223 feet. Samples on 4/21/32 were from depths of 110 and 230 feet.	716	96	*x306	(d)	6/18/31					211					
					(d)	6/18/31				261	106					
					(d)	6/27/31				261	106					
					(d)	7/14/31				273	99					
					(d)	7/14/31				283	110					
					(d)	7/14/31				288	121					
					404	10/6/31	75.9	0.15		271	114					
					405	10/6/31	76.1	0.15		277	114					
					(d)	4/21/32				278	128					
					(d)	4/21/32				293	121					
B-88-M-7	California Water Service Co., Well 11, Huntington Well. SE. of Redondo; 1.7 miles W. along Redondo-Wilmington Blvd., 800 feet N. of intersection of Redondo-Wilmington Blvd. and Paseo de Gracia, back of Rifle Range. Use: Formerly municipal, not used since 1932. Casing: 18 inches. Perforated 224-338.	728	75	*x401	(e)	7/16/31				346	96	[b]5				
					143	7/21/31	79.1		52	351	91	0	0	46	23	106
B-90c-L-7	California Water Service Co., Plant 8, Well 8, Pump 11. NW. of Redondo Beach; 200 feet S. of Redondo Blvd. (Gould Ave.), 200 feet W. of Felton Lane. Use: Municipal. Casing: 16 inches. Perforated 173-327. L. A. D. of W. & P. No. 8-A-8.	732	100	*x449	(f)	11/13/29			41	242	66	49		61	12	<64
					(f)	12/9/29			38	234	108	48		78	12	<69
					(f)	1/7/30			15	222	66	49		91	12	<23
					(f)	4/10/30			33	202	64	49		86	1	<49
					(f)	5/9/30			39	[a]244	65	47		60	14	<61
					(f)	6/9/30			34	194	68	47		58	14	<47
					(f)	8/27/30			15	[a]169	70	41		82	8	<19
					(f)	10/21/30			40	223	66	34		75	0	<57
					(f)	11/18/30			26	236	42	49		72	11	<36
					(f)	2/13/31			43	223	60	49		58	9	<63
					(f)	3/9/31			49	[a]177	85	46		61	2	<70
					(f)	4/6/31			40	[a]236	82	46		69	10	<66
					(e)	7/17/31				254	63	[b]35				
					148	7/21/31	65.2		38	244	62	45	0	57	17	61
B-90h-L-7	California Water Service Co., Plant 12, Well 12, Pump 12. Redondo Beach; 500 feet N. of Redondo-Riverside Blvd. (Gould Ave.) 40 feet E. of Blossom Lane, 130 feet N. of Mathews Ave. Use: Municipal. Casing: 16 inches. L. A. D. of W. & P. No. 8-A-7.	722B	110	500	(f)	10/24/30			42	[a]248	74	31		64	9	<66
					(f)	2/13/31			43	236	72	34		58	11	<65
					(f)	3/9/31			28	[a]260	92	32		94	9	<49
					(f)	4/6/31			40	260	92	33		65	15	<70
					147	7/21/31	66.7		40	256	69	33	0	55	18	64
B-91-L-7	American States Water Service Co., Well 13. Lawndale; 140 feet S. of Chicago St. (Amestoy Ave.), 15 feet W. of 5th Ave. Use: Domestic. Perforated 378-399.	740	60	*x438	170	7/23/31	56.2		43	320	27	Tr.	Tr.	41	20	64

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-94-M-7	Bob Veda (Dr. Ellenwood lease). SE. of Redondo Beach; 1 mile W. of Hawthorne Ave., 500 feet S. of Redondo-Long Beach Road, 1,100 feet E. of SE. corner of Redondo Beach City Boundary. Use: Irrigation. Casing: 16 inches. Perforated 305-314; 330-335; 350-355; 377-390.	737	110	*x416	(d)	12/18/31				312	71					
					888	3/24/32	58.5	0.27	58	293	50	0	0	34	11	83
					969	5/11/32	59.2	0.20	56	290	52	0	0	34	13	81
B-94c-M-7	C. H. Quandt, Well 2. SW. of Torrance; 85 feet E. of Ocean Ave., 615 feet S. of Redondo-Long Beach Blvd., 50 feet SE. of Well 1. Use: Irrigation and domestic. Casing: 14 inches. Perforated 241-275.	747A	80	*300	164	7/23/31	56.7		63	284	46	1	Tr.	24	12	88
					(d)	11/ 9/31				273	43					
B-95-N-7	Bob Veda (Dr. Ellenwood lease), Well 3. SE. of Redondo Beach; 60 feet N. of Redondo-Wilmington Blvd., 800 feet E. of bend in road, 0.85 mile W. of Hawthorne Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 282-297; 346-360.	739	108	*x367	173	7/23/31	102.2		41	415	126	17	0	70	36	103
					(d)	12/18/31				420	142					
					882	3/23/32	102	0.32	41	427	130	14	0	71	34	101
					968	5/11/32	104	0.24	40	430	130	15	0	70	36	100
B-100b-N-8	Union Oil Co. SW. of Torrance; 100 feet S. of Lomita Blvd., 0.4 miles NW. of Pennsylvania Ave., inside tank farm. Use: Fire prevention and domestic. Casing: 14 inches. Gravel 188-197; 230-300.	769	77	*660	174	7/23/31	60.6		72	265	67	0	0	19	11	107
B-103-M-8	Columbia Steel Co., Well 2. Torrance; 500 feet S. of 208th St., 1,100 feet E. of Arlington Ave. Use: Industrial. Casing: 14 inches. Perforated 122-160; 293-306; 330-450.	785	65	*x653	1586	12/ 8/32	55.1	0.19	46	238	48	4	2	34	17	60
B-103a-M-8	Columbia Steel Co., Well 1. Torrance; 500 feet E. of Arlington Ave., 600 feet S. of 208th St. Use: Industrial and domestic. Casing: 14 inches. Perforated 293-304; 350-364; 380-388; 577-598.	785A	67	*613	169	7/23/31	51.6		47	244	39	6	1	32	17	60
B-103b-L-8	Southern California Edison Co., Ltd. Torrance; 250 feet W. of Western Ave., 300 feet N. of 190th St. (Dominguez St.). Use: Industrial. Casing: 12 inches. Perforated 470-485; 522-528.	794	57	*x550	165	7/23/31	44.6		45	241	27	3	Tr.	35	12	52
B-106-L-8	American States Water Service Co. (formerly Gardena Valley Water Co.), Well 2. Gardena; 50 feet S. of Amestoy Ave., 30 feet W. of Esther St., extended, in wooden pump house. Use: Municipal. Casing: 16 inches. Gravel 190-220; 570-680.	800	53	*x680	(b)	12/ 6/30			32		35	47		59	15	[c]45
					166	7/23/31	55.7		34	229	25	63	0	58	15	48
B-106f-L-9	Gordon Ranch. NE. of Gardena; 60 feet W. of Harbor Blvd. (Main St.), 2,100 feet N. of Riverside-Redondo Blvd., under derrick in pump house. Use: Irrigation and domestic. L. A. D. of W. & P. No. 7-A-11.	820A	120	x299	(f)	10/27/30			20	199	64	80		91	10	[c]31
					(f)	3/17/31			51	224	100	136		85	4	[c]109
B-106p-L-9	J. W. Goode. Gardena; 75 feet S. of Olive St. (161st St.), 130 feet E. of Menlo Ave., 750 feet E. of Vermont Ave. Use: Irrigation.	811B	41	x40	1674	1/13/33	62.2	0.12	35	[a]265	41	51	2	58	18	54
B-107b-L-8	Roosevelt Memorial Park. S. of Gardena; 400 feet S. of 182d St., 400 feet W. of Normandie Ave. Use: Irrigation. Casing: 10 inches. Perforated 526-546; 594-604. L. A. C. F. C. D. and D. W. R. analyses on 11/14/31 are from same sample.	803	44	*679	(d)	7/15/31				226	80					
					(d)	11/14/31				219	69					
					521	11/14/31	63.0			229	69					
B-107c-L-9	William C. Gibboney (lessee). SE. of Gardena; 0.23 mile S. of 182d St., 100 feet E. of Figueroa St. Use: Domestic. Casing; 5-foot dug shaft. L. A. C. F. C. D. and D. W. R. analyses on 11/14/31 are from same sample.	813	26	25	(d)	7/15/31				254	182					
					(d)	11/14/31				293	183					
					522	11/14/31	112			290	169					
					1807	2/ 8/33	110	0.16		241	169					
B-107d-L-9	Ren Ayala. SE. of Gardena; 300 feet W. of Figueroa St., 300 feet N. of 182d St. Use: Irrigation.	812	28	42	(d)	Dec. 1931				549	323					
					876	4/ 6/32	209	0.22	28	473	371	154	20	188	66	134
					974	5/12/32	206	0.20	32	467	362	148	20	185	69	164
					1033	6/ 3/32	204	0.24		467	355					
					1134	7/ 5/32	186	0.19		311	348					
					1257	8/ 8/32	188	0.25	36	330	341	148	18	140	63	161
					1346	8/31/32	198	0.32		[a]460	330					
					1458	10/ 5/32	189	0.28		354	332					
					1523	11/ 2/32	196	0.24	34	406	337	144	23	162	67	160
					1565	12/ 6/32	200	0.25		470	343					
					1651	1/ 4/33	202	0.23	34	384	348	157	27	166	67	167
					1737	2/ 3/33	186	0.24		357	332					
B-108-M-8	F. S. Austin. E. of Torrance; 200 feet N. of East Road, 130 feet E. of Walnut St. Use: Not used. Casing: 7 inches.	805	35	x	(d)	6/23/31				141	46					

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-108a-M-9	Dominguez Ranch. SE. of Gardena; 0.6 mile N. of East Road (208th St.), 1,200 feet E. of Main St. (Harbor Blvd.), 800 feet SW. of Nigger Slough. Use: Domestic and irrigation. Casing: 6 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/14/31 are from same sample.	824	21	x60	(d)	7/15/31		---	-	224	27					
					239	8/19/31	53.2		32	[a]216	27	66	0	55	16	44
					523	11/14/31	54.9	---		223	23					
					(d)	11/14/31				225	21					
					851	3/31/32	53.8	0.12	34	217	23	67	0	56	10	42
B-108b-M-9	Ray O'Boley. SE. of Gardena; 0.6 mile N. of East Road, 100 feet W. of Main St. (Harbor Blvd.). Use: Domestic. Casing: 5 inches.	814	21	70	(d)	7/15/31	--	---		215	32					
					(d)	11/14/31		---	-	200	18					
B-109c-M-9	Dominguez Water Co. N. of Wilmington; 50 feet S. of Carson St., 0.45 mile E. of Harbor Blvd. Use: Not used. Casing: 12 inches. Open bottom casing and not perforated. Sampled at depths of 100, 500, and 1,000 feet, respectively.	826	29	*x1,701	401	10/6/31	76.3	0.57		454	34					
					402	10/6/31	72.9	0.54		448	30					
					403	10/6/31	71.9	0.53		442	30					
B-110-N-8	Bob Veda. SE. of Torrance; 0.25 mile S. of 228th St. (Ocean Ave.), 0.25 mile E. of Normandie St. Use: Irrigation. Casing: 12 inches. Perforated 245-258; 280-288; 338-344; 380-388; 460-470.	808	56	*x563	(d)	6/16/31		---		209	20					
					512	11/12/31	40.4	---		223	23					
B-110a-N-9	Fred Fiesel. N. of Wilmington; 100 feet E. of Vermont Ave., 1,500 feet N. of Rocha St. Use: Domestic. Casing: 7 inches.	818	45	x220	(d)	6/16/31		---		222	25					
					528	11/12/31	43.1	---		223	27					
B-110b-N-9	Ted Kleinmeyer. N. of Wilmington; 195 feet W. of Main St. (Harbor Blvd.), 210 feet N. of Rocha St. Use: Domestic. Casing: 12 inches.	829	42	x120	871	4/11/32	40.0	0.14	55	217	25	2	Tr.	23	10	55
B-110c-N-9	Pan American Petroleum Co. N. of Wilmington; 200 feet N. of Rocha St., 200 feet E. of Harbor Blvd. Use: Industrial. Casing: 12 inches. Gravel 216-235. Pump removed in May, 1932.	829A	43	*262	(d)	6/16/31	--			214	234			--		
B-110f-N-9	E. L. Forrester. N. of Wilmington; 0.4 mile N. of Rocha St., 50 feet W. of Main St. (Harbor Blvd.). Use: Domestic. Casing: 6 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/12/31 are from same sample.	828	37	90	(d)	7/15/31		-----		209	135					
					(d)	11/12/31		---		211	126					
					520	11/12/31	84.5			217	130					
B-110g-N-9	Mrs. Addie V. Stewart. N. of Wilmington; 150 feet S. of Rocha St., 150 feet E. of Main St. (Harbor Blvd.). Use: Domestic and irrigation. Casing: 6 inches.	829C	41	100	(d)	7/15/31		---		256	305					
					525	11/14/31	141			253	311					
					870	4/11/32	146	0.13	47	265	325	37	2	100	34	156
					962	5/11/32	146	0.12	45	265	320	73	2	99	35	149
					1034	6/3/32	147	0.11		271	323					
					1135	7/5/32	148	0.10		262	316					
					1258	8/8/32	147	0.13	47	253	316	38	4	96	32	149
					1347	8/31/32	148	0.12		[a]262	316					
					1459	10/5/32	147	0.14		268	312					
					1524	11/2/32	148	0.13	46	265	316	39	4	102	32	150
					1566	12/6/32	145	0.19		272	312					
					1653	1/4/33	149	0.12	46	278	312	38	2	100	32	151
					1738	2/3/33	145	0.16		271	314					
					1832	3/6/33	145	0.14		268	309					
B-110h-M-9	Fiesel Bros. N. of Wilmington; 50 feet S. of Ocean Ave., 150 feet W. of Figueroa St. Use: Domestic.	818A	42	250	(d)	7/15/31				222	25					
					516	11/12/31	42.4			229	20					
B-111a-L-9	John Myers. E. of Gardena; 100 feet N. of Palm Ave., 600 feet E. of Los Angeles St. Use: Irrigation and domestic. Casing: 8 inches. Gravel 191-199.	831	61	*235	161	7/23/31	56.0		33	223	23	76	0	59	15	46
B-113a-M-9	Dominguez Water Co., Well 2. SE. of Gardena; in open field 1,300 feet E. of Avalon Blvd., 1 mile S. of Victoria St., 2,000 feet E. of Well 1. Use: Not used. Casing: 12 inches. Perforated: 633-671; 688-703. Sampled at surface of water, 650- and 700-foot depths, respectively.	834A	13	*x750	(d)	11/18/31				278	46					
					(d)	11/18/31				299	27					
					(d)	11/18/31				179	27					
B-113b-M-9	Los Angeles County Flood Control District, Test Well 3. N. of Gardena; 200 feet E. of Avalon Blvd., 2,600 feet N. of Nigger Slough Channel. Use: Not used. Casing: 6 inches. Sampled at depths of 15, 25, 35, 45, 55, 65, 75, 85, 95 and 105 feet, respectively, as drilling progressed.	835	11	*105	(d)	Apr., 1931				618	146					
					(d)	Apr., 1931		---		618	133					
					(d)	Apr., 1931				618	138					
					(d)	Apr., 1931				618	138					
					(d)	Apr., 1931				618	124					
					(d)	Apr., 1931				618	120					
					(d)	Apr., 1931				618	106					
					(d)	Apr., 1931		---		618	113					
					(d)	Apr., 1931				618	115					
					(d)	Apr., 1931				618	120					

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-114-M-9	Joe Lovia. SE. of Gardena; 0.34 mile N. of Carson St., 400 feet N. of 216th St., 100 feet E. of Grace Ave. Use: Domestic and irrigation. Casing: Dug well.	836	18	x36	(d)	6/16/31				249	658					
					526	11/14/31	454			250	758					
					873	4/11/32	491	0.28	44	250	870	1,356	0	331	190	580
					975	5/16/32	506	0.28	44	250	932	1,382	0	327	191	574
					1035	6/3/32	546	0.28		253	976					
					1136	7/5/32	563	0.30	42	253	1,021	1,596	0	408	223	638
					1259	8/8/32	589	0.34	40	253	1,065	1,702	0	438	243	637
					1348	8/31/32	570	0.34		268	1,056					
					1460	10/5/32	572	0.36		259	1,040					
					1525	11/2/32	579	0.35	45	262	1,065	1,503	0	316	246	688
					1567	12/6/32	572	0.43		265	1,101					
					1652	1/4/33	569	0.37	46	262	1,047	1,504	0	336	223	687
					1833	3/6/33	529	0.36	47	259	967	1,300	0	317	214	681
B-115-N-9	Ana-May Kreyssler. N. of Wilmington; 450 feet S. of Rocha St., 500 feet W. of Avalon Blvd. Use: Domestic. Casing: 12-10 inches. Perforated 454-554.	839	37	*x554	160	7/22/31	73.7		45	223	126	0	Tr.	53	17	76
B-115a-N-9	Southern California Edison Co., Ltd. NE. of Wilmington; 100 feet S. of Rocha St., 300 feet E. of Broad St. Use: Industrial. Casing: 12 inches. Perforated 461-550.	839A	38	*x550	(d)	6/12/31				212	32					
					(d)	11/12/31				222	34					
					1676	1/13/33	43.7	0.09		220	30					
B-115g-N-9	Richfield Oil Co., Well 3. W. of Long Beach; 1,060 feet N. of point on Rocha St., 1,700 feet W. of Alameda St., at refinery. Use: Industrial. Casing: 24 inches. Perforated 430-535; 560-605. L. A. D. of W. & P. No. 7-D-56.	858B	35	*x800	(f)	1/13/31			69	211	30	13		20	5	73
					156	7/22/31	38.8		64	198	25	4	Tr.	21	7	64
B-118-M-10	Jesus Cruz. S. of Compton; 50 feet S. of Los Angeles St. (Delano St.), 600 feet W. of Alameda St. Use: Domestic. Casing: 10 inches. W. S. P. 138, No. 839 Downey Quad.	875	34	x175	(d)	6/8/31				203	34					
					555	11/7/31	62.6			223	38					
B-119-M-9	J. P. Hoeptner. NE. of Wilmington; 1,000 feet S. of Carson St., 150 feet E. of Wilmington Ave., 0.4 mile N. of 223d St. Use: Domestic. Casing: 6 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample.	867	22	x200	(d)	6/8/31				268	37					
					157	7/22/31	63.5		40	274	38	59	0	54	18	64
					562	11/7/31	63.8			277	39					
					(d)	11/7/31				273	39					
B-119b-M-10	J. P. Hoeptner. NE. of Wilmington; 600 feet E. of Wilmington Ave., 900 feet S. of Carson St. Use: Irrigation. Casing: 10 inches. Perforated 257-265; 380-395.	867A	22	*x461	(d)	6/8/31				273	46					
					(d)	11/7/31				266	53					
B-119j-M-10	Dominguez Water Co., Well 2 (old series). S. of Compton; 10 feet S. of Carson St., 800 feet E. of Alameda St. Use: Capped well and not used. Casing: 12 inches. Perforated 105-119.	876F	28	*164	(d)	June 1931					39					
B-119k-M-10	Dominguez Water Co., Well 10 (new series). S. of Compton; 20 feet S. of Carson St., 1,030 feet E. of Alameda St. Use: Municipal. Casing: 16 inches. Perforated 100-135.	876G	28	*158	(d)	6/8/31				210	41					
					171	7/23/31	75.7		33	253	52	108	Tr.	83	17	62
					(d)	Dec. 1931				209	44					
B-119L-M-10	Dominguez Water Co., Well 8 (new series). S. of Compton; 20 feet S. of Carson St., 1,060 feet E. of Alameda St. Use: Municipal. Casing: 12 inches. Perforated 847-981.	876H	28	*1013	(d)	6/8/31				172	39					
					168	7/23/31	36.6		62	174	23	9	1	20	7	59
					(d)	Dec. 1931				200	25					
B-119q-M-10	P. M. Bangle. NE. of Long Beach; 100 feet S. of 223d St. (Wilmington St.), 300 feet E. of Alameda St. Use: Domestic. Casing: 5 inches. Perforated 107-136. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample.	877	24	*x136	(d)	6/8/31				212	32					
					(d)	11/7/31				221	45					
					547	11/7/31	66.1			226	45					
B-120f-N-10	Mr. Hiratsuki. NW. of Long Beach; 0.20 mile N. of Willow St., 0.25 mile W. of Webster Ave., 0.5 mile W. of Santa Fe Ave., Use: Irrigation. Casing: 8 inches. Perforated 140-147.	879B	21	*165	(d)	6/19/31				352	76					
					(d)	Nov. 1931				385	92					
B-120h-N-10	Chinese tenant. NW. of Long Beach; 0.08 mile S. of Willow St., 0.25 mile W. of Webster Ave., 0.5 mile W. of Santa Fe Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 107-130; 140-145. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample.	879	17	*x170	(d)	10/24/29				282	53					
					(d)	6/12/31				300	31					
					158	7/22/31	87.9		34	320	64	116	0	88	24	76
					551	11/7/31	87.5			311	62					
					(d)	11/7/31				300	71					
					(d)	5/13/32				317	78					
B-124-M-10	Oil Operators, Inc., Test Well 1. NW. of Long Beach; 800 feet N. of Wardlow Road, 0.25 mile E. of Santa Fe Ave. (Perris Ave.), 500 feet W. of B. 127b M. 10. Open casing in field. Use: Not used. Casing: 8 inches. Perforated 90-112. Samples on 12/9/30 and 6/23/31 were from surface of water. Samples on 10/5/31 were from depths of 45 and 118 feet, respectively.	887C	27	*x134	(d)	12/9/30					72					
					(d)	6/23/31				342	80					
					399	10/5/31	75.9	0.20		345	75					
					400	10/5/31	1,055	1.69	46	58	3,639	36	0	747	218	1,075
B-124f-M-10	Mr. Mulhorn. NW. of Long Beach; 0.25 mile S. of 223d St., 0.2 mile W. of Santa Fe Ave. Use: Domestic and irrigation. Perforated 102-127.	887	26	*128	(d)	Oct. 1929				332	57					
					(d)	12/9/30				307	72					
					(d)	6/19/31				461	98					

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-124g-M-10	Mrs. Myers. NW. of Long Beach; 50 feet E. of Denver Ave., 300 feet S. of 223d St. (Wilmington St.), 0.22 mile E. of Santa Fe Ave. Windmill. Use: Domestic. Casing: 2 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample.	887A	29	110	(d)	Oct. 1929				307	153					
					(d)	12/ 9/30				303	966					
					(d)	6/ 8/31				288	1,155					
					(d)	11/ 7/31				303	1,598					
					546	11/ 7/31	536			299	1,622					
					(d)	5/14/32				298	1,381					
					1654	12/19/32	641	1.22		311	1,981					
B-124h-M-10	Mr. Kawaichi. NW. of Long Beach; 300 feet N. of 223d St., 0.22 mile E. of Santa Fe Ave. Use: Irrigation. Gravel 86-109. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample.	887B	30	*130	(d)	Oct. 1929				332	56					
					(d)	12/15/30				311	185					
					(d)	6/ 8/31				352	72					
					(d)	11/ 7/31				337	69					
					550	11/ 7/31	92.6			332	71					
B-124j-M-10	S. D. Wilson. NW. of Long Beach; 700 feet S. of 223d St., 500 feet W. of Santa Fe Ave. (Perris Ave.), near power line. Use: Irrigation, changing effect on crops noted by tenants. Casing: 12 inches. Gravel 91-108. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample.	887E	26	*125	(d)	6/19/31				476	91					
					(d)	11/ 7/31				431	477					
					552	11/ 7/31	229			445	488					
					(d)	5/14/32				449	511					
B-124k-M-10	R. W. Poindexter. NW. of Long Beach; 25 feet S. of 223d St. (Wilmington St.), 1,000 feet E. of Santa Fe Ave. (Perris Ave.). Use: Irrigation. Casing: 8 inches.	887F	29	120	(f)	3/17/30				263	264	96		180	31	[c]51
					(d)	6/18/31				300	353					
					(d)	11/18/31				312	501					
					852	3/25/32	201	0.56	40	329	440	125	0	163	53	191
					976	5/13/32	229	0.65	44	296	554	101	0	164	54	224
					1023	6/ 1/32	205	0.65		314	460					
					1137	7/ 5/32	220	0.52		348	488					
					1260	8/ 8/32	184	0.53	46	409	336	126	0	133	43	199
					1349	9/ 7/32	203	0.53		378	412					
					1461	10/ 5/32	280	0.70	32	293	760	104	0	317	73	233
					1526	11/ 3/32	260	0.74	43	327	628	104	0	192	57	247
					1568	12/ 6/32	280	0.78		278	728					
					1655	1/ 4/33	281	0.87	44	281	731	115	0	206	66	283
					1740	2/ 3/33	282	0.91		308	692					
					1834	3/ 6/33	247	0.67		332	579					
B-125-N-10	Chinese tenant. NW. of Long Beach; 40 feet S. of 32d St., extended, 600 feet W. of Santa Fe Ave. (Perris Ave.). Use: Irrigation. Casing: 12 inches.	888A	23	x	(d)	12/15/30				330	124					
					(d)	6/ 8/31				505	146					
					549	11/ 7/31	179			522	217					
					(d)	5/13/32				498	493					
					1656	12/19/32	558	1.18		497	1,576					
B-125a-M-10	Bell Ranch. NW. of Long Beach; 50 feet N. of Wardlow St. at head of Delta St. Use: Domestic. Casing: 4 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample.	888	26		(d)	Oct. 1929				[a]445	242					
					(d)	12/ 9/30				[a]300	357					
					(d)	6/ 8/31				438	254					
					(d)	11/ 7/31				478	192					
					544	11/ 7/31	159			488	194					
B-125d-N-10	Manuel Pimentell. Long Beach; 660 feet E. of Santa Fe Ave. (Perris Road), 660 feet S. of Spring St. Use: Irrigation. Casing: 12 inches.	888D	21	x135	(d)	10/17/29				522	401					
B-125i-N-10	City of Long Beach, Silverado Well 1. NW. of Long Beach; 50 feet S. of 32d St., 1,300 feet E. of Santa Fe Ave. Use: Proposed municipal, but not used. Casing: 26 inches. Perforated 596-900. Samples on 7/31/31, 8/4/31, 12/9/31 and 2/8/32 are from depths of 710, 984, 51, 250, 871, and 250 feet respectively. Those on 8/18/31, 8/19/31, and 1/7/32 are from pumping tests.	888H	27	*1074	(j)	7/31/31			65	222	131	29		41	9	[c]118
					(j)	8/ 4/31			82	188	27	0		13	0	[c]73
					(j)	8/18/31			62	128	37	39		26	4	[c]60
					(j)	8/19/31			65	150	44	40		26	5	[c]72
					(j)	12/ 9/31			41	559	96	243		135	39	[c]161
					(j)	12/ 9/31			54	473	927	133		238	61	[c]456
					(j)	12/ 9/31			55	430	807	113		206	53	[c]403
					(j)	1/ 7/32			56	449	840	148		209	56	[c]441
					(j)	2/ 8/32			56	490	775	156		208	52	[c]425
B-126-N-10	Irwin Stewart. NW. of Long Beach; 200 feet W. of Santa Fe Ave. (Perris Ave.), 0.25 mile N. of Willow St. Use: Irrigation. Casing: 5 inches. L. A. C. F. C. D. and D. W. R. analyses on 11/7/31 are from same sample.	889B	21	x115	(d)	Oct. 1929				489	291					
					(d)	12/ 9/30				495	291					
					(d)	6/12/31				478	266					
					(d)	11/ 7/31				446	259					
					553	11/ 7/31	203			464	266					
					853	3/21/32	200	0.30	42	509	238	351	0	187	46	218
					963	5/11/32	221	0.30	44	485	284	408	1	189	50	243
					1024	6/ 1/32	229	0.28		561	286					
					1138	7/ 5/32	229	0.28		555	284					
					1261	8/ 8/32	231	0.29	42	549	282	413	1	210	51	248
					1350	9/ 7/32	219	0.30		494	277					
					1462	10/ 5/32	229	0.32		509	273					
					1527	11/ 2/32	232	0.32	42	543	280	422	1	209	51	244
					1569	12/ 6/32	224	0.35		503	284					
					1657	1/ 4/33	236	0.30	43	567	280	436	0	217	51	265

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-126b-N-10	Irwin Stewart. NW. of Long Beach; 800 feet W. of Santa Fe Ave. (Perris Ave.), 0.25 mile N. of Willow St., 50 feet W. of irrigation well. Use: Irrigation. Casing: 14 inches. Perforated 103-120. Samples on 11/17/31 were from surface of water and near bottom of well.	889A	20	*128	(d)	6/12/31				283	257					
					(d)	11/17/31				413	273					
					(d)	11/17/31				141	272					
B-126e-N-10	Mr. Peterson. Long Beach; 50 feet N. of 25th St., 125 feet E. of Santa Fe Ave. (Perris Ave.). Use: Irrigation. Casing: 8 inches.	889C	20	x85	(d)	Oct. 1929				331	67					
					(d)	12/ 9/30				247	136					
					(d)	6/12/31				304	146					
					(d)	Dec. 1931				325	71					
					(d)	5/13/32				283	90					
B-126d-N-10	H. & J. Maybury Co. NW. of Long Beach; 800 feet S. of Spring St., 600 feet E. of Santa Fe Ave. (Perris Ave.). Use: Not used. Casing: 12 inches. Perforated 98-110; 120-131. Pump removed in May, 1932.	889D	21	*145	(d)	10/17/29					46					
					(d)	12/ 9/30				376	312					
					(d)	6/19/31				286	161					
B-126f-N-10	Oil Operators, Inc., Test Well 4. Long Beach; 65 feet S. of Willow St., 45 feet E. of Gale Ave. Use: Test well, not used. Casing: 8 inches. Perforated 105-120. Samples on 10/5/31 were from depths of 93 and 118 feet, respectively.	899	19	*x131	(d)	12/12/30				273	250					
					(d)	6/23/31				139	234					
					397	10/ 5/31	115	0.13		421	240					
					398	10/ 5/31	186	0.40	36	601	219	249	0	188	49	175
B-127-M-10	Fitzgerald Engineering & Construction Co., Test Well 3. NW. of Long Beach; on Los Angeles River flood control levee 10 feet W. of tracks, 1,140 feet N. of 223d St. Use: Not used. Casing: 8 inches. Perforated 143-145.	897I	31	*x164	(d)	12/ 9/30				70	866					
B-127a-M-10	Dominguez Ranch. NW. of Long Beach; 300 feet S. of Carson St., 1,000 feet W. of Los Angeles River. Use: Irrigation. Casing: 12 inches. Perforated 85-101; 190-209.	896	31	*x230	(d)	Oct. 1929				275	67					
					(d)	12/ 9/30				[a]173	21					
B-127b-M-10	Jesus Cruz. S. of Compton; 70 feet S. of Dominguez St., 1,000 feet W. of P. E. Ry. along Los Angeles River. Use: Domestic. Casing: 12 inches.	896A	35	x127	(d)	Oct. 1929				222	50					
					(d)	12/ 9/30				268	71					
					(d)	6/ 8/31				239	51					
					545	11/ 7/31	76.7			250	55					
B-127c-M-10	Owner unknown. S. of Compton; 60 feet N. of Dominguez St., 600 feet W. of Los Angeles River. Use: Domestic and stock. Casing: 12 inches.	896B	36	x	(d)	10/17/29				176	28					
					(d)	12/ 9/30				233	51					
					(d)	6/ 8/31				174	25					
					548	11/ 7/31	37.7			183	27					
B-127e-M-10	H. E. Dickson. NW. of Long Beach; 0.35 mile E. of Santa Fe Ave. on S. line of 223d St. (Wilmington St.), 0.15 mile W. of west levee of Los Angeles River. Use: Not used since 4/24/30. Casing: 6 inches.	897	28	x	(d)	Oct. 1929				307	973					
B-127g-M-10	Bell Ranch. NW. of Long Beach; 575 feet N. of Wardlow St. at head of Fashion St., 0.38 mile E. of Perris Ave., 25 feet S. of new well. Use: Not used. Abandoned in 1928 on account of salt. Casing: 12 inches.	897C	27	x	(d)	Oct. 1929				85	2,210					
					(d)	12/ 9/30				170	29					
					(d)	6/ 8/31				169	25					
B-127h-M-10	Bell Ranch. NW. of Long Beach; 600 feet N. of Wardlow St. at head of Fashion St., 0.38 mile E. of Perris Ave. Use: Irrigation. Casing: 16 inches. Perforated 800-900.	897D	27	*x900	(d)	Oct. 1929					1,314					
					(d)	12/ 9/30				164	28					
					(d)	6/ 8/31				163	23					
					155	7/22/31	40.7		68	168	21	28	2	24	2	67
					554	11/ 7/31	40.1			165	21					
					849	3/21/32	40.0	0.14	61	168	23	36	0	24	6	62
					964	5/11/32	40.7	0.14	63	168	20	30	0	24	5	60
					1025	6/ 1/32	40.4	0.12		[a]171	21					
					1139	7/ 5/32	40.8	0.10		168	23					
					1262	8/ 8/32	41.7	0.15	61	171	25	36	0	23	7	62
					1351	9/ 7/32	41.0	0.14		168	23					
					1463	10/ 5/32	41.1	0.15		165	21					
					1528	11/ 2/32	40.6	0.14	62	165	21	31	Tr.	24	5	61
					1570	12/ 6/32	39.9	0.14		165	21					
					1658	1/ 4/33	41.4	0.12	63	171	23	34	Tr.	23	5	62
					1742	2/ 3/33	40.2	0.20		165	21					
					1835	3/ 6/33	40.8	0.13		168	21					
B-127i-M-10	Fitzgerald Engineering & Construction Co., Test Well 2. NW. of Long Beach; 800 feet N. of Wardlow St., 2,500 feet E. of Santa Fe Ave. (Perris Ave.), 20 feet W. of dirt road extension of Pico Ave. Use: Test well for Oil Operators, Inc. Casing: 8 inches. Perforated 65-88. Sample on 11/17/31 was from surface of water.	897H	27	*x200	(d)	12/ 9/30				98	4,460					
					(d)	11/17/31				[a]543	4,260					

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium (Na x 100 / Ca + Mg + Na)	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-127j-M-10	H. E. Dickson. NW. of Long Beach; 190 feet S. of 223d St., 0.1 mile N. of west levee of Los Angeles River. Use: Not used. Casing: 6 inches. Samples on 11/17/31 were from surface of water and depth of 70 feet, respectively.	897J	28	x71	(d)	12/ 9/30				a343	53					
					(d)	6/23/31				a223	67					
					(d)	11/17/31				a241	78					
					(d)	11/17/31				a321	78					
B-130-N-7	Weston Ranch, Well 5a. NW. of Wilmington; 40 feet N. of Redondo-Wilmington Blvd., 0.3 mile E. of Hawthorne Ave., 50 feet W. of draw, 20 feet W. of B-130b-N-7. Use: Irrigation. Casing: 14 inches. Perforated 405-423.	250A	148	*x500	1588	11/30/32	111	0.31		461	126					
B-130a-N-7	Weston Investment Co., Well 6. NW. of Wilmington; 25 feet E. of Madison St., 800 feet S. of Redondo-Wilmington Blvd. Use: Irrigation. Casing: 14 inches. Perforated 290-306; 410-415; 424-445; 470-500.	250	170	*500	237	8/19/31	103.1		39	427	116	40	0	74	38	99
B-131-N-8	Los Angeles County Water District No. 13, Well 1. NW. of Wilmington; 25 feet E. of Cypress St., 900 feet S. of Redondo-Wilmington Blvd. Use: Municipal.	271	150	x	167	7/23/31	97.8		60	406	123	2	0	38	23	130
					(d)	4/21/32				376	135					
B-133-N-8	Palos Verdes Water Co., Well 1. W. of Wilmington; 200 feet N. of Anaheim St., 75 feet E. of P. E. Ry. Use: Municipal. Casing: 26 inches. Perforated 208-214; 332-610.	301	50	*x610	238	8/19/31	68.8		76	339	64	1	0	19	10	127
					(d)	11/ 5/31				120	122					
B-133a-N-8	Palos Verdes Water Co., Well 1A. W. of Wilmington; 200 feet N. of Anaheim St., 245 feet E. of P. E. Ry., 170 feet E. of Well 1. Use: Municipal. Casing: 26 inches. Perforated 400-550. Samples on 11/10/31 and 2/8/33 were from depth of 175 feet and surface of water, respectively.	301A	50	*x793	(d)	11/10/31				110	86					
					1804	2/ 8/33	67.2	0.32		299	69					
B-133b-O-8	Royal Palms Golf Club, Well 2. S. of Wilmington; 0.25 mile N. of Channel St., 1,000 feet W. of Gaffey Ave. Use: Irrigation. Casing: 16 inches. L. A. D. of W. & P. No. 3-A-16.	304	8	x208	(f)	5/23/30			36	346	292	79		126	45	c128
					(d)	12/12/30				549	339					
					(d)	6/23/31				525	275					
					(d)	Dec., 1931				507	270					
					841	3/22/32	187	0.48	44	546	304	119	1	120	68	207
B-133d-O-8	Royal Palms Golf Club, Well 3. S. of Wilmington; 0.25 mile N. of Channel St., 1,200 feet W. of Gaffey Ave., 200 feet W. of Well 2. Use: Irrigation. L. A. D. of W. & P. No. 3-A-14.	304B	10	200	(f)	5/23/30			39	473	255	150		166	33	c163
					(f)	10/30/30			42	485	372	94		145	36	c169
					(f)	3/19/31			45	414	275	161		127	42	c187
B-133f-N-9	Palos Verdes Estates. Wilmington; 0.43 mile E. of Frigate Ave., 250 feet N. of W. Anaheim St., 0.65 mile E. of P. E. Ry., E. of Gaffey St. Use: Not used. Casing: 24 inches. Gravel 280-300; 314-318; 624-682; 746-762. Samples on 9/29/31 were from depths of 300 and 630 feet, respectively.	312	30	*x910	(d)	Oct., 1929				373	419					
					(d)	12/12/30				384	625					
					(d)	6/23/31				413	902					
					370	9/29/31	605	1.32	71	668	1,740	1	0	210	82	979
					371	9/29/31	602	1.30		674	1,722					
B-133g-N-8	Palos Verdes Water Co., Well 1-B. Wilmington; 200 feet N. of Anaheim St., 600 feet SE. of P. E. Ry. measured from point on P. E. Ry. 200 feet N. of Anaheim St. Use: Irrigation. Casing: 16 inches, in bottom of 71-foot pit. Perforated 300-345.	301C	45	*500	(f)	11/ 1/32	82.9	0.47	69	357	97	1	0	29	14	c139
B-133i-N-9	City of Los Angeles, Lomitas Well 4. W. of Wilmington; 0.56 mile W. from Frigate Ave. along L St., extended, thence 0.12 mile S., 10 feet W. of angle in private road. Use: Municipal. Casing: 16 inches.	311	20	716	(f)	3/19/31			71	295	95	3		37	4	c124
					842	3/25/32	66.5	0.36	76	311	69	0	0	18	9	123
B-133k-N-9	Union Oil Co. Wilmington; 0.23 miles W. of Frigate Ave., 280 feet S. of E St. Use: Industrial. L. A. D. of W. & P. No. 3-A-13.	312A	25	1,018	(f)	10/15/29			89	510	450	17		25	14	c437
					(f)	11/15/29			88	466	445	1		36	7	c393
					(f)	1/ 6/30			90	460	445	1		25	10	c414
					(f)	2/28/30			91	453	460	7		30	4	c430
					(f)	4/28/30			89	453	495	5		31	11	c438
					(f)	10/30/30			90	435	426	10		28	7	c399
					(d)	2/15/32				535	488					
					843	3/22/32	219	1.65	87	528	483	1	0	27	19	431
					961	5/11/32	220	1.74	87	528	524	8	0	26	19	433
					1031	6/ 3/32	221	1.75		534	488					
					1128	7/ 5/32	221	1.72		531	471					
					1252	8/ 8/32	225	1.72	88	528	478	Tr.	0	27	15	434
					1352	9/ 7/32	223	1.73		525	472					
					1452	10/ 4/32	223	1.74		522	474					
					1517	11/ 2/32	218	1.71	89	528	471	0	0	25	17	467
					1560	12/ 6/32	217	1.80		516	474					
					1628	1/ 4/33	221	1.86	86	494	472	0	0	28	19	432
					1729	2/ 3/33	219	1.77		528	471					
					1824	3/ 6/33	219	1.71		525	465					

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-133m-N-8	Louis Dallapi. NW. of Wilmington; 600 feet S. of S St. (Lomita Blvd.), 50 feet E. of Broadwell St. Use: Domestic. Casing: 7 inches.	300	57	307	(d)	7/15/31				227	23					
					(d)	11/12/31				224	25					
					(d)	5/ 7/32				230	25					
					1671	1/13/33	41.9	0.12		229	16					
B-133n-N-8	G. Lorensoni. NW. of Wilmington; 100 feet W. of Broadwell St., 200 feet N. of 253d St. Use: Domestic. Casing: 6 inches.	300A	58	105	(d)	Dec., 1931				310	160					
					(d)	5/10/32				290	173					
					1672	1/13/33	102	0.19	50	336	148	12	1	75	18	122
B-133o-N-9	City of Los Angeles, Lomitas Well 2. W. of Wilmington; 0.56 mile W. from Frigate Ave. along L St., extended, thence 0.12 mile S., thence 0.14 mile SW., 50 feet SE. of large building, near north edge of Bixby Slough. Use: Municipal. Casing: 16 inches.	311B	20	509	(d)	2/26/32				[a]336	60					
B-134-N-9	Robert Tracy. Wilmington; 100 feet W. of Bayview Ave., 150 feet S. of Q St. Use: Domestic. Casing: 5 inches.	320	38	x110	(d)	6/23/31				209	32					
					519	11/12/31	43.1			223	34					
					1673	1/13/33	74.0	0.09	46	250	114	0	Tr.	54	16	78
B-134h-N-9	City of Los Angeles, Wilmington Pumping Plant 1. Wilmington; 240 feet S. of Grant St., 90 feet N. of J St., 100 feet E. of Eubank Ave., 210 feet S. of Well 5. Use: Municipal.	341E	25	600	172	7/23/31	74.5		82	271	101	Tr.	0	14	9	145
B-135-N-9	Consolidated Lumber Co. Wilmington; 500 feet W. of Badger Ave., 300 feet S. of Anaheim St., 12 feet E. of boiler house in Consolidated Lumber Co. yard. Use: Not used. Casing: 12 inches. Gravel 145-159; 162-169; 172-179. Samples on 9/29/31 were from depths of 150, 175 and 260 feet, respectively.	351A	12	*x320	(d)	Oct., 1929				248	64					
					(d)	12/12/30				203	71					
					(d)	6/23/31				164	110					
					365	9/29/31	90.6	0.23		[a]143	208					
					366	9/29/31	497	0.35		[a]113	1,598					
					367	9/29/31	540	0.41	72	[a]107	1,722	5	0	42	146	846
B-135a-N-9	Owner unknown. Wilmington; 100 feet S. of Grant St., 150 feet E. of Badger St. Use: Abandoned, filled in. Casing: Dug well.	351	21	x	(d)	Oct., 1929				288	476					
B-135c-N-10	Long Beach Salt Co. W. of Long Beach; 2,600 feet S. of Anaheim St., 3,200 feet E. of Badger Ave., 75 feet NE. of U. P. R. R. tracks on W. side of Long Beach Salt Co. building. Use: Industrial. Casing: 4 inches.	362	5	x116	(d)	Oct., 1929				281	1,250					
					(d)	12/12/30				281	1,314					
					(d)	6/12/31					1,324					
					(d)	Dec., 1931				291	1,328					
					(d)	5/ 2/32				34	146					
					1730	1/27/33	558	0.35	70	296	1,822	66	0	88	143	860
B-135e-N-10	Mexican tenants. W. of Long Beach; 0.13 mile S. of Anaheim St., 50 feet W. of dirt road to Long Beach Salt Co. plant (which is 0.67 mile W. of Santa Fe Ave.), between two Mexican cabins. Use: Domestic. Casing: 2 inches. L. A. D. of W. & P. No. 3-B-17.	371	13	101	(d)	Oct., 1929				221	46					
					(d)	6/12/30				205	402					
					(f)	10/28/30			63	186	266	12		69	7	[c]156
					(d)	12/12/30				200	291					
					(f)	2/27/31			69	201	463	9		31	43	[c]233
					(d)	Dec., 1931				215	586					
					844	3/22/32	244	0.13	45	210	708	0	0	88	103	243
					845	3/22/32	243			210	701					
					965	5/11/32	260	0.19	43	217	772	0	0	94	106	235
					1019	6/ 1/32	262	0.14		217	772					
					1129	7/ 5/32	267	0.19		210	772					
					1253	8/ 8/32	301	0.15	45	217	868	0	0	108	119	284
					1353	9/ 7/32	314	0.22		214	932					
					1453	10/ 4/32	319	0.19		207	937					
					1518	11/ 2/32	340	0.16	44	217	985	1	0	128	135	309
					1561	12/ 6/32	345	0.21		220	1,039					
					1631	1/ 4/33	364	0.12	42	214	1,079	0	0	137	159	331
					1731	2/ 3/33	367	0.20		229	1,136					
					1825	3/ 6/33	388	0.14		223	1,181					
					1826	3/13/33	387	0.16		229	1,154					
B-135g-O-10	Southern California Edison Co., Ltd. W. of Long Beach on Terminal Island; 200 feet N. of U. P. R. R., 500 feet W. of Long Beach Harbor entrance. Between boiler and generator units. Use: Industrial. Casing: 14 inches.	373A	10	250	1805	2/15/33	1,025	0.76		351	3,106					

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
B-136-N-10	Pioneer Pacific Worsted Mills. Long Beach; 100 feet N. of 17th St., 25 feet E. of Nadeau Ave. Casing in shallow pump pit. Use: Not used. Casing: 14 inches. Gravel 78–92; 103–123; 135–250. City water passes through centrifugal pump to mills. Valve below pump keeps city water out of well. Sample on 9/28/31 was from depth of 80 feet. Samples on 10/5/31 were from depths of 85, 121 and 175 feet, respectively. L. A. D. of W. & P. No. 3-B-5.	381	10	*x250	(d)	Oct., 1929				170	43					
					(f)	10/15/29			84	190	50	27		12	2	c94
					(f)	11/15/29			85	a155	70	42		16	0	c105
					(f)	3/ 7/30			65	167	28	18		16	7	c58
					(f)	5/ 5/30			65	167	30	12		19	5	c57
					(f)	6/ 5/30			75	157	36	15		18	1	c68
					(f)	11/14/30			80	174	34	12		16	0	c75
					(d)	12/ 9/30				176	32					
					(d)	6/23/31				182	26					
					368	9/28/31	38 0	0 08		168	32					
					394	10/ 5/31	38 7	0 09		a164	39					
					395	10/ 5/31	117	0 11		339	126					
					396	10/ 5/31	116	0 11		302	126					
B-136d-N-10	Long Beach Gas Co. Long Beach; 160 feet S. of S. P. R. R., 0.25 miles W. of Perris Ave., under manhole cover in driveway of Long Beach Gas Co. yard, 100 feet W. of meter shop. Use: Industrial. Casing: 10 inches. L. A. D. of W. & P. No. 3-B-20.	381A	10	x137	(i)	1/ 8/23			63		43	9		21	13	c81
					(d)	Oct., 1929				243	220					
					(f)	10/15/29			63	261	250	18		51	21	c170
					(f)	11/15/29			58	261	230	20		52	26	c148
					(f)	1/ 6/30			56	250	238	24		68	19	c146
					(f)	3/17/30			60	a250	228	24		50	23	c153
					(f)	4/28/30			57	a238	224	20		56	21	c140
					(d)	12/ 9/30				263	238					
					(d)	6/12/31				258	351					
					1806	2/15/33	157	0 18	55	253	364	16	1	61	45	186
B-136h-N-10	Southern California Edison Co., Ltd., Well 1. Long Beach; 600 feet S. of Anaheim St., 1500 feet E. of Perris Ave., S. of S. P. R. R. and E. of slough, near NW. corner of Long Beach Gas Co. yard. Use: Industrial. Casing: 12 inches. Gravel 119–137. L. A. D. of W. & P. No. 3-B-18	381E	10	*x201	(i)	1/ 8/23			61		40	40		27	11	c82
					(f)	1/ 6/30			50	a226	234	17		66	25	c122
					(f)	3/17/30			47	a226	244	30		66	32	c121
					(f)	4/28/30			56	a238	265	26		68	22	c155
					(f)	6/ 5/30			56	230	232	20		69	16	c137
					(f)	10/28/30			71	223	250	26		64	0	c185
					(f)	11/14/30			61	a223	228	23		54	18	c147
					(f)	2/11/31			65	a236	212	38		48	16	c159
					(f)	3/20/31			62	a270	327	22		58	30	c201
					175	7/23/31	125 3		50	250	270	19	0	53	40	136
B-137-N-10	Stewart Curtis Packers, Inc., Well 3. Long Beach; 300 feet E. of Channel 2, Long Beach Harbor, in yard of packing plant, 12 feet W. of B-137c-N-10. Use: Not used. Casing: 12 inches. Perforated 83–107. L. A. D. of W. & P. No. 3-B-22.	392B	11	*x125	(f)	6/ 5/30			76	255	7,300	972		619	275	c4,063
B-137c-N-10	Stewart Curtis Packers, Inc., Well 4. Long Beach; 300 feet W. of Pico St., 125 feet N. of 7th St., 312 feet E. of Channel 2, Long Beach Harbor, 12 feet E. of B-137-N-10, in yard of packing company. Use: Industrial. Casing: 20 inches. Perforated 87–109. L. A. D. of W. & P. No. 3-B-23.	392C	10	*124	(d)	Oct., 1929				287	4,924					
					(f)	10/15/29			67	332	4,900	663		420	370	c2,437
					(f)	11/15/29			63	292	4,950	683		562	382	c2,279
					(f)	1/ 6/30			77	264	4,800	725		417	181	c2,737
					(f)	4/28/30			73	274	5,750	774		588	244	c3,065
					(f)	10/28/30			71	248	7,300	847		559	467	c3,707
					(f)	11/14/30			70	261	7,000	997		527	479	c3,603
					(d)	12/ 9/30				293	7,437					
					(d)	7/15/31				317	8,822					
					(d)	Dec., 1931				366	8,023					
					966	5/11/32	2,690	1 78	71	332	9,674	1,196	0	482	732	4,845
					1020	6/ 1/32	2,799	1 81	75	317	10,029	1,294		492	630	5,177
					1130	7/ 5/32	2,533	1 46		293	8,697					
					1254	8/ 8/32	2,132	1 33	71	332	7,278	817	0	370	565	3,684
					1354	9/ 7/32	2,355	1 58		372	8,076					
					1454	10/ 4/32	2,445	1 56		327	8,431					
					1519	11/ 2/32	3,035	1 98	74	290	11,005	1,400	0	493	765	744
					1562	12/ 6/32	2,751	1 88		302	9,674					
					1649	1/ 4/33	3,190	2 04	74	482	11,626	1,277	0	485	816	6,035
					1732	2/ 3/33	2,267	1 42	73	458	7,988	822	0	362	554	4,036
					1827	3/ 6/33	2,457	1 53		665	8,520					
C-910n-O-12	Associated Oil Co. Seal Beach; 0.6 mile NE. of State Highway (Coast) bridge over San Gabriel River, 500 feet SE. of E. levee of river. Use: Not used. Casing: 8 inches.	494A	7	x	(k)	11/10/30				a185	16					
					(k)	1/26/31				a200	12					
					(k)	3/ 2/31				a205	14					
					(k)	3/20/31				a204	16					
					(k)	6/18/31				a221	20					
					(k)	7/28/31				a218	20					

TABLE 14. WELLS IN REDONDO-LONG BEACH AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-9H3c-N 11	Peoples Ice Co. Long Beach; 100 feet N. of Anaheim St., 100 feet W. of head of Freeman Ave., in 32-foot pit near south entrance of engine room. Use: Industrial, but not for freezing. Casing: 5 inches.	441	38	x130	([d])	Oct., 1929				208	394		-			
					([d])	12/ 9/30				179	295		- -			
					([d])	7/15/31				298	366					
					515	11/11/31	187			308	432					
					846	3/24/32	187	0.24	47	305	437	53	0	116	50	205
					967	5/11/32	192	0.17	47	308	444	54	Tr.	117	50	201
					1021	6/ 1/32	190	0.21		293	442			- -		
					1131	7/ 5/32	174	0.21		183	458					
					1255	8/ 8/32	173	0.15	62	146	464	3	0	58	37	225
					1355	9/ 7/32	187	0.17		113	513					
					1455	10/ 4/32	174	0.20		110	474					
					1520	11/ 2/32	181	0.22	64	113	504	7	0	56	38	238
					1563	12/ 6/32	174	0.21		119	499					
					1733	2/ 3/33	196	0.34	58	210	511	26	0	75	50	248
					1828	3/ 6/33	186	0.23		113	518					

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.
[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by Los Angeles County Flood Control District, Los Angeles.
[e] Analysis by Standard Oil Co. of California.
[f] Analysis by City of Los Angeles, Department of Water and Power Laboratory; Carl Wilson, Director.
[g] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[h] Analysis by Smith-Emery Co., Los Angeles.
[i] Analysis by Arthur R. Maas Laboratories, Los Angeles.
[j] Analysis by City of Long Beach, Engineering Laboratory.
[k] Analysis by Orange County Flood Control District, Santa Ana, California.
[l] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 15. SURFACE WATERS IN REDONDO-LONG BEACH AREA

Well number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million)						
										Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S897-M-10	Los Angeles River. NW. of Long Beach. Sampled just below 223d St. (Wilmington St.), opposite Oil Operators, Inc. Surface flow and industrial waste.	S897	21		854	3/24/32	3,742	31.0	88	723	14,289	16	0	504	265	8,163
S390-N-10	Los Angeles River. W. of Long Beach. [illegible] Bridge. Surface flow.	S390	8		(d)	10/26/32			61	312	332	291	....	94	40	[c]289
S824-M-9	Nigger Slough. SE. of Gardena. Sampled at Main St. (Harbor Blvd.) crossing. Surface drainage.	S824	11		872	4/11/32	482	3.45	75	[a]314	1,314	264	0	103	89	879
S835-M-9	Nigger Slough. SE. of Gardena. Sampled at Avalon Blvd. Bridge. Nearly all industrial waste.	S835	10		875	4/11/32	771	4.29	90	512	1,576	1,112	0	83	40	[b]1,764
S846-M-9	Nigger Slough. NW. of Long Beach. Sampled at bridge 385, 0.25 mile N. of Carson St., 0.34 mile E. of Avalon Blvd.	S846	15	.....	(d)	3/12/32	.....	.....	88	0	1,440	623	.....	77	31	1,085
S869-N-10	Nigger Slough. NW. of Long Beach. Sampled 150 feet N. of Alameda St. Bridge, which is 300 feet N. of Willow St.	S869	10	.....	(d)	2/27/32	.....	.....	68	123	201	209	.....	46	19	189
S1353-J-7	Pan California Oil Co., Robert Bromberg, Receiver. Inglewood; 165 feet S. of Regent St., 453 feet W. of Prairie St. Oil well waste water.	S1353	150	.....	1295	8/30/32	5,330	51.2	.....	[a]554	19,347	.....	.....	.....	.....	.....

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sodium 1120 ppm. Potassium 644 ppm.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by City of Long Beach, Engineering Laboratory.

TABLE 16. WELLS IN SAN BERNARDINO AREA

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
D-1173b-E 25	Glen Helen Ranch, Well 2. NW. of San Bernardino; 600 feet SE. of Cajon Road, 0.65 mile SW. of A. T. & S. F. Ry., 930 feet SW. of Old County Road, SW. of dairy house. Use: Irrigation, artesian. Casing: 12 inches.	19499B	2,017	380	1309	9/ 2/32	46 1	0 04	22	192	11	52	2	39	22	24
D-1182c-E-26	Fontana Union Water Co., F. U. Well 13. NW. of San Bernardino; 1.0 mile NE. of Riverside Ave. from point 0.38 mile SE. of Linden Ave. Use: Irrigation and domestic. Casing: 20 inches. Gravel 165-495.	18713	1,550	*x551	620 1321	1/ 5/32 9/ 2/32	22 5 22 7	0 02 0 12	21 21	122 122	4 5	10 10	2 2	28 28	7 7	13 12
D-1188h-F-26	Muscoy Mutual Water Co., Well 1. NW. of San Bernardino; 0.24 mile N. of Ogden St., 0.35 mile W. of Gray St. Use: Domestic and irrigation. Casing: 20 inches. Perforated 69-302.	18733	1,493	*x351	1324	9/ 2/32	47 3	0.12	14	235	7	39	1	64	15	16
D-1188i-F-26	Lytle Creek Water and Improvement Co., Upper Group New Well 4. NW. of San Bernardino; 2,000 feet NE. of Riverside Ave. from point 5,000 feet NW. of bend 900 feet N. of Highland Ave., 30 feet SE. of Upper Group Old Well 4. Use: Irrigation. Casing: 20 inches. Perforated 200-630.	18714A	1,475	*x647	1322	9/ 2/32	30 1	0 05	17	168	2	16	1	44	8	13
D-1189a-F-26	Lytle Creek Water and Improvement Co., Lower Group Well 2. NW. of San Bernardino; 3,000 feet NE. of Riverside Ave. from point 1,900 feet NW. of bend, 900 feet N. of Highland Ave. Use: Irrigation. Casing: 20 inches. Perforated 104-196; 206-234; 264-300; 306-390.	18725A	1,410	*x410	1323	9/ 2/32	29 3	0 07	16	168	2	17	1	43	7	12
D-1191d-F-26	Citizens Land and Water Co., Lord Well 6. NW. of San Bernardino; 1,880 feet S. of Highland Ave., 2,560 feet E. of Eucalyptus Ave. Use: Formerly irrigation, abandoned in 1925. Casing: 12 inches. Gravel 20-250; 428-448.	18756	1,265	*500	(d)	Nov. 1918			19	156	9	12	4	46	6	15
D-1191f-F-26	Citizens Land and Water Co., Lord Well 1. NW. of San Bernardino; 2,650 feet N. of Base Line Ave., 2,600 feet E. of Eucalyptus Ave.; Lord Well 2 is 150 feet W. and 20 feet N. Use: Irrigation and domestic. Casing: 20 inches. Perforated 218-250; 297-301; 318-324; 331-358; 390-438; 450-468; 478-508.	18757G	1,260	*x629	(f) 618	4/15/31 12/19/31	.. 28 5	.. 0 02	.. 15	180 165	5 2	[b]40 12	.. 1	.. 40	.. 7	.. 11
D-1192-F-26	Citizens Land and Water Co., Old Ferguson Well 1. NW. of San Bernardino; 3,000 feet N. of Highland Ave., 200 feet E. of Sycamore St., extended. Use: Formerly irrigation, not used. Casing: 20 inches. Gravel 120-488.	18735	1,378	*x495	(d)	Nov. 1918	.....	.....	21	[a]164	5	14	3	44	7	17
D-1259-C-24	Mr. Lester. SW. of Cosy Dell; 950 feet E. and 320 feet N. of W. ¼ corner, Sec. 12, T. 2N., R. 6W., S. B. B. & M. NW. of Lost Lake, near Keenbrook. Use: Domestic. Well is very near San Andreas fault.	19432	2,778	42	(e)	10/19/32	78 8	0 11	11	372	12	133	7	107	36	24
D-1260-B-24	Atchison, Topeka and Santa Fe Railway Co., Cajon; 50 feet S. of A. T. & S. F. Ry., 100 feet E. of Cajon Creek, 1,375 feet NW. of water tanks at Cajon Station. Use: Boiler feed and domestic—treated for boiler use. Casing: 15½ inches.	20439	2,960	74	1304	9/ 2/32	71 0	0 05	27	360	12	64	4	78	26	51
E-1-E-27	City of San Bernardino, Devil Canyon Well 4. NW. of San Bernardino; 4,250 feet NE. of Belmont Ave. along Pine Ave., extended, 950 feet SE. of Pine Ave. produced, 50 feet N. of fence at mouth of Devil Canyon, 150 feet NW. of Devil Canyon Well 3. Use: Municipal. Casing: 8-foot caisson.	19569	1,891	x50	1308	9/ 1/32	59.3	0 02	10	308	9	57	1	84	22	15
E-4b-F-27	W. L. Wiggins. NW. of San Bernardino; 100 feet E. of California Ave, 400 feet S of Darby St. Use: Irrigation and domestic. Casing: 12 inches.	18765	1,296	x325	617	12/19/31	41 9	0 03	13	232	6	25	2	59	15	14
E-5e-F-27	Mt. Vernon Water Co. W. of San Bernardino; 75 feet S. of Highland Ave., 0.13 mile W. of California Ave., E. well of two 150 feet apart. Use: Irrigation. Casing: 20 inches. Perforated 225-308; 348-374; 382-422; 462-592.	18766	1,259	*x598	1325	9/ 2/32	45 6	0 08	14	238	7	36	1	62	14	16
E-6h-G-27	Citizens Land and Water Co., Raynor Well. W. of San Bernardino; 600 feet S. of Base Line Ave., 0.9 mile E. of Pepper Ave., near center of Lytle Creek Wash. Use: Abandoned.	18767	.....	600	(d)	Nov. 1918	.....	.....	14	[a]176	6	17	3	42	8	[c]10
E-7d-G-27	Citizens Land and Water Co., New Raynor Well 4. W. of San Bernardino; 400 feet S. of 9th St., 1,300 feet E. of Terrace St., 12 feet N. of Old Raynor Well 4. Use: Irrigation.	18768B	1,160	.....	1326	9/ 2/32	44 9	0 07	10	235	11	35	2	68	12	11

TABLE 16. WELLS IN SAN BERNARDINO AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-10-E-27	City of San Bernardino, Newmark Well. N. of San Bernardino 300 feet N. of A St., 0.49 mile W. of Third Ave. Use: Municipal and irrigation. Casing: 24 inches.	18782	1,413	x410	614	12/17/31	34 8	Tr.	12	204	6	12	2	51	11	11
					1327	9/ 1/32	35 6	0 08	11	204	9	12	2	51	10	10
E-15a-G-27	Terrace Water Co. W. of San Bernardino; 2,720 feet W. of Mt. Vernon Ave., 220 feet N. of Rialto Ave. Use: Irrigation. Casing: 16 inches.	18779	.....	x446	(d)	Aug., 1919	..	...	18	180	8	45	0	49	10	[c]16
					1411	9/21/32	41 3	0 02	9	217	5	31	2	61	12	10
E-15b-G-27	Barnhill Mutual Water Co. W. of San Bernardino; 242 feet W. of and 275 feet S. of NE. corner of Lot 20, Block 25, San Bernardino Rancho. Use: Abandoned in 1922. Casing: 12 inches.	18779A	.....	180	(d)	Aug., 1919	.....	.....	47	104	6	45	0	22	6	[c]32
E-23-G-27	Southern California Ice Co., Well 1. San Bernardino; 160 feet W. of 1 St., 250 feet N. of 3d St., 97 feet W. of engine house well. Use: Ice plant and domestic. Casing: 16 inches. Perforated 130-162; 180-198; 250-260; 320-376.	18799	1,069	*x384	(d)	Aug., 1927	.....	..	43	250	7	90	..	48	13	[c]60
					1319	9/ 1/32	46 2	0 05	15	247	9	13	2	63	14	18
E-24-E-28	Mrs. A. L. Hurtt. N. of San Bernardino: 0.9 mile N. of Willow Nook Road, 20 feet W. of Arrowhead Drive, 240 feet N. of 53d St. Inside of rock house. Use: Domestic and irrigation.	18812	1,483	x71	(d)	Feb., 1919	.....	.....	15	128	24	71	17	24	34	[c]16
					(e)	6/13/31	37 2	0 13	28	192	11	19	2	46	6	[c]25
E-29-G-28	City of San Bernardino, Hanford Well 1. San Bernardino; 0.13 mile N. of Rialto Ave., 0.16 mile E. of E St., 20 feet S. of 2d St., 140 feet E. of D St., 15 feet S. of pump house in yard of Water Department. Use: Municipal. Casing: 16 inches.	18809	1,028	x736	(f)	4/15/31	.....	.....	.....	192	7	[b]27				
E-29a-G-28	City of San Bernardino, Hanford Well 2. San Bernardino; 60 feet E. of D St., 170 feet S. of 2d St. In yard of Water Department. Capped and flows to covered concrete reservoir at Well 1. Use: Municipal.	18809A	1,028	x1,200	(e)	1/23/31	31 1	0 17	57	116	14	22	.....	19	3	[c]36
					1310	9/ 1/32	29 3	0 22	68	[a]113	16	24	0	14	4	48
E-34a-E-28	T. J. S. Clapp. NE. of San Bernardino; 600 feet N. of 40th St. (Willow Nook Road), 0.51 mile E. of Valencia Ave. Use: Irrigation. Casing: 16 inches. Perforated 240-294.	18833A	.....	*x294	1313	9/ 1/32	55 5	0 56	64	146	23	91	1	27	8	82
E-36a-F-28	City of San Bernardino, Perris Hill Well 3. San Bernardino; 200 feet S. of Highland Ave., 1,300 feet E. of Waterman Ave. Use: Municipal. Casing: 20 inches. Perforated 102-148; 156-202.	18826A	1,165	*x265	1311	9/ 1/32	39 1	0 20	37	137	12	56	10	35	9	34
E-38-G-28	City of Riverside, Benson Tract, Well F. E. of San Bernardino; 1,810 feet E. of Waterman Ave., 1,010 feet N. of 6th St. Use: Municipal. Casing: 10 inches.	18828	1,048	x520	(e)	1/23/31	35 4	0 01	1	198	4	10	.....	50	12	1
E-39-G-28	City of Riverside, Well D. E. of San Bernardino; 1,400 feet E. of Waterman Ave., 50 feet S. of 6th St., on E. bank of Warm Creek. Use: Municipal. Casing: 10 inches.	18829	1,040	x546	(e)	1/23/31	37 3	Tr.	0	201	4	11	.....	52	13	Tr.
					(f)	4/18/31	.....	.....	...	207	8	[b]20	...	..		
E-39a-G-28	City of Riverside, Well C. E. of San Bernardino; 1,675 feet N. of 3d St., 1,360 feet E. of Waterman Ave., on E. edge of Warm Creek. Use: Municipal. Casing: 10 inches.	18829A	.....	557	(e)	1/23/31	35 6	0 02	14	180	4	13	.....	43	8	11
					(f)	4/18/31	.....	.....	..	183	10	.....	...	..		
E-39b-G-28	City of Riverside, Well E. E. of San Bernardino; 2,160 feet E. of Waterman Ave., 1,910 feet N. of 3d St., 750 feet E. of Warm Creek. Use: Municipal. Casing: 10 inches.	18829B	.....	550	(e)	1/23/31	34 5	Tr.	17	177	2	12	.	45	5	[c]13
					(f)	4/18/31	.....	.....	..	193	9	[b]15	.....	.....	.....	.....
E-39c-G-28	City of Riverside, Frazier Well. San Bernardino; 1,260 feet N. of 3d St., 950 feet E. of Waterman Ave. Use: Municipal. Casing: 10 inches.	18829C	.....	625	(e)	1/23/31	36 1	0 03	4	186	4	10	.	46	11	3
					(f)	4/18/31	.....	.....	.....	193	10	[b]30	...	.	.....	.....
E-39d-G-28	City of Riverside, Well A. E. of San Bernardino; 300 feet N. of 3d St., 200 feet E. of Waterman Ave., 75 feet S. of Warm Creek. Use: Municipal—artesian flow. Casing: 10 inches.	18829D	1,026	x913	(e)	1/23/31	37 5	0 09	44	122	20	39	.....	29	6	34
					(f)	4/18/31	.....	.....	.....	100	28	[b]35	.....	.....	.....	.....
E-39e-G-28	City of Riverside, Well B. E. of San Bernardino; 250 feet N. of 3d St., 1,110 feet E. of Waterman Ave., 270 feet SE. of Warm Creek and 220 feet NE. of City Creek. Use: Municipal. Artesian flow. Casing: 10 inches.	18829E	1,034	x933	(e)	1/23/31	33.2	Tr.	42	125	12	28	.....	28	4	[c]29
E-42a-G-28	City of San Bernardino, Antil Basin Well 5. E. of San Bernardino; 900 feet N. of E. 6th St., 0.3 mile W. of Stiles St. Use: Municipal. Casing: 16 inches.	18838A	.....	x1,410	(e)	4/ 7/31	36 2	Tr.	58	125	16	44	.....	25	4	[c]46
					(f)	4/15/31	.....	.....	.....	127	20	[b]46	.....	.....	.....	.....
					616	12/17/31	34 8	0 05	56	125	20	43	Tr.	25	3	46
					1314	9/ 1/32	35 9	0 12	57	125	20	43	1	25	4	47

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10[6] at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-42h-G-28	City of San Bernardino, Antil Basin Well 1. E. of San Bernardino; 530 feet N. of E. 6th St., 0.45 mile W. of Stiles St. Use: Municipal—artesian. Casing: 12 inches. Gravel 176-196; 206-224; 232-250; 266-290; 420-426; 456-614.	18838H	.....	*614	(f)	4/15/31				146	9	[b]48	.....	.....	..	-
					615	12/17/31	34.8	0.01	19	195	7	16	1	48	9	17
					1315	9/ 1/32	35.5	0.26	24	189	7	18	1	45	9	21
E-43-G-28	Waterman Ranch. E. of San Bernardino; 0.30 mile W. of Tippecanoe St., 50 feet S. of Cardiff St. Use: Irrigation. Casing: 10 inches. Perforated 974-976; 1002-1147.	18839	1,051	*x1147	1413	9/21/32	34.1	0.03	47	137	18	27	1	29	4	37
E-43b-G-28	Mr. Davis. E. of San Bernardino; 300 feet W. of Stiles St. (Tippecanoe St.), 20 feet N. of 3d St., 20 feet S. of City Creek. Use: Irrigation. Casing: 10 inches.	18839B	1,063	x	(c)	4/ 9/31	27.9	Tr.	40	134	4	22		28	3	[c]25
					1410	9/21/32	28.0	0.06	39	134	5	20	1	27	5	27
E-44f-F-28	H. F. Busboom. NE. of San Bernardino; 400 feet N. of Olive St., 400 feet W. of Mountain Ave. Use: Irrigation. Casing: 12 inches.	18845B	.....	231	1316	9/ 1/32	56.4	0.66	54	143	21	102	11	37	10	74
E-44g-E-28	Lady Margaret Sharp. NE. of San Bernardino; 1,600 feet N. of 40th St. (Willow Nook Road), 600 feet W. of Mountain Ave., extended. S. of swimming pool. Use: Irrigation and domestic. Casing: 4' x 4' dug well.	18842	1,550	.....	1425	9/22/32	37.0	0.42	58	125	14	42	1	23	5	49
E-45b-F-28	George M. Cooley. NE. of San Bernardino; 10 feet W. of Del Rosa Ave. at turn to east, 0.25 miles S. of Highland Ave. Use: Irrigation. Perforated 75-85.	18846B	1,150	x124	(c)	2/28/33	50.6	0.31	39	131	27	98	27	44	14	[c]49
E-46i-F-28	A. Osbun. E. of San Bernardino; 200 feet N. of Base Line Ave., 0.1 mile E. of Del Rosa Ave. Use: Irrigation and domestic. Casing: 3 inches.	18857D	1,098	x165	1317	9/ 1/32	45.3	0.26	61	156	18	41	27	24	7	66
E-46L-F-28	A. Osbun. E. of San Bernardino; 500 feet N. of Base Line Ave., 1,000 feet W. of Sterling St. Use: Irrigation. Casing: 12 inches. Gravel 360-408; 424-432; 460-478; 488-508; 520-628.	18857F	.....	*628	1318	9/ 1/32	63.4	0.37	22	116	36	159	1	81	12	34
E-46n-F-29	J. Dolimer. E. of San Bernardinn; 100 feet N. of Base Line Ave., 400 feet E. of Sterling St. Use: Domestic and irrigation. Casing: 12 inches.	18857G	1,105	470	(c)	10/20/32	62.6	0.71	-	.....	.....	.....	.....	.....	.....	
E-48-G-28	M. C. Freitas. E. of San Bernardino; 100 feet S. of 3d St., 0.43 mile W. of Sterling St. Use: Domestic. Casing: 6 inches in 20-foot pit. Open bottom casing.	18849	1,092	50	1412	9/21/32	29.8	0.04	22	134	5	13	11	32	9	15
E-49-F-29	West Highlands Water Co. E. of San Bernardino; 20 feet S. of Highland Ave., 0.09 mile W. of Victoria St. In corrugated iron pump house. Use: Irrigation. Casing: 18 inches. Gravel 180-224.	18876	1,267	*x224	(d)	Oct. 1918			24	128	10	15	13	27	10	[c]16
E-49a-F-29	East Highland Orange Co. NE. of San Bernardino; 495 feet N. of Pacific St., 40 feet W. of Orange St. Use: Domestic.	18866	.....	.....	(g)	10/29/26	.....	.....	39	232	16	25	.....	43	9	[c]43
E-49d-F-29	Patton State Hospital. W. of Highland; 150 feet S. of Highland Ave., 0.16 mile W. of Central Ave. Use: Irrigation and domestic. Casing: 18 inches. Perforated 130-326.	18876A	1,285	*x351	1428	9/23/32	40.9	0.08	44	177	16	53	13	32	10	44
E-50c-F-29	East Highland Orange Co. E. of San Bernardino; 600 feet S. of Pacific St., 40 feet W. of Orange St., extended south, 20 feet E. of new well drilled March, 1931. Use: Formerly irrigation; abandoned February, 1931. Casing: 12 inches. Gravel 120-160; 220-250; 364-720.	18867	1,148	*x752	(g)	10/29/26			39	146	32	136	.....	61	9	[c]55
E-50h-F-29	Harlem Springs Resort. E. of San Bernardino; 50 feet E. of Victoria St., 0.12 mile N. of Base Line Ave. Use: Domestic. Casing: 7 inches. Open bottom casing, no perforations.	18877D	1,144	238	(c)	4/ 6/31	27.3	0.02	74	122	7	17	.....	10	2	[c]24
					1426	9/22/32	28.3	0.06	77	125	5	10	11	12	1	52
E-50m-F-29	Base Line Laundry. E. of San Bernardino; 800 feet N. of Base Line Ave., 0.58 mile E. of Sterling St. Use: Laundry.	18867G	1,125	.....	(c)	4/ 4/31	38.4	0.25	78	116	16	55	.....	11	3	[c]63
E-51a-G-28	A. Gregory. E. of San Bernardino; 0.10 mile N. of 6th St., 0.35 mile E. of Sterling St. Use: Irrigation. Casing: 14 inches. Perforated 153-165; 361-379; 391-411; 456-464; 498-504.	18868	1,092	*523	1427	9/23/32	22.5	0.08	28	110	5	7	6	27	1	13
E-53-F-29	J. D. Boley. NW. of Highland; 0.62 mile N. of Highland Ave., 800 feet W. of Victoria St. Use: Irrigation. Casing: 16 inches. Perforated 280-425; 478-498.	18875	1,398	*615	(c)	12/15/31	39.6	0.13	44	144	18	55	5	30	10	[c]41

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-54-F-29	Corwin Well Co. Highland, 20 feet S. of Atlantic Ave., 0.27 mile W. of Boulder Ave. Use: Irrigation. Casing: 20 inches. Perforated 306-348; 352-471.	18896	1,410	*x513	(d) 1423	Aug. 1930 9/22/32	--- 34 0	--- 0 23	--- 71	157 140	15 14	--- 20	--- 6	--- 16	--- 3	--- 58
E-54c-F-29	Thompson Brothers and Bear Valley Water Co., Barnes Well. NW. of Highland; 40 feet N. of Highland Ave., 0.12 mile W. of Palm Ave. Use: Irrigation. Casing: 20 inches. Perforated 244-254; 266-420; 471-490.	18886A	1,376	*515	(e) (e)	4/29/31 8/ 4/31	40 6 42.9	0 18 0 16	61 68	149 165	14 20	52 60	--- 3	23 24	5 3	c55 c71
E-58a-F-30	American States Water Service Co., City Creek Highland Plant 1, Well 2. NE. of Highland; 0.26 mile E. of City Creek Road, 300 feet N. of Highland Ave. Use: Domestic.	18906A	1,498	308	(e)	4/25/30	59 9	1 03	86	122	20	83	----	9	2	85
E-58b-F-29	Highland Well Co. NE. of Highland; 115 feet N. of Highland Ave., 690 feet E. of City Creek. Use: Irrigation.	18906	1,473	72	(d)	Oct. 1918	----	----	24	122	10	21	2	28	8	c15
E-58c-F-29	American States Water Service Co., City Creek Highland Plant 1, Well 1. NE. of Highland; 60 feet N. of Highland Ave., 0.25 mile E. of City Creek Road, W. of reservoir. Use: Domestic and irrigation.	18906C	1,492	----	1422	9/22/32	48 1	0 46	51	162	16	60	18	32	10	58
E-58i-F-29	Base Line Well Co. SE. of Highland; 50 feet N. of Base Line Ave. between branches of City Creek, 0.13 mile E. of Boulder Ave. Use: Irrigation. Perforated 56-68; 150-175.	18907A	----	*352	1419	9/22/32	28 3	0 08	30	122	7	10	9	28	8	21
E-59d-G-30	J. D. Langford. East Highland; 400 feet N. of 3d St., 600 feet E. of Orange St. Use: Irrigation. Casing: 18 inches. Perforated 175-292.	18918A	1,265	*305	1418	9/22/32	26 1	0 05	27	113	7	9	9	27	7	16
E-60a-F-30	Mr. Seely. E. of Highland; 50 feet W. of Church St., 1,300 feet N. of Base Line Ave. Use: Domestic and irrigation. Drilled to replace shallow well 20 feet away.	18927	1,555	506	(e)	8/ 5/31	29 2	0 05	50	143	7	21	10	23	6	c36
E-61c-G-30	East Highlands Domestic Water Co., Edward Well. East Highland; 550 feet S. of Santa Ana Canyon Road, 25 feet W. of University St., 130 feet N. of Sycamore Drive. Use: Domestic.	18938	----	----	(d) 1416	Oct. 1918 9/22/32	--- 23.8	--- 0 06	14 30	92 107	10 5	10 8	0 9	20 24	6 6	c6 16
E-62a-G-30	Dr. E. W. Burke, et al. E. of East Highland; 0.25 mile N. of Santa Ana Canyon Road, 1.0 mile E. of Weaver St., 0.2 mile S. of mouth of Plunge Creek. Use: Irrigation. Casing: 24 inches. Perforated 250-308; 326-348.	18958	----	*x375	1421	9/22/32	25 3	0 08	30	119	7	14	2	25	8	18
E-63b-G-31	East Highlands Orange Co. and W. V. Ranney. NE. of Redlands; 4,900 feet W. of intersection of Greenspot Road, 1,400 feet S. of Santa Ana Canyon Road. Use: Irrigation. Casing: 24 inches. Perforated 262-340; 344-458.	18969	----	*460	1414	9/22/32	23 2	0 04	29	110	4	14	3	24	6	16
E-64b-G-31	North Fork Water Co., New Well. NE. of Redlands; 100 feet N. of Santa Ana Canyon Road, 150 feet W. of Greenspot Road, 0.5 mile W. of mouth of Santa Ana Canyon. S. one of two wells. Use: Irrigation. Casing: 24 inches. Perforated 65-162; 165-267.	18989A	1,810	*x267	1415	9/22/32	36 1	0 06	30	152	5	38	4	38	9	26
E-65-G-31	Western Fruit Co. NE. of Mentone; 0.22 mile E. from intersection of Greenspot Road and Newport Ave., thence 1.05 mile N. and thence 0.2 mile NW. Well is in canyon 400 feet NE. of this point. Use: Irrigation. Casing: 20 inches. Perforated 24-130; 130-260.	19009	2,060	*357	1417	9/22/32	54 4	0 08	21	232	16	63	2	58	19	27
E-78-G-27	City of Colton, Highline Well 8. N. of Colton; 175 feet S. of Rialto Ave., 0.52 mile W. of Mt. Vernon Ave. Use: Municipal. Casing: 14 inches.	17970C	----	x640	(f)	4/16/31	----	----	----	208	8	b35	----	----	----	----
E-85c-G-27	City of Colton, New Well 12. San Bernardino; 350 feet N. of Mill St., 50 feet E. of Mt. Vernon Ave. Use: Municipal. Casing: 10 inches. Perforated 538-608.	17980	1,063	*x904	(e) (f)	3/29/31 4/16/31	37 2 ----	0 01 ----	34 ----	207 218	5 8	34 b40	----	43 ----	8 ----	c33 ----
E-89b-G-27	De Sienna Mission Hot Springs, Hot Well. San Bernardino; 310 feet S. and 20 feet W. of center line of private road extending southerly to Colton Ave. from junction of K St. and Hillcrest Ave. Use: Swimming baths. Casing: 12 inches. Perforated 304-318; 376-386; 470-485; 502-520; 522-544.	17991	1,035	*547	(e)	4/24/30	59 9	1.65	82	220	99	5	----	21	1	c123

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-89e-G-27	De Sienna Mission Hot Springs, Cold Well. San Bernardino; 370 feet S. and 20 feet W. of private road extending southerly to Colton Ave. from junction of K St. and Hillcrest Ave. Use: Domestic. Artesian well. Bubbles rise through water.	17991A	1,025	200	(e)	4/ 3/31	35 9	0 02	43	214	7	25	.....	40	5	c42
E-93d-G-28	Meeks and Daly Water Co. S. of San Bernardino; 0.7 mile S. of Mill St., 100 feet W. of E. St. Use: Irrigation. Casing: 20 inches. Perforated 24-34; 52-572. Sample on 8/13/31 is composite above 450 feet, on 8/27/31 above 490 feet (new gravel at 480 feet), on 9/2/31 above 524 feet, on 9/11/31 above 562 feet (new 12-foot gravel stratum), on 9/16/31 above 590 feet, on 10/28/31 is composite 5 days after starting pump, and on 12/15/31 and 1/11/32 pump discharge 5 and 7 second feet, respectively.	18001B	980	*603	(e)	8/13/31	41 9	0 07	16	238	7	23	Tr.	57	12	c17
					(e)	8/27/31	40 8	0 21	26	210	7	24	0	47	9	c25
					(e)	9/ 2/31	37 3	0 20	58	174	16	26	0	28	3	c52
					(e)	9/11/31	40.7	0 12	28	207	9	24	1	48	8	c26
					(e)	9/16/31	33 0	0 15	51	171	4	22	Tr.	30	1	c39
					(e)	10/28/31	40 4	0 37	31	189	16	24	Tr.	40	10	c29
					(e)	12/15/31	39 0	0 39	41	176	21	24	Tr.	36	7	c38
					(e)	1/11/32	40 6	0 44	.....	.....	.....	.....	.....	.....	.....	.....
E-93j-G-27	Urbita Hot Springs. S. of San Bernardino; 0.45 mile SW. of intersection of Colton Ave. and E St., 600 feet SE. of Colton Ave. Use: Flowing well discharging into Lake. Casing: 4 inches. Gravel 90-152; 183-250; 276-302.	18001D	1,000	*368	(e)	4/ 4/30	41 7	0 05	26	256	5	14	.....	54	9	c28
E-93p-G-28	Gregory and Langford. S. of San Bernardino; 50 feet W. of Arrowhead Ave., 0.7 mile S. of Mill St. Use: Irrigation and domestic. Casing: 10 inches.	18001F	.....	.....	(e)	9/ 2/31	45 2	1 03	72	171	46	22	0	22	2	c76
					(e)	9/16/31	45 7	1 01	69	168	44	20	0	22	3	c71
E-94a-H-27	City of San Bernardino. S. of San Bernardino; 850 feet W. of E. St., 2400 feet N. of Colton Ave. Use: General, at sewage disposal plant. Perforated above plug at 150 feet.	18002	972	300	(e)	6/13/31	51 9	0 62	62	140	69	33	Tr.	32	3	c71
E-94b-H-28	City of Riverside, Paine Well. S. of San Bernardino; 590 feet S. of Dumas Drive, 760 feet W. of Waterman Ave. Use: Scott's laundry without additional heating.	18012	1,007	x.....	(d)	Mar., 1930	.....	.....	67	105	78	27	.....	12	11	c71
					(e)	1/17/31	48 8	1 52	65	95	75	26	.....	8	13	c63
					(e)	2/ 4/31	47 4	1 66	88	95	73	27	.....	7	1	c85
					(e)	3/26/31	46 8	1 48	87	98	73	18	.....	8	2	c81
E-94c-H-28	City of Riverside, Byrne Tract Well. S. of San Bernardino; 50 feet S. of Dumas Drive, extended, 2675 feet W. of Waterman Ave. Use: Municipal. Casing: 20 inches. Perforated 645-657; 673-681; 779-789; 851-873; 879-895; 907-943; 975-1014; 1018-1035; 1063-1074; 1091-1125.	18012A	995	*1,162	(e)	1/17/31	43 9	0 56	66	122	43	30	.....	20	3	c59
					(f)	4/18/31	.....	.....	.....	127	50	b46	.....	.....	.....	.....
E-94d-H-28	Riverside Water Co., New Thorn Tract Well. S. of San Bernardino; 1700 feet S. of Dumas Drive, 1750 feet W. of Waterman Ave. Use: Irrigation. Casing: 20 inches. Perforated 64-108; 150-180; 182-192; 210-214; 220-236. Sample on 6/7/31 bailed from 90-foot depth while drilling, on 6/10/31 coarse gravel at 150-160 with slight flow, and on 6/13/31 coarse gravel at 220-236 with slight flow. Gravel again encountered at 334-340 but casing was not cut.	18012B	997	*350	(e)	6/ 7/31	41 7	0 01	26	171	11	42	4	46	8	c24
					(e)	6/10/31	43 0	0 02	32	201	11	40	Tr.	48	8	c32
					(e)	6/13/31	34 3	0 14	43	149	14	21	2	31	4	c33
E-94g-H-28	Mrs. M. L. Hunt, Well 3. E. of Colton; 245 feet E. of Hunt Ave., 900 feet S. of Colton Ave. One of four flowing wells around small reservoir. Use: Irrigation. Casing: 10 inches. Gravel 90-108; 116-130.	18013B	990	*400	(d)	3/30/26	.....	.....	42	207	36	53	.....	42	13	c53
E-94h-H-28	City of Riverside, Hunt Tract Well 6. E. of Colton; 90 feet W. of Waterman Ave., 90 feet S. of Colton Ave. Use: Municipal. Casing: 8 inches.	18013C	1,015	538	(e)	1/30/31	40 9	0 40	69	137	34	32	.....	17	4	c61
					(f)	4/18/31	.....	.....	.....	144	34	b42	.....	.....	.....	.....
E-94i-H-28	City of Riverside, Hunt Tract Well 8. E. of Colton; 28 feet W. of Waterman Ave., 43 feet S. of Colton Ave. Use: Municipal. Casing: 10 inches.	18013D	1,015	544	(e)	1/30/31	39 5	0 31	67	140	28	33	.....	20	3	c59
					(f)	4/18/31	.....	.....	.....	144	31	b30	.....	.....	.....	.....
E-94j-H-28	City of Riverside, Hunt Tract Well 9. E. of Colton; 11 feet W. of Waterman Ave., 11 feet S. of Colton Ave. Use: Municipal. Casing: 10 inches.	18013E	1,015	574	(e)	1/30/31	37 3	0 31	71	131	30	31	.....	16	3	c59
					(f)	4/18/31	.....	.....	.....	134	34	b38	.....	.....	.....	.....
E-94r-H-28	Oebl Packing Co. S. of San Bernardino; 250 feet W. of E. St., 650 feet N. of Colton Ave. Use: Domestic and packing house.	18002A	975	180	(e)	4/ 9/31	50 4	0 11	48	201	30	38	.....	39	8	c55
E-95b-H-28	City of Riverside, Stewart Tract Well 19. E. of Colton; 365 feet N. of S. P. R. R., 0.25 mile S. of Colton Ave., 70 feet W. of Waterman Ave. Use: Municipal.	18014A	1,018	450	(e)	1/30/31	58 4	0 15	42	238	30	45	.....	48	11	55
					(f)	4/18/31	.....	.....	.....	223	39	b48	.....	.....	.....	.....
E-95c-H-28	City of Riverside, Stewart Tract Well 21. E. of Colton; 360 feet N. of S. P. R. R., 0.25 mile S. of Colton Ave., 130 feet W. of Waterman Ave. Use: Municipal. Casing: 20 inches. Perforated 115-131; 205-223; 406-440; 525-539; 675-760.	18014B	1,018	*815	(e)	1/30/31	45 4	0 17	61	155	32	40	.....	22	7	c60

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25 C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-95d-H-28	City of Riverside, Stewart Tract Well 20. E. of Colton; 240 feet N. of S. P. R. R., 0.25 miles S. of Colton Ave., 130 feet W. of Waterman Ave. Use: Municipal.	18014C	1,018	898	(e)	1/30/31	35.0	0.20	91	101	18	52	.	3	2	c68
					(f)	4/18/31			.	120	30	b50			...	
E-98-H-28	L. A. Lambert. S. of San Bernardino; 0.13 mile N. of Colton Ave., 15 feet W. of Waterman Ave. Use: Irrigation. Casing: 12 inches. Gravel 102-128; 160-172; 186-202; 206-222; 550-610.	18023	1,014	*x610	(e)	6/13/31	37.1	0.10	43	119	18	33	3	27	6	c31
E-98a-G-28	City of Riverside (formerly C. W. and Rosetta D. Raub), Raub Tract Well 1. E. of Colton; 1950 feet E. of Waterman Ave., 0.47 mile S. of Central Ave., 380 feet S. of unnamed street. Use: Irrigation. Casing: 12 inches.	18022			(e)	1/12/31	28.5	0.08	35	119	2	17	..	28	1	c19
E-98b-H-28	City of Riverside, Warren Tract Well 1. E. of Colton; 48 feet W. of Waterman Ave., 2295 feet S. of Dumas Drive, 0.6 mile N. of Colton Ave. Use: Proposed municipal, capped 11/9/31 and not used. Casing: 20 inches. Perforated 638-656; 722-748; 772-814. Artesian well. Sampled at 555, 616, 719, and 799 feet, respectively, by special method to isolate water originating at these depths.	18022A	997	*965	(e)	11/26/30	44.5	0.81	90	107	55	31	.....	4	2	82
					(e)	1/23/31	43.6	0.64	86	113	53	29		6	3	78
					(e)	3/25/31	42.9	0.67	84	113	44	30	.....	8	3	72
					(e)	4/ 1/31	42.3	0.67	86	110	46	34	.....	9	1	75
					(e)	4/ 1/31	41.9	0.65	85	110	46	31	.	9	1	73
					(e)	4/ 1/31	43.5	0.80	93	107	57	34	.....	4	1	86
					(e)	4/ 1/31	40.2	0.32	88	107	43	30	.....	6	1	72
					(f)	4/18/31	.....	.	.	115	51	b30		---	.....	.....
					(e)	6/23/31	43.4	0.62	.....	116	49	34	1	6	.	
E-98c-H-28	City of Riverside, Warren Tract Well 2. E. of Colton; 41 feet W. of Waterman Ave., 1356 feet S. of Dumas Drive, 0.68 miles N. of Colton Ave. Use: Proposed municipal, capped 8/20/32 and not used. Casing: 20 inches. Perforated originally at 556-638; 722-748; 772-814; later plugged at 485; and reperforated at 92-124; 224-235; 257-305. Artesian well. Samples prior to 4/6/31 were from natural flow. Samples on 4/6/31 were taken from depths of 537, 642, 704, 786, and 868 feet, respectively, by special method to isolate water originating at these depths. Sample on 5/7/31 from 516 feet by same method. U. S. D. A. analyses on 5/19/31, 5/21/31, and 5/22/31 are duplicates of D. W. R. Lab. Nos. 1, 2 and 3. Samples on 5/19/31 are from stratum at 257-305, on 5/21/31 from stratum at 224-235, and on 5/22/31 from stratum at 92-124 feet.	18022B	1,002	*965	(e)	11/26/30	42.4	0.89	78	122	59	24	.....	13	3	c75
					(e)	1/23/31	45.0	0.78	82	113	55	25	....	11	2	c75
					(e)	3/25/31	44.9	0.89	88	110	55	26	.....	8	1	c78
					(e)	4/ 6/31	44.0	0.80	85	116	53	24	.....	9	1	c76
					(e)	4/ 6/31	44.9	0.82	88	116	57	26	.....	7	1	c82
					(e)	4/ 6/31	44.1	0.84	88	113	57	29	....	7	2	c82
					(e)	4/ 6/31	39.4	0.20	86	110	44	39	.....	9	1	c76
					(e)	4/ 6/31	38.7	0.07	91	113	41	45	...	6	Tr.	c83
					(e)	5/ 7/31	42.1	0.65	78	155	43	25		15	3	c77
					3	5/19/31	28.2	..	39	131	14	16	1	25	6	26
					(e)	5/19/31	28.8	0.05	35	128	5	15	1	28	4	c21
					2	5/21/31	29.3		43	134	16	17	1	25	5	30
					(e)	5/21/31	29.3	0.11	37	128	7	17	2	28	3	c23
					1	5/22/31	29.0	...	42	131	14	21	1	25	5	29
					(e)	5/22/31	28.7	0.12	33	125	7	15	1	28	4	c20
					(e)	6/23/31	31.3	0.31	62	131	18	47	1	26	1	c52
E-98d-G-28	Soltario Rancho Co., Community Well. E. of Colton; 50 feet W. of Waterman Ave., 300 feet N. of A. T. & S. F. Ry., 0.49 mile S. of Central Ave. Use: Domestic. Casing: 10 inches.	18022C		x300	(e)	3/27/31	28.7	0.05	15	149	4	4	.....	34	6	9
E-98e-H-28	City of Riverside, Raub Tract Well 2. E. of Colton; 0.29 miles E. of Waterman Ave., 0.67 mile S. of Central Ave., 220 feet NE. of A. T. & S. F. Ry. Use: Municipal. Casing: 20 inches. Gravel 44-78; 102-138; 142-163; 169-181; 194-236; 240-251; 262-340; 382-401; 421-433; 452-458; 519-612; 668-720; 728-738; 744-758; 876-882; 892-908; 918-950; 954-960; 992-1014; 1072-1079; 1090-1100; 1145-1166. Perforated in gravels below 500 feet when completed. Samples 1 to 24, inclusive, were taken while drilling from various depths as listed below. 1 44-62 feet; 2 67-76 feet; 3 102-138 feet; 4 142-163 feet; 5 169-181 feet; 6 194-216 feet; 7 218-236 feet; 8 240-257 feet; 9 262-340 feet; 10 382-401 feet; 11 421-433 feet; 12 452-470 feet; 13 519-612 feet; 14 668-720 feet; 15 728-738 feet; 16 744-758 feet; 17 876-882 feet; 18 892-908 feet; 19 918-950 feet; 20 954-960 feet; 21 992-1014 feet; 22 1072-1079 feet; 23 1090-1100 feet; 24 1145-1166 feet 25 Water from gravel perforated below 500 feet after completion of well.	18022D	1,021	*1,188	c1	8/11/31	45.6	0.10	18	192	16	77	Tr.	67	11	c22
					c2	8/11/31	43.5	0.01	22	189	14	62	1	62	8	c25
					c3	8/12/31	32.6	0.04	22	183	11	37	Tr.	51	8	c21
					c4	8/13/31	30.8	0.06	25	159	9	21	1	38	7	c19
					c5	8/13/31	30.8	0.09	28	149	7	23	2	36	6	c20
					c6	8/14/31	32.4	0.05	28	159	11	24	3	37	8	c22
					c7	8/14/31	31.1	0.05	19	146	9	21	3	37	9	c14
					c8	8/15/31	32.6	0.06	25	159	11	23	3	40	7	c20
					c9	8/15/31	32.1	0.08	27	159	9	22	2	39	6	c21
					c10	8/19/31	31.8	0.05	30	159	11	20	4	37	6	c23
					c11	8/20/31	33.8	0.10	35	152	9	26	2	32	7	c27
					c12	8/21/31	33.6	0.02	43	177	9	17	2	31	5	c35
					c13	8/25/31	36.5	0.02	46	189	12	24	2	33	7	c42
					c14	9/ 5/31	37.3	0.09	50	192	9	44	1	36	5	c50
					c15	9/ 5/31	44.5	0.14	55	146	32	42	2	31	4	c54
					c16	9/ 7/31	43.2	0.04	64	143	34	42	2	25	4	c62
					c17	9/26/31	36.0	0.09	53	162	16	32	0	29	4	c46
					c18	9/26/31	39.1	0.13	49	165	21	40	0	35	5	c47
					c19	9/26/31	42.8	0.05	69	140	34	48	4	22	3	c69
					c20	9/26/31	43.7	0.07	73	137	39	49	4	20	2	c75
					c21	9/26/31	43.4	0.14	76	134	39	48	Tr.	16	3	c75
					c22	10/ 6/31	38.8	0.07	68	131	28	39	0	20	3	c59
					c23	10/ 7/31	40.4	0.11	75	119	37	47	0	16	2	c69
					c24	10/12/31	38.6	0.13	73	137	30	34	0	16	2	c64
					c25	11/14/31	38.9	0.08	58	137	23	37	3	28	2	c49
E-98h-H-28	Riverside Trust Co., Well M. E. of Colton; 1320 feet E. of Waterman Ave., 100 feet N. of Colton Ave. Use: Irrigation.	18023A	1,027	x.....	(e)	6/13/31	50.9	0.09	44	217	28	45	10	46	9	c55

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-98p-G-28	Gage Canal Co., Well 29-2. N. of Loma Linda; 0.06 miles N. of San Bernardino Ave., 0.03 mile W. of Tippecanoe Ave., on N. side of Gage Canal. Use: Irrigation. Casing: 24 inches. Perforated 122-299.	18032A	1,040	*325	1217	8/ 6/32	54 3	0 01	17	183	23	85	9	73	15	23
E-98s-H-28	Gage Canal Co., Well 29-1. N. of Loma Linda; 0.27 mile N. of Colton Ave., 0.38 mile W. of Tippecanoe St. Use: Irrigation. Casing: 24 inches. Perforated 84-116; 119-137; 145-233; 255-279.	18033D	1,040	*303	1371	9/12/32	71.5	0 07	35	327	32	50	12	64	22	62
E-98y-H-28	Mrs. A. Law. E. of Colton, 0.9 mile S. of Central Ave., 400 feet E. of Waterman Ave. Use: Irrigation. Casing: 12 inches. Gravel 135-250; 504-527; 694-730.	18022I	999	*730	(e)	4/20/31	31 4	0 10	42	155	9	21		30	4	c31
E-98z-H-28	Gage Canal Co., Well P. SE. of San Bernardino; 1700 feet N. of Colton Ave., 0.65 mile E. of Waterman Ave. Use: Irrigation. Perforated 340-405; 577-590; 609-640.	18033I	1,040	*640	(e)	6/13/31	51 5	0 09	37	226	25	41	15	52	11	c47
E-101b-G-28	Gage Canal Co., Well 30-1. N. of Loma Linda; 500 feet S. of Central St., 900 feet E. of Tippecanoe Ave. Use: Irrigation. Casing: 24 inches. Gravel 74-174; 200-236; 248-300; 314-348; 380-400; 478-490; 496-538; 600-618; 636-644; 672-676; 682-700; 758-762; 766-808; 810-816; 820-822; 838-874; 907-911.	18041	1,055	*937	(e) 1374	1, 15/31 9, 12/32	32 6 24 2	0 02 0 16	41 21	146 119	7 2	23 9	 2	29 29	5 7	c29 13
E-101c-G-28	Gage Canal Co., Well 31-1. SE. of San Bernardino; 750 feet E. of Tippecanoe Ave., 450 feet S. of Ceatral St. Use: Irrigation. Casing: 24 inches. Perforated 100-144; 151-172; 190-232; 264-294; 328-340; 378-384; 392-402.	18041A	1,055	*422	1375	9/14/32	35 0	0 15	53	155	11	27	1	26	5	45
E-103-H-28	W. Henry Van Leuven. E. of Loma Linda; 20 feet W. of Mountain View Ave., 150 feet S. of intersection of Mountain View Ave. and Mission Road. Use: Irrigation.	18054	1,120	--------	(e)	4/ 4/30	79 1	0 04	39	366	43	58	--------	60	26	c75
E-103c-H-28	College of Medical Evangelists, Kelley Well. Loma Linda; 1250 feet E. of Anderson St., 200 feet N. of Van Leiven St. Use: Domestic. Perforated 180-194; 198-208; 610-640; 696-754.	18044A	1,090	*754	1218	8/ 4/32	69 6	0 05	48	302	45	49	2	53	15	83
E-107L-H-29	Allen Break and C. A. Puffer, Puffer Well. Bryn Mawr; 1900 feet E. of Mountain View Ave., 1200 feet N. of Barton Ave. Use: Irrigation. Casing: 14 inches. Gravel-packed well.	18064B	1,150	425	1220	8/ 5/32	85 5	0 09	41	336	57	78	22	65	27	86
E-109i-G-29	Langford De Hart, De Hart Well. NW. of Redlands; 30 feet N. of Palmetto Ave., 50 feet W. of Alabama Ave. Use: Irrigation. Casing: 18 inches. Perforated 79-209.	18091E	1,220	*220	1224	8/ 5/32	41 3	0 03	15	183	9	29	22	56	11	14
E-110d-G-29	H. C. Emm, Fairview Well. NW. of Redlands; 265 feet N. of San Bernardino Ave., 642 feet W. of Alabama Ave. Use: Irrigation.	18082	1,215	300	(d)	May, 1919	--------	------	21	177	12	22	2	48	7	c18
E-110e-H-29	Mascart Water Co. NW. of Redlands; 640 feet E. of Alabama St., 670 feet N. of Lugonia Ave. Use: Irrigation.	18092	1,240	400	(d)	Oct., 1918	--------	------	11	191	11	35	0	55	10	c10
E-110t-H-29	Leigh Nickerson. W. of Redlands; 75 feet S. of A. T. & S. F. Ry. loop tracks, 50 feet W. of Nevada St., 30 feet S. of old well E-110a-H-29. Use: Irrigation. Casing: 20 inches. Perforated 294-298; 313-333; 366-454.	18083B	1,188	*467	1222	8/ 5/32	44 2	0 01	20	177	27	25	9	56	11	21
E-114f-H-29	City of Redlands, Texas St. Plant 1, Well 30. Redlands; 220 feet N. of Lugonia Ave., 180 feet W. of Texas St. S. well of three. Use: Municipal. Casing: 18 inches. Gravel 90-120; 129-237.	18102A	1,313	*x237	1226	8/ 4/32	44 6	0 04	17	186	11	32	22	58	11	17
E-114i-H-29	City of Redlands, Well 41. Redlands; 150 feet W. of Texas St., 50 feet S. of S. P. R. R. Use: Municipal. Casing: 20 inches. Perforated 150-442.	18104A	1,300	*474	1227	8/ 4/32	45 6	0 13	26	168	28	38	9	52	11	29
E-119-G-30	North Brae Water Co. N. of Redlands; 350 feet N. of San Bernardino Ave., 50 feet W. of Church St. Use: Irrigation. Casing: 20 inches. Perforated 184-386.	18122	1,390	*400	1228	8/ 6/32	38 4	0 01	13	177	7	27	16	54	10	12
E-123f-H-31	East Lugonia Water Co., Well 5. Mentone; 100 feet E. of Beryl Ave., 300 feet N. of Lugonia (Mentone) Ave. Use: Domestic and irrigation. Casing: 26 inches. Perforated 116-183.	18172B	1,690	*x318	1232	8/ 4/32	36 6	0 01	12	174	9	30	11	56	13	12

TABLE 16. WELLS IN SAN BERNARDINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million)						
										Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-127g-H-31	Chas. T. Paine, Well 2. S. of Mentone; 0.23 mile S. of Colton Ave., 300 feet W. of King St. Use: Irrigation. Perforated 120-152; 157-178; 182-212; 218-228.	18173	1,710	*250	1233	8/ 5/32	40.2	0.02	19	198	13	23	11	46	17	20
E-127f-H-31	McIntosh Estate. E. of Mentone; 1000 feet N. of Lugonia (Mentone) Ave., extended, on W. line of Greenspot Road. Use: Irrigation and domestic.	18192A	2,017	x--------	1234	8/ 4/32	40.4	0.03	10	210	7	27	7	57	15	10
E-131f-G-31	Greenspot Mutual Well Co. NE. of Mentone; 2100 feet N. of Newport Ave., 150 feet W. of Peppers Road (private road). Use: Irrigation. Casing: 16 inches. Perforated 90-147.	18201	2,100	*x160	1236	8/ 4/32	34.2	0.03	12	162	11	21	7	47	11	11
E-131g-G-31	Western Fruit Co. NE. of Mentone; 0.8 mile N. of Newport St., 100 feet W. of Peppers Road (private road). Use: Irrigation. Casing: 18 inches. Perforated 60-120; 125-152.	18200	2,100	*630	1235	8/ 4/32	36.0	0.03	18	177	9	30	2	45	12	17
E-134-G-32	East Highland Orange Co., Sunrise Ranch Well 2. N. of Yucaipa; N. 16° E. from Southern California Edison power plant near Rainbow Angling Club on Mill Creek, N. 64° W. from intersection of 2d Ave. and Mill Creek Road. Use: Irrigation. Casing: 20 inches. Gravel 200-283; 329-445; 583-593; 845-1012.	18231		*1,012	1239	8/ 4/32	32.2	0.01	15	165	4	21	0	42	11	12
E-134a-G-32	East Highland Orange Co., Sunrise Ranch Well 1. N. of Yucaipa; N. 45° E. from power house near Rainbow Angling Club on Mill Creek, N. 64° W. from intersection of 2d Ave. and Mill Creek Road. Use: Irrigation. Casing: 20 inches.	18231A	2,580	*922	1240	8/ 4/32	33.5	0.07	15	165	2	32	1	42	11	12

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.
[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[e] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[f] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[g] Analysis by Edward S. Babcock and Sons, Riverside, California.

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-583b-G-18	Base Line Water Co., Puddingstone Well 2. SW. of La Verne; 600 feet S. of Walnut Ave., 480 feet W. of right angle turn in Walnut Ave. Use: Irrigation. Casing: 20 inches. Perforated 120-234. U. S. D. A. analysis on 10/22/31 is duplicate of D. W. R. Lab. No. 478.	3210A	985	*x275	478 (d)	10/22/31 10/22/31	45 8 45 9	0 22 0 23	58 61	180 183	14 18	61 58	2 3	29 29	8 5	66 c66
C-586-G-18	Bonita Water Co. La Verne; 80 feet S. of 6th St., 270 feet W. of D St. Use: Irrigation. Casing: 22 inches. Gravel processed well.	4439E	1,059	*x613	442	10/16/31	50 5	0.08	35	217	25	43	4	45	16	45
C-611-G-19	San Dimas Water Co., Yorba Well 1. S. of La Verne; 15 feet S. of La Verne Ave., 60 feet E. of Lincoln Ave. Use: Irrigation. Casing: 18 inches. Perforated 73-77; 109-131; 249-272; 293-327; 363-373.	3230	1,043	*x393	477	10/22/31	30 4	0 03	24	159	7	15	6	37	10	20
C-622a-G-19	La Verne Water Co. La Verne Heights; 250 feet N. 13° W. from intersection of Base Line Ave. and Live Oak Canyon Road. Use: Irrigation. Casing: 18 inches. Perforated 248-277; 365-401; 418-432; 455-465; 490-496; 506-510.	4458E	1,285	*530	443	10/16/31	36 9	0 47	48	143	12	30	13	27	8	42
C-649e-G-19	City of Pomona, Well 3. Pomona; 750 feet S. of La Verne Ave., 400 feet E. of Garey Ave. Use: Municipal. Casing: 14 inches. Perforated 116-142; 168-176; 312-316; 444-450; 480-492; 506-552; 640-662.	3241E	990	*x676	(c)	5/18/31	.....	.....	.....	157	9	b20	.....	.....	.....	.....
C-656j-F-20	A. G. McKenna. N. of Claremont; 0.16 mile N. of Base Line Ave., 40 feet W. of Bonnie Brae Ave. Use: Irrigation. Casing: 20 inches. Gravel 709-730.	4487G	1,466	*767	444	10/16/31	32 6	0 08	22	174	2	24	2	43	8	18
C-663n-G-19	H. H. Garner. Claremont; 85 feet S. of 10th St., 190 feet W. of Yale Ave. Use: Irrigation. Casing: 15 inches.	4489	1,228	*550	445	10/16/31	32 5	0 01	10	183	2	17	2	48	12	9
C-665-G-20	Del Monte Irrigation Co., Well 226. Claremont; 110 feet E. of College Ave., 56 feet S. of A. T. & S. F. Ry. East well of two. Use: Irrigation. Casing: 16 inches. Perforated 170-435. U. S. D. A. analysis on 10/22/31 is duplicate of D. W. R. Lab. No. 475.	3280J	1,150	*x450	475 (d)	10/22/31 10/22/31	26 9 26 9	0 06 0 03	54 51	143 150	5 5	15 13	2 2	22 24	4 2	38 c34
C-667i-G-19	City of Pomona, Well 1. Pomona; 580 feet N. of Aliso St., 240 feet W. of P. E. Ry., E. of Garey Ave. Use: Municipal. Casing: 16 inches. Perforated 90-790.	3241H	960	*x831	(c)	5/18/31	.....	.....	.....	105	8	b15	.....	.....	.....	.....
C-667j-G-19	City of Pomona, Well 7. Pomona; 700 feet N. of La Verne Ave., 50 feet E. of Towne Ave. Use: Municipal. Casing: 14 inches. Gravel 223-233; 298-307; 364-393; 462-466; 482-513; 564-570; 581-624; 634-659; 670-682; 687-710.	3261C	980	*x734	(c)	5/18/31	.....	.....	.....	146	12	b35	.....	.....	.....	.....
C-667k-G-19	City of Pomona, Well 8. Pomona; 1300 feet N. of La Verne Ave., 900 feet W. of Towne Ave. Use: Municipal. Gravel 107-222; 298-320; 329-335; 392-420; 431-477; 485-521; 523-525; 586-603; 623-654; 774-786; 792-807; 815-827.	3251E	1,017	*900	(c)	5/18/31	.....	.....	.....	151	7	b34	.....	.....	.....	.....
C-670s-G-19	Pomona Irrigation Co. Pomona; 120 feet NE. of Willow St., 335 feet NW. of Orange Grove Ave. Use: Irrigation. Casing: 16 inches. Perforated 520-530; 575-594; 600-620. U. S. D. A. analysis on 10/22/31 is duplicate of D. W. R. Lab. No. 476.	3252F	952	*690	476 (d)	10/22/31 10/22/31	26 4 26 4	0 06 0 10	88 95	a137 a179	4 5	19 18	4 4	4 3	2 Tr.	62 62
C-673-H-19	East End Irrigation Co. Pomona; 25 feet S. of First St., 80 feet W. of East End Ave. Use: Irrigation.	3274	900	x455	473	10/22/31	38 4	0 02	12	177	9	18	22	53	13	12
D-701a-F-20	City of Upland, Well 1. NW. of Upland; 0.24 mile W. of Mountain Ave., 30 feet S. of 26th St. Use: Municipal. Casing: Shaft. Gravel 0-192.	4524A	2,160	*192	567	12/ 1/31	37 2	0 17	10	207	4	24	2	54	13	10
D-705g-F-20	City of Upland, Well 5. NW. of Upland; 0.13 mile N. of 21st St., 0.13 mile E. of Mountain Ave. Use: Municipal. Casing: 24 inches. Perforated 230-460.	4535B	1,855	*x491	568	12/ 1/31	34 5	0.17	13	183	4	18	6	46	11	11
D-707-F-21	San Antonio Water Co., Well 15, Paul Well. N. of Upland; 50 feet S. of 23d St., 0.36 mile E. of Euclid Ave. Use: Irrigation. Casing: 12 inches. Gravel 260-278; 420-456; 508-523; 557-564; 608-620; 759-771; 773-804; 815-822; 836-878; 884-891; 893-895; 897-902; 906-911; 920-936; 942-964.	4555	1,836	*x1,000	(f) 447	8/26/29 10/16/31	..... 30 7	..... 0 01	10 13	177 171	4 4	22 14	Tr. 4	47 43	9 11	c8 10
D-711-F-20	Euclid Water Co., Well 1. W. of Upland; 130 feet W. of Benson Ave., 0.29 mile N. of Base Line Road. Use: Irrigation. Gravel 324-387; 581-590; 599-628; 633-653.	4517F	1,630	*x679	449	10/16/31	29 0	Tr.	55	146	4	28	1	21	6	42

TABLE 17. WELLS IN CHINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
D 711c F 20	Euclid Water Co., Well 6. NW. of Upland; 0.38 mile W. of Benson Ave., 0.38 mile N. of Base Line Ave. Use: Irrigation. Casing: 20 inches. Perforated 275-325; 475-520; 550-620; 675-700.	4517D	1,650	*x762	450	10/16/31	33.3	0.03		186	5					
D 716 G 21	City of Upland, Well 7. Upland; 0.10 mile W. of Campus Ave., 200 feet S. of 9th St. Use: Municipal. Casing: 24 inches. Perforated 443-880.	17650	1,214	*x901	569	12/ 1/31	33.7	0.14	17	189	6	7	7	49	8	14
D 722c G 20	Limited Mutual Water Co., Well 1. W. of Ontario; 60 feet S. of 8th St., 1200 feet E. of Central Ave. Use: Irrigation and domestic. Casing: 16 inches.	17610	1,182	x660	574	12/ 2/31	35.1	0.13	12	201	2	14	4	51	13	11
D-722d-G 20	Limited Mutual Water Co., Well 3. W. of Upland; 100 feet S. of 8th St., 0.22 mile E. of Central Ave. Use: Irrigation and domestic. Casing: 20 inches. Perforated 334-339; 354-452; 462-474; 486-500; 510-568; 598-618; 623-652; 659-664.	17610A	1,158	*x664	573	12/ 2/31	33.3	0.12		189	0					
D 726b H 21	City of Ontario, Well 2. E. of Ontario; 85 feet S. of 4th St., 300 feet E. of Cucamonga Ave. Use: Municipal. Casing: 16 inches.	17662A	1,064	x600	(c)	4/17/31				199	10	b20				
D 726c H-21	City of Ontario, Well 4. E. of Ontario; 90 feet S. of 4th St., 300 feet E. of Grove Ave. Use: Municipal. Casing: 20 inches. Gravel 298-320; 322-337; 376-410; 424-447; 452-461.	17672A	1,056	*x600	(c) 570	4/17/31 12/ 1/31	34.2	0.15	17	183 183	10 6	b25 14	6	47	10	15
D-732-H 20	Ramona Mutual Irrigation Co. E. of Pomona; 30 feet S. of 5th St., 800 feet E. of Ramona Ave. Use: Irrigation. Casing: 14 inches. Gravel 249-270; 280-312; 363-370; 414-430. U. S. D. A. analysis on 10/22/31 is duplicate of D. W. R. Lab. No. 474.	3294A	1,070	*x441	474 (d)	10/22/31 10/22/31	34.8 34.7	0.03 0.11	10 27	186 195	7 7	17 11	7 2	53 53	12 1	9 c23
D 735a H-21	City of Ontario, Well 5. Ontario; 350 feet W. of Euclid Ave., 600 feet S. of Dessau Ave. Use: Municipal. Casing: 26 inches. Gravel 186-190; 201-286; 345-405; 411-445; 542-550; 642-652. Casing plugged at 507 feet.	17645	921	*x672	(c) 571	4/17/31 12/ 1/31	39.5	0.15	17	201 207	13 9	b8 9	18	51	14	17
D-740a-H-20	City of Chino, Well 3. N. of Chino; 445 feet W. of Central Ave., 400 feet S. of Phillips Blvd. Use: Municipal. Casing: 16 inches. Perforated 230-245; 278-300; 330-344; 370-383; 393-396; 414-418; 428-435; 443-450.	17605	881	*x453	(c)	5/18/31				190	9	b8				
D-740b H-20	City of Chino, Well 1. N. of Chino; 75 feet S. of Phillips Blvd., 260 feet W. of Central Ave. Use: Municipal. Casing: 16 inches. Gravel 140-150; 230-250; 274-280; 366-374.	17615A	890	*x402	(c) 566	5/18/31 12/ 1/31	33.6	0.16	11	197 189	9 2	b8 13	4	49	10	9
D-740h-H-20	City of Chino, Well 2. N. of Chino; 15 feet S. of Phillips Blvd., 610 feet W. of Central Ave. Use: Municipal. Casing: 16 inches. Perforated 228-256; 272-301; 322-328; 331-394.	17605C	885	*400	(c)	5/18/31				195	12	b10				
D-741h-I-20	John Weiss. N. of Chino; 150 feet W. of Telephone Ave., 30 feet S. of Philadelphia Ave. (Ely St.). Use: Domestic. Casing: 6 inches.	17606C	806	x175	565	12/ 1/31	42.3	0.22	18	217	13	13	10	53	14	20
D 747e I-21	H. F. Brown et al. S. of Ontario; 600 feet S. of Walnut Ave., 800 feet E. of Euclid Ave. Use: Domestic and irrigation.	17657B	811	300	579	12/ 2/31	39.4	0.02	17	210	11	5	6	49	13	17
D-754L-I-19	B. B. Labaw. W. of Chino; 125 feet S. of Riverside Ave., 35 feet W. of East End Ave. Use: Domestic and irrigation. Casing: 12 inches. Perforated 140-151; 200-208; 238-245; 266-270. U. S. D. A. analysis on 10/22/31 is duplicate of D. W. R. Lab. No. 472.	3278I	738	*273	472 (d)	10/22/31 10/22/31	33.8 34.0	0.06 0.06	18 16	186 192	5 7	16 12	4 3	46 47	11 9	16 c13
D-759a-I-20	W. M. Freeman. S. of Chino; 135 feet S. of Shaefer Ave., 95 feet W. of 12th Ave. Use: Domestic. Casing: 7 inches.	17619A	696	x90	564	12/ 1/31	30.1	0.20		171	6					
D-759c-I-20	Gunn and Oathis. Chino; 0.25 mile E. of Central Ave., 0.25 mile S. of Shaefer Ave. Use: Domestic and irrigation. Casing: 12 inches. Perforated 147-159; 205-250.	17619D	681	*250	572	12/ 1/31	30.2	0.13	20	171	0	17	1	39	10	16
D-759d-I-20	Southern California Edison Co., Ltd. Chino; 100 feet N. of Edison Ave., 30 feet W. of Benson Ave. (15th St.). Use: Domestic and industrial. Perforated 100-106; 126-134.	16710A	670	*x202	1774	2/23/33	31.5	0.03		171	2					
D-762-I-21	George Bird. E. of Chino; 90 feet S. of Shaefer Ave., 0.36 mile E. of Euclid Ave. Use: Domestic.	17659	723	x	575	12/ 2/31	94.1	0.10	11	220	160	46	4	117	34	24

TABLE 17. WELLS IN CHINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
D-762a-I-21	Earl Thomas. SE. of Chino; 150 feet S. of Edison Ave., 0.2 mile W. of Bon View Ave. Use: Irrigation and domestic. Casing: 14 inches. Gravel 44-60; 146-154; 193-199.	16750	695	*240	1779	2/23/33	38.7	0.04	20	198	9	12	9	46	13	19
D-762g-I-21	F. A. Helsley. E. of Chino; 150 feet S. of Shaefer Ave., 0.30 mile W. of Bon View Ave. Use: Domestic. Casing: 6 inches.	17659B	720	80	576	12/ 2/31	57.2	0.13	14	281	28	17	8	76	19	21
D-768a-J-19	Joe Valpreda. S. of Chino; 200 feet W. of Pipe Line Ave., 140 feet N. of Carbon Canyon Road (Merrill Ave). Use: Domestic and irrigation. Casing: 10 inches.	1981A	658	x85	1773	2/23/33	84.1	0.28	44	327	71	53	13	60	24	88
D-771c-J-20	Gilbert Kreamer. S. of Chino; 225 feet E. of Prado Road, 0.58 mile S. of intersection of Home Ranch Ave. and Prado Road. Use: Domestic and irrigation. Casing: 16 inches.	16713	584	x175	1775	2/23/33	32.8	0.04	24	174	4	20	0	38	11	21
D-772b-J-20	R. Robles and J. Yahiro. S. of Chino; 45 feet S. of Robles Ave., 45 feet W. of Magnolia Ave., extended. Use: Irrigation and domestic.	16723A	580	154	1776	2/23/33	30.9	0.04	25	168	2	17	6	37	10	21
D-775-J-21	J. F. Catlett. SE. of Chino; 0.59 mile E. of Euclid Ave., 270 feet N. of Pine Ave. Use: Domestic. Casing: 7 inches.	16754	570	x140	1780	2/23/33	30.2	0.04	47	149	4	12	7	25	6	36
D-780a-K-20	Sonoria Meredith. S. of Chino; 0.25 mile S. of Pine Ave., 350 feet W. of Prado Road. Use: Irrigation and domestic. Casing: 12 inches.	16735C	540	64	1777	2/23/33	104	0.14	37	336	57	186	11	110	35	72
D-781c-K-21	L. Richenberger. S. of Chino; 65 feet E. of intersection of Prado Road and Pioneer Road. Use: Domestic and irrigation. Casing: 8 inches.	16746C	510	119	1778	2/23/33	71.7	0.08	26	265	28	114	5	78	22	46
D-782a-K-21	Owner unknown. W. of Norco; 350 feet N. of McCarty Ave., 4000 feet W. of Hellman Ave. Use: Domestic. Bailey No. 374A.	16776A	505	.....	(1) (1)	9/13/31 11/24/31	48 48	....	54 55	198 186	18 21	43 27	....	28 25	9 8	c57 c53
D-783a-K-21	Mike O'Neil. NW. of Prado; 0.5 mile E. of Prado Road along road 0.5 mile S. of Pioneer School, 100 feet S. of road, 200 feet E. of China Creek. Use: Domestic. Casing: 7 inches. Bailey No. 378B.	16767A	491	x.....	(1) (1) (1)	9/13/31 10/ 5/31 11/24/31	134 118 116	....	47 51	592 604	36 32 28	175 68	....	87 71	39 29	c155 ..... c142
D-789a-L-21	I. V. Ashcroft. SE. of Chino; 405 feet E. of Prado Road, 0.23 mile S. of Serrano Road. Use: Domestic and irrigation. Casing: 7 inches. Bailey No. 3719A.	15850A	471	x45	(1) (1) (1)	9/13/31 11/24/31 10/ 5/31	73 70 72	....	24 21	265 266	27 28 27	89 87	.. ..	64 66	25 26	c38 c34 .....
D-789d-L-21	United States Geological Survey, Test Well D. NW. of Prado; 30 feet S. of Prado (Rincon) Road, 0.25 mile W. of the Santa Ana River, 0.25 mile E. of Chino Creek.	15860B	469	x.....	791	3/ 9/32	115	0.11	.....	360	53	.....	.....	.....	.....	
D-801c-K-21	McCarty Bros. W. of Norco; 0.4 mile S. of Chandler St., 100 feet W. of Hellman Ave. Use: Domestic. Casing: 6 inches.	16785B	566	x32	1782	2/23/33	58.2	0.08	33	265	32	30	3	58	16	48
D-802b-K-21	Chino Gun Club. W. of Norco; 3000 feet S. of McCarty Ave., 3400 feet E. of Serrano Road, 700 feet W. of Chino Gun Club Road. Use: Domestic. Bailey No. 379B.	16777A	500	.....	(1) (1) (1)	9/23/31 10/ 5/31 12/19/31	63 64 65	....	..... 17 28	.. 305 315	25 25 28	.. 43 39	....	..... 79 73	..... 19 15	... c25 c43
D-802d-K-21	A. R. McCarty. W. of Norco; 150 feet S. of McCarty Ave., 1100 feet W. of Hellman Ave. Use: Domestic.	16786	545	45	1783	2/23/33	78.5	0.08	26	412	28	24	18	93	23	52
D-802e-K-21	McCarty Bros. W. of Norco; 0.47 mile W. of Hellman Ave., 300 feet S. of McCarty Ave. Use: Irrigation. Bailey No. 379C.	16787A	520	.....	(1) (1)	10/ 5/31 11/24/31	76 83	....	....	....	32 32	.....	.....	.....	.....	.....
D-803-K-21	United States Geological Survey, Test Well E-1. N. of Prado; 2400 feet E. of Serrano Road from turn, 2700 feet SE. of Chino Gun Club Road, 1000 feet N. of Santa Ana River. Use: U. S. G. S. Recorder Well. Casing: 4'x4' dug well.	16779B	480	4	1381	9/15/32	68.4	0.26	.....	329	43					
D-803a-K-21	United States Geological Survey, Test Well E-2. N. of Prado; 2400 feet E. of Serrano Road from turn, 3200 feet SE. of Chino Gun Club Road, 600 feet SE. of U. S. G. S. Well E-1. Use: U. S. G. S. Recorder Well. Casing: 4'x4' dug well.	16779C	480	6	1382	9/15/32	100	0.21	.....	357	119					.....
D-803b-K-21	United States Geological Survey, Test Well E-3. N. of Prado; 30 feet N. of edge of active channel of Santa Ana River, 500 feet downstream from intersection of Yorba St., extended. Use: U. S. G. S. Recorder Well. Casing: 4'x4' dug well.	16779D	475	8	1383	9/15/32	184	0.48	.....	503	320	.....	.....	.....	.....	.....

TABLE 17. WELLS IN CHINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
D-812-K-22	McCarty Bros., Well 2. W. of Norco; 40 feet N. of McCarty Ave. (Chino-Corona Blvd.), 640 feet E. of Hellman Ave. Use: Irrigation. Casing: 16 inches. Bailey No. 373B.	16796	562	x310	(i)	9/22/31	38	.....	.....	.....	18	.....	.....	.....	.....	.....
D-813-K-22	J. T. Hamner. W. of Norco; 600 feet E. of Archibald Ave., 3900 feet S. of Chandler Ave. on east line of private drive. Use: Domestic. Casing: 7 inches. Bailey No. 372B.	16816	546	x	(i)	9/22/31	43	.....	17	214	18	16		53	11	[c]17
					(i)	10/ 5/31	43	.....	.....	.....	18	.....	.....	.....	.....	.....
					(i)	11/24/31	50	.....	21	247	21	18	.....	56	14	[c]24
					1786	2/23/33	44 2	0 02	22	232	14	8	10	54	13	25
D-904b-J-21	C. T Merrill. SE. of Chino; 30 feet W. of Walker Ave., 300 feet S. of Merrill Ave. Use: Irrigation and domestic. Casing: 14 inches.	16781	657	x207	1781	2/23/33	61 4	0 04	17	332	14	12	27	76	24	28
D-909a-J-22	John Irobach. NW. of Norco; 180 feet W. of Archibald Ave., 10 feet S. of Cloverdale Road, extended. Use: Irrigation and domestic. Casing: 16 inches.	16802	643	x310	1784	2/21/33	89 5	0 04	.....	363	78	.....	.....	.....	.....	.....
D-909d-J-22	John Irobach. NW. of Norco; 230 feet W. of Archibald Ave., 10 feet S. of Cloverdale Road, extended, 50 feet W. of Well D-909a J-22. Use: Domestic.	16802A	642	310	1785	2/21/33	89 9	0 05	15	375	77	44	8	111	33	34
D-910c-I 22	E. B. Covington. E. of Chino; 0.55 mile S. of Chino Ave., 0.2 mile W. of Archibald Ave. Use: Domestic. Casing: 16 inches. Gravel 94-106; 118-130; 266-270; 290-298; 310-342; 354 362; 378-394; 398 424.	17709A	726	*436	477	12/ 2/31	33 1	0 12	23	183	4	13	4	40	10	19
D-911f-I-22	George Buccola. E. of Chino; 120 feet S. of Chino Ave., 0.4 mile W. of Archibald Ave. Use: Domestic.	17698E	752	.....	580	12/ 2/31	54 0	0 17	15	195	39	14	18	63	18	19
D-918d-J-22	Bert Gratzinger. N. of Norco; 400 feet N. of Citrus St., 0.15 mile W. of Sumner Ave. Use: Irrigation and domestic. Casing: 12 inches.	16824B	600	x196	1787	2/21/33	69 8	0 02	23	314	45	29	13	79	20	38
D-921b-J-22	Wm. Poulson. N. of Norco; 150 feet W. of Cleveland Ave., 2400 feet N. of Cloverdale Road. Use: Irrigation and domestic.	16831A	675	500	1789	2/21/33	19 8	0 02	42	[a]94	6	6	0	11	7	20
D-925-I-23	A. T. Galloway (formerly Mrs. M. L. Johnson). SE. of Ontario; 300 feet N. of Riverside Blvd., 1000 feet E. of Adams Ave. Use: Domestic.	17746A	798	175	508	11/13/31	38 2	0 04	27	180	23	6	9	43	12	26
D-927b-I-23	John Knauss. N. of Norco; 0.51 mile N. of Belle Grove Ave., 0.45 mile E. of Adams Ave. Use: Irrigation and domestic. Casing: 12 inches. Perforated 78-80; 156-238; 240-278; 280-336.	16850C	725	*300	1790	2/21/33	36 7	0 02	23	189	9	6	8	49	7	21
D-932-J 23	A. Luebkeman. NE. of Norco; 225 feet S. of Olive St. (River Road), 0.45 mile E. of Wineville Ave. Use: Irrigation. Casing: 14 inches Gravel 18-25; 78 182.	16863	607	*x202	1792	2/23/33	21 9	0 01	42	[a]95	11	9	Tr.	19	5	23
D-934-I 23	C. N. Marietta. NE. of Norco; 600 feet E. of Wineville Ave., 130 feet N. of Belle Grove Ave. Use: Domestic. Casing: 7 inches.	16860	714	x104	1791	2/ 2/33	71 5	0 02	18	186	98	34	8	98	10	29
D-935a-I-23	H. H. Kuhlman and A. W. Church. E. of Chino; 300 feet W. of Etiwanda Ave., 0.28 mile N. of Belle Grove Ave. Use: Irrigation and domestic. Casing: 12 inches.	17779	762	x400	497	11/12/31	35 3	0 08	26	168	18	14	6	45	6	23
D-935b-I-23	Chas. E. Faulhaber. E. of Chino; 115 feet W. of Etiwanda Ave., 405 feet S. of Riverside Ave. Use: Domestic. Casing: 7 inches.	17778A	785	x149	502	11/12/31	41 1	0.03	.....	180	20	.....	.....	.....	.....	.....
D-936-I-23	Chas. Stern and Sons. S. of Etiwanda; 180 feet W. of Etiwanda Ave., 78 feet S. of County Line Road. Use: Irrigation and domestic. Casing: 20 inches. Gravel 150-162; 194-200; 206-210; 230 245; 288-370; 376-389; 405-420.	17776	845	*x438	498	11/12/31	32 1	0 04	24	177	7	12	4	43	7	20
D-939-I-23	Santa Ana River Water Co. NE. of Norco; 250 feet N. of Weller St., 270 feet E. of Martin Ave., 850 feet S. of Belle Grove Ave. Use: Irrigation and domestic. Casing: 16 inches.	16880A	727	x250	1793	2/27/33	43 0	0 01	24	174	32	10	5	56	7	24
D-940a-J-23	Santa Ana River Water Co., NE. of Norco; 75 feet S. of Malachite St., 0.70 mile E. of Etiwanda Ave. Use: Irrigation and domestic. Casing: 10 inches.	16880C	689	x200	1794	2/23/33	56 2	0 06	30	159	60	34	5	64	7	3
D-952 J-24	Jurupa Heights Water Co., Well 1. W. of Pedley; 50 feet S. of Limonite Ave., 0.61 mile W. of Garnet St. Use: Irrigation and domestic. Casing: 16 inches. Gravel 97-100; 101 113.	16912	690	*114	1795	2/21/33	57 9	0 21	43	134	77	36	8	36	16	58

TABLE 17. WELLS IN CHINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
D-952a-J-24	Jurupa Heights Water Co., Well 2. N. of Pedley; 110 feet S. of Pedley St., 50 feet E. of U. P. R. R. Use: Irrigation and domestic.	16921	730	x120	1796	2/21/33	76.1	0.16	35	201	84	58	13	58	26	62
D-959-I-24	J. C. Cote. NW. of Riverside; 300 feet E. of Agate St., 150 feet S. of Mission Blvd. Use: Domestic. Casing: 6 inches.	17828	796	x36	496	11/12/31	67.2	0.22	30	339	23	56	8	52	36	54
D-968a-J-25	Mr. McIntosh. W. of Riverside; 400 feet SE. of Riverview Drive, 0.45 miles SW. of Limonite Ave., 1200 feet NE. of U. P. R. R. Use: Irrigation and domestic.	16962A	728	x	1798	2/27/33	67.7	0.11	21	354	16	47	2	84	22	38
D-968b-J-25	City of Riverside. W. of Riverside; 0.53 mile SE. of Riverview Drive, 0.38 mile S. of Sewer Farm Road, which is 1.5 miles SW. of Mission Blvd. Use: Domestic. Casing: 8 inches.	16972	735	46	1799	2/27/33	95.9	0.14	31	387	87	56	Tr.	102	25	73
D-971a-I-25	A. B. Long. West Riverside; 150 feet N. of Mission Blvd., 100 feet W. of Opal Ave. Use: Domestic. Casing: 6 inches.	17879A	865	96	501	11/12/31	79.4	0.14	.....	326	48	.....				
D-975c-I-25	E. K. Smith. West Riverside; 200 feet SE. of A St., 0.2 mile NE. of Wilson St., 1500 feet SW. of First St. Use: Domestic.	17899D	816	x70	495	11/12/31	87.2	0.19	33	357	59	82	9	81	30	73
D-975d-I-25	W. S. Pitney. West Riverside; 0.25 mile SE. of Riverview Drive, 0.6 mile SW. of intersection of Riverview Drive and Mission Blvd. Use: Domestic. Casing: 5′x5′ dug well.	16980A	770	x23	1800	2/27/33	129	0.22	32	418	156	74	13	112	43	97
D-984k-I-26	Riverside Cement Co., Mine Sump Drift. NW. of Riverside; 1500 feet E. of Crestmore Road (A St.), 1200 feet NW. of Canal St. Use: Industrial. Flow 110 inches. Top of sump is elevation 633 feet. Owner believes water rises through limestone lenses from great depth.	17917D	900	267	924	4/28/32	62.2	0.02	23	174	89	27	7	73	14	33
D-1001b-G-21	Cucamonga Water Co., Well 6. E. of Upland; 0.11 mile S. of Base Line Ave., 195 feet W. of Cornelian St. Use: Irrigation. Casing: 12 inches.	4587J	1,420	x365	608	12/16/31	27.9	0.01	22	143	6	16	4	34	10	16
D-1002b-G-21	Arrow Route Water Co. E. of Ontario; 650 feet W. of Vineyard Ave., 106 feet S. of Arrow Highway. Use: Irrigation. Casing: 16 inches. Perforated 378-420; 428-491; 510-517; 530-536; 590-630; 651-670; 674-700; 722-728.	17680	1,164	*x745	563	12/ 1/31	35.1	0.19		189	6	.....	.....	.....	.....	
D-1007a-H-22	Ralph Weiler. SE. of Ontario; 140 feet E. of Vineyard Ave., 85 feet S. of Francis St. Use: Irrigation and domestic.	17685	866	x.....	578	12/ 2/31	36.3	0.12	18	183	11	13	7	44	12	16
D-1012a-G-22	Old Settlers Water Co., Well 1. S. of Alta Loma; 1330 feet S. of Base Line Ave., 680 feet W. of Archibald Ave., 20 feet S., 20 feet W. from NE. corner of Lot 7, Cucamonga Fruit Lands. Use: Irrigation. Casing: 15 inches.	18508	1,322	x448	([d])	8/ 5/31	36.8	Tr.	18	201	7	21	9	47	12	[c]16
D-1016-H-22	Mr. Signorio. N. of Guasti; 675 feet S. of 4th St. (San Bernar-Bernardino Ave.), 0.21 mile E. of Archibald Ave. Use: Irrigation and domestic. Casing: 16 inches. Gravel 234-254; 306-353; 372-401; 409-429.	17712	1,016	*x507	500	11/12/31	37.3	0.02	19	207	9	7	9	49	12	19
D-1024-G-22	Mission Vineyard Co. NW. of Etiwanda; 30 feet S. of Base Line Ave., 0.86 mile W. of Orange St., 0.94 mile E. of Haven Ave. Use: Irrigation. Casing: 20 inches. Gravel 522-525; 540-555; 597-750; 756-762; 780-783; 926-964.	18547A	1,331	*x964	1430	9/23/32	35.8	0.01	13	186	4	11	1	55	9	12
D-1029-H-23	Nando Miglietta (formerly Mrs. M. S. Spardly). E. of Guasti; 0.35 mile E. of Orange St., 845 feet S. of S. P. R. R. Use: Domestic. Casing: 7 inches.	17763	974	x280	499	11/12/31	39.5	0.03	30	207	18	6	6	42	11	39
D-1042a-H-23	S. S. Swanson. S. of Etiwanda; 0.4 mile N. of Marley Ave., 0.57 mile E. of Etiwanda Ave. Use: Domestic. Casing: 10 inches.	17785A	910	x146	503	11/12/31	39.8	0.06	..	192	27				.....	
D-1050-G-24	Fontana Union Water Co., F. U. Well 17. E. of Etiwanda; 75 feet E. of Cherry Ave., 110 feet S. of A. T. & S. F. Ry., 500 feet N. of Merrill Ave. Use: Irrigation. Casing: 20 inches. Gravel 380-406; 410-438; 450-460; 466-474; 480-490; 498-632; 680-712.	17810	1,165	*x845	505	11/13/31	35.5	0.08	19	192	9	5	6	50	8	17
D-1056-H-24	Fontana Union Water Co., F. U. Well 5. SW. of Fontana; 30 feet S. of Slover Ave., 50 feet W. of Poplar Ave. Use: Irrigation. Casing: 16 inches. Gravel 250-276; 418-446; 520-540; 560-586.	17833	1,052	*x854	506	11/13/31	33.8	0.01	21	174	9	12	6	49	7	18

TABLE 17. WELLS IN CHINO AREA – Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10 at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
D-1061-G-25	Fontana Union Water Co., F. U. Well 31. W. of Rialto; 40 feet S. of Base Line Ave., 310 feet E. of Citrus Ave. Use: Irrigation and domestic. Casing: 20 inches. Perforated 640-761.	18647	1,396	*x761	604	12/15/31	33.2	0.02	22	201	9	3	3	46	7	19
D-1062-G-25	Fontana Union Water Co., New F. U. Well 11. Fontana; 100 feet S. of A. T. & S. F. Ry., 40 feet E. of Juniper Ave. Use: Domestic and irrigation. Casing: 20 inches. Perforated 700-852.	17850	1,247	*x872	509	11/13/31	31.4	0.06		180	5	..	.	. ..	.	
D-1064a-H-25	Fontana Union Water Co., F. U. Well 15. S. of Fontana; 30 feet S. of San Bernardino Ave., 0.13 mile W. of Magnolia Ave. Use: Irrigation. Casing: 20 inches. Gravel 318-332; 388-430; 444-464; 484-496; 500-546; 554-590; 596-630; 638-646; 650-680.	17862	1,156	*x808	510	11/13/31	33.4	0.03		180	7	....	.		.... .	..
D-1072a-G-25	Fontana Union Water Co., F. U. Well 23. W. of Rialto; 55 feet S. of Base Line Ave., 634 feet W. of Alder Ave. Use: Irrigation and domestic. Gravel 260-304; 328-346; 364-398; 462-480; 510-543.	18677A	1,409	*x543	605	12/15/31	31.8	0.11	13	183	6	9	2	50	8	11
D-1073-G-25	West Rialto Water Co., Well 1. W. of Rialto; 425 feet W. of Laurel Ave., 716 feet S. of Base Line Ave., 30 feet S. of Well 2. Use: Irrigation.	18688	1,390	x536	1432	9/23/32	31.1	0.01	13	174	2	7	1	46	9	10
D-1075-G-25	Fontana Union Water Co., F. U. Well 12. N. of Bloomington; 75 feet S. of Randall Ave., 400 feet W. of Lindeo Ave. Use: Irrigation. Casing: 16 inches. Gravel 319-376; 465-468; 545-548; 635-637.	17891	1,178	*x734	511	11/13/31	41.7	0.02	.....	207	20	.....	.....	.....	.....	.....
D-1075a-G-25	Fontana Union Water Co., F. U. Well 28. E. of Fontana; 45 feet S. of Merrill Ave., 265 feet W. of Locust Ave. Use: Irrigation. Casing: 20 inches. Perforated 364-386; 390-398; 410-420; 472-490. U. S. D. A. analysis on 11/13/31 is duplicate of D. W. R. Lab. No. 507.	17880	1,227	*x531	507 (d)	11/13/31 11/13/31	44.5 46.3	0.17 0.16	21 24	223 220	23 21	12 11	9 16	57 57	13 9	24 c26
D-1079b-H-26	Crestmore Ranch. S. of Bloomington; 425 feet E. of Linden Ave., 185 feet S. of Jurupa Ave. Use: Irrigation and domestic.	17895	997	.....	504	11/13/31	44.3	0.03	18	195	25	19	9	63	10	20
D-1082-G-26	American States Water Service Co., Well 1. NE. of Bloomington; 700 feet N. of Randall Ave., 40 feet E. of Larch Ave. Use: Municipal. Casing: 16 inches. Perforated 228-230; 254-280; 290-307; 328-366; 485-500; 575-602.	17901	1,180	*620	610	12/17/31	38.7	0.02	17	189	18	9	8	56	9	17
D-1085-G-26	Lytle Creek Water and Improvement Co., Willow St. Well. Rialto; 1800 feet N. of Foothill Blvd., 200 feet E. of Willow Ave. Use: Irrigation. Gravel 107-250; 252-256; 260-284; 294-296; 310-370; 380-382; 388-402; 414-436; 436-580; 618-632; 684-748; 782-787.	18728	1,297	*828	1312	9/2/32	31.8	0.01	15	180	4	2	1	48	8	12
D-1091a-H-26	Jurupa Water Co., Plant 1. SW. of Colton; 2810 feet S. and 310 feet W. of the center of Sec. 25, T. 1 S., R. 5 W., S. B. B. & M., 150 feet N. of Aqua Mansa Road. Use: Irrigation. Casing: 12 inches.	17945B	900	300	(a)	Sept., 1918	.....	.....	5	185	9	18	6	45	19	c4
D-1092c-H-26	Twin Buttes Water Co., Plant 6. SW. of Colton; 1310 feet S. and 800 feet W. of the E.¼ corner, Sec. 25, T. 1 S., R. 4 W., S. B. B. & M., 50 feet N. of Aqua Mansa Road. Use: Irrigation.	17944	875	*275	(a) (h)	1/28/20 8/5/29	....	....	35 11	256 183	252 17	94 46	1	120 63	32 10	c106 c11
D-1092h-H-26	Jurupa Water Co., Plant 1½. SW. of Colton; 2490 feet S. and 20 feet W. of the center of Sec. 25, T. 1 S., R. 5 W., S. B. B. & M., 100 feet N. of Aqua Mansa Road. Use: Irrigation. Casing: 12 inches.	17945	900	150	(a)	Sept., 1918	.. ....	.....	38	185	9	17	7	32	10	c34
D-1105c-F-21	San Antonio Water Co. (formerly), Plant 13, Rex Well. E. of Upland; 25 feet W. of Cornelian St., 70 feet N. of Orange St. Use: Irrigation. Casing: 16 inches.	4586	1,648	x575	(a)	Nov., 1918	.....	. . .	35	a100	9	13	9	21	6	c19
D-1106d-F-22	Upland Water Co., NE. of Upland; 1360 feet E. of Cornelian St., 103 feet S. of 19th St. Use: Irrigation. Perforated 273-282; 297-306; 321-324; 326-345; 347-393; 396-418; 439-449; 474-489; 664-686.	4586D	1,542	*x702	448	10/16/31	38.9	Tr.	22	174	9	42	7	42	15	21
D-1106h-F-21	San Antonio Water Co., Well 3. E. of Upland; 440 feet S. of 17th St., 1250 feet E. of Cucamonga Ave., 635 feet E. and 190 feet N. of SW. corner of Lot 383, Ontario Colony Lands. Use: Irrigation. Casing: 12 inches. Perforated 100-912.	4577C	1,490	*x928	(a) (f)	Nov., 1918 8/26/29	.....	....	16 16	a158 168	8 5	17 16	4 1	38 46	12 9	c13 c13

TABLE 17. WELLS IN CHINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
D-1107-F 22	Cucamonga Water Co., Well 2. E. of Upland; 925 feet N. of Base Line Ave., 500 feet E. of Vineyard Ave. Use: Irrigation and domestic. Gravel 174-212; 218-240; 249-255; 474-502; 509-538.	4597	1,465	*x538	609	12/16/31	42.5	0.01	30	177	9	61	4	45	13	33
D-1107m-F-22	Foothill Irrigation Co., Well 1. E. of Upland; 100 feet S. of Highland Ave., 450 feet W. of Archibald Ave. Use: Irrigation. Casing: 16 inches. Perforated 224-750.	18506H	1,498	*x762	(g)	Oct., 1918	.....	..	9	174	12	25	0	43	17	e8
D-1107o-F 22	Citrus Water Co., Well 1. N. of Alta Loma; 120 feet S. of 19th St., 50 feet E. of Amethyst Ave. Use: Irrigation and domestic. Casing: 32 inches.	18506B	1,492	x500	607	12/16/31	37.4	0.08	30	171	6	36	2	44	9	30
D-1108d-F-22	Foothill Irrigation Co., Well 5. N. of Alta Loma; 600 feet N. of Highland Ave., 20 feet E. of Amethyst St. Use: Irrigation. Casing: 20 inches. Perforated 288-646; 666-740; 820-867; 966-991.	18506L	1,572	*1,410	487	11/9/31	39.9	0.06	30	183	5	42	4	42	12	31
D-1116a-F 22	Schowalter Mutual Water Co., Well 2. NE. of Alta Loma; 0.23 mile E. of Turner (Hermosa) Ave., 20 feet N. of Ananas St. Use: Irrigation and domestic. Casing: 20 inches. Perforated 265-452; 462-466; 515-533; 605-620; 623-642.	18514	1,890	*750	613	12/17/31	30.0	Tr.	15	180	6	11	1	43	10	13
D-1116b-F 22	Schowalter Mutual Water Co., Well 1. NE. of Alta Loma; 0.1 mile E. of Hermosa Ave. (Turner Ave.), 0.24 mile N. of Ananas St. Use: Irrigation and domestic. Casing: 16 inches. Gravel 350-375; 390-420; 420-452; 480-505; 464-588.	18514A	1,945	*618	612	12/17/31	30.1	0.02	15	174	7	13	1	42	10	13
D-1117-F 22	Foothill Irrigation Co., Well 2. E. of Upland; 100 feet S. of Lemon St., 50 feet E. of Archibald Ave. Use: Irrigation and domestic.	18505	1,588	x500	(g)	Oct., 1918	....	.....	48	156	12	13	0	4	8	e18
D-1118-F-22	Foothill Irrigation Co., Well 3. E. of Upland; 20 feet E. of Archibald Ave., 25 feet N. of 19th St. Use: Not used, formerly irrigation.	18506D	1,491	x500	(g)	Oct., 1918	.....	.....	25	168	9	17	30	38	9	e20
D-1153-F 24	John Elletich. NW. of Fontana; 450 feet E. of San Sevain Road (Live Oak Ave.), 0.45 mile N. of Highland Ave. Use: Domestic. Dug well.	18625	1,482	300	611 1429	12/17/31 9/23/32	30.1 34.2	0.04 0.04	14 14	192 192	6 7	2 7	1 7	47 48	9 9	11 12
D-1156-F 24	T. S. N. Maloof. NW. of Fontana; 0.26 mile N. of Highland Ave., 0.49 mile E. of Lytle Creek Road, 40 feet N. of Hollywood Ave., 50 feet W. of Boston Ave. Use: Domestic. Casing: 16 inches. Perforated 695-778; 792-819; 853-893.	18645	1,537	*x915	603	12/15/31	34.8	0.05	19	207	7	4	4	47	10	17
D-1161-E 25	Fontana Union Water Co., F. U. Well 27, Intake Well. NW. of San Bernardino; 150 feet NE. of Lytle Creek Canyon Road, 1.26 miles NW. from Cajon Creek Road in Lytle Creek Canyon. Use: Irrigation. Casing: 6-foot concrete caisson.	19459	2,244	x113	1305	9/2/32	29.2	0.02	12	156	2	20	1	41	12	10
D-1170b-E-25	Fontana Union Water Co., F. U. Well 19. N. of Fontana; 300 feet SW. of Riverside Ave., 1.82 miles NW. of Linden Ave. Use: Domestic. Casing: 20 inches. Perforated 80-120; 176-208; 212-224.	18672	1,853	*x325	606	12/15/31	30.5	0.09	13	186	6	7	0	44	10	11
D-1177a-F 25	W. B. Brazelton. NE. of Fontana; 0.36 mile N. of Highland Ave., 50 feet W. of Linden Ave. Use: Irrigation. Casing: 16 inches. Perforated 440-495; 530-555; 608-623; 690-709; 720-730; 750-773.	18695	1501	*x779	1431	9/23/32	31.0	0.06	13	171	4	10	1	42	10	10
D-1181a-F 26	Fontana Union Water Co., F. U. Well 25, or T. & M. Well 3. NW. of San Bernardino; 0.38 mile NE. of Riverside Ave., from point 0.15 mile NW. of Fontana power house. Use: Irrigation and domestic. Casing: 20 inches. Gravel 205-718.	18703A	1,597	*x718	619	1/5/32	28.0	0.04	16	159	0	15	1	40	6	11
D-1181g-F 26	Fontana Union Water Co., F. U. Well 24, or T. & M. Well 2. NW. of San Bernardino; 0.23 mile NE. of Riverside Ave. from point 0.25 mile SE. of Fontana power house. Second well in pit, 100 feet from D-1181d-F-26. Use: Irrigation. Casing: 20 inches. Gravel 208-394.	18704C	1,566	*x407	1320	9/2/32	30.9	0.12	12	168	4	21	1	46	10	10
E-87-H-27	Riverside Water Co., Plant 1. S. of Colton; 750 feet S. of East N St., 350 feet W. of Mt. Vernon Ave., 40 feet E. of Riverside Water Co. canal. Use: Irrigation. Casing: 20 inches. Perforated 43-70; 83-97; 131-169.	17984	935	*189	(g)	8/1/30			.....	....	23	.	.	..		.

TABLE 17. WELLS IN CHINO AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10[6] at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million)						
										Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-87a-H 27	Riverside Water Co., Plant 2. S. of Colton; 1350 feet S. of East N St., 800 feet W. of Mt. Vernon Ave., 20 feet E. of Riverside Water Co.'s wooden flume across Santa Ana River, 60 feet S. of north end of flume. Use: Irrigation. Casing: 20 inches. Perforated 100-248; 290-354.	17984A	925	*403	(g)	8/ 1/30				-	30	...	...	...		

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.
[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[e] Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
[f] Analysis by Chaffey Junior College, Ontario, California.
[g] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[h] Analysis by Edward S. Babcock and Sons, Riverside, California.
[i] Analysis by Edward S. Babcock and Sons, Riverside, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillibridge, et al.) in the Superior Court of the State of California, in and for the County of Riverside.

TABLE 18. WELLS IN RIVERSIDE AREA

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-68i-1-26	Elliota Springs. NE. of Riverside; 380 feet SE. of Main St., 140 feet NE. of Strong St. Use: Swimming pool supply.	17939C		375	(e)	6/ 6/30	51 0	0 70	90	107	96	54		5	3	[b]116
E-69-1-26	Riverside Water Co., Spanish Town Well. NE. of Riverside; 135 feet N. of Chase Road, extended, 130 feet W. of Orange St. At edge of Santa Ana River bottom. Use: Irrigation.	17948	835	x	(d)	Feb., 1920			28	220	18	43	3	53	12	[b]32
E-69a-1-26	City of Riverside, Russell Well. NE. of Riverside; 270 feet NW. of Orange St., 60 feet NE. of Placentia Lane. Use: Municipal. Casing: 20 inches. Perforated 67-323.	17948A	840	*x353	(e)	8/13/31	34 4	Tr.	36	207	6	17	3	39	7	[b]33
E-74-1-27	Joe Trujillo. NE. of Riverside; 0.25 mile NE. of Chase Road, 0.13 mile SW. of La Cadena Ave., 75 feet N. of Riverside Water Co. Canal. Use: Domestic. Casing: 6 inches.	17958D	882	x80	1211	7/28/32	53 8	0 12	27	235	27	43	6	61	15	36
					1370	9/ 1/32	54 3	0 12	27	229	21	48	6	60	14	34
					1447	10/ 4/32	54 3	0 13		235	21					
					1496	10/31/32	53 9	0 16	27	232	21	43	7	60	14	36
					1555	12/ 3/32	53 1	0 14		223	21					
					1701	1/ 5/33	53 9	0 11		232	27					
					1747	2/ 7/33	53 4	0 20		226	23					
E-74d-1-27	Riverside Water Co., Highgrove pump. NE. of Riverside; 800 feet S. of Villa St., 1000 feet W. of Iowa Ave., 35 feet N. of Riverside Water Co. Canal. Use: Irrigation. Casing: 20 inches. Perforated 40-94; 104-134; 150-190; 228-240; 324-334; 370-380.	17958	890	*402	(d)	Mar., 1929				340	60					
					(d)	8/ 1/30					25					
E-74e-1-27	Riverside Water Co., Palmyrita Well. NE. of Riverside; 85 feet SE. of La Cadena Drive, 375 feet NE. of Oxford St., 38 feet NW. of Riverside Water Co. canal. Use: Irrigation. Gravel 38-42; 69-72; 80-83; 88-123; 128-130; 147-160; 178-180; 190-209; 253-265; 330-335.	17959	885	*393	(d)	8/ 1/30					51					
E-74g-1-27	University of California, Highgrove Well. N. of Highgrove; 390 feet S. of County Line Road, 190 feet E. of S. P. R. R. main line into Highgrove, 70 feet E. of east R. R. property line. Use: Irrigation. Perforated 135-320.	17968	957	*320	(d)	Jan., 1919			32	235	31	41	4	64	10	[b]44
					(d)	4/19/28			26	271	42	53		54	28	[b]40
					(d)	8/15/28			33	268	50	54		46	23	[b]50
					(e)	3/ 5/31	68 1	0 08	28	268	52	52		73	16	[b]45
					(e)	4/18/31	73 4	0 04	31	268	71	48	13	77	17	[b]55
E-76a-H-27	La Sierra Water Co., Well 1. S. of Colton; 600 feet S. of the intersection of S. 3d St. and La Cadena Drive, 250 feet E. of La Cadena Drive. Use: Irrigation. Casing: 16 inches. Perforated 50-191.	17965A	899	*194	(d)	Sept., 1918			19	225	20	36	5	65	13	[b]24
					(e)	8/ 5/29			15	225	25	55		73	13	[b]19
E-76b-H-27	La Sierra Water Co., Well 6. S. of Colton; 730 feet S. of the intersection of S. 3d St. and La Cadena Drive, 310 feet E. of La Cadena Drive. Use: Irrigation. Casing: 16 inches. Gravel 0-200.	17965B	900	*200	(d)	2/25/20			46	284	156	85	3	100	10	[b]116
E-76c-H-27	La Sierra Water Co., Well 2. S. of Colton; 900 feet S. of the intersection of S. 3d St. and La Cadena Drive, 300 feet E. of La Cadena Drive. Use: Irrigation. Casing: 16 inches. Gravel 0-150.	17965C	903	*x170	(d)	Sept., 1918			29	235	18	24	5	57	16	[b]39
E-76d-H-27	La Sierra Water Co., Well 5. S. of Colton; 770 feet S. of the intersection of S. 3d St. and La Cadena Drive, 670 feet E. of La Cadena Drive. Use: Irrigation. Casing: 16 inches. Perforated 50-158; 170-186.	17965D	900	*191	(d)	1/28/20			25	244	246	80	1	126	35	[b]70
					303	9/15/31	60 8	0 07	35	229	18	62	10	65	19	37
E-76e-H-27	La Sierra Water Co., Well 3. S. of Colton; 1570 feet S. from intersection of S. 3d St. and La Cadena Drive, 85 feet W. of La Cadena Drive. Use: Irrigation. Perforated 40-230.	17965E	904	*x240	(d)	Sept., 1918			32	267	26	50	5	65	13	[b]46
E-77-1-27	Temescal Water Co., Palm Ave. Plant. S. of Colton; 142 feet S. of Palm Ave., 482 feet E. of intersection of La Cadena Drive and Palm Ave. Use: Irrigation. Casing: 16 inches. Perforated 127-237; 247-351.	17966	956	*x372	(d)	Aug., 1928			16	229	32	38		52	24	[b]20
E-77b-1-27	Merrifield Water Co. S. of Colton; 135 feet W. of La Cadena Drive, 12 feet S. of Palm Ave. Use: Irrigation. Casing: 12 inches.	17966B	950	200	(d)	Sept., 1918			25	247	21	40	46	73	15	[b]38
E-77e-1-27	Riverside Highland Water Co., County Line Well. N. of Highgrove; 100 feet N. of Main St., 60 feet W. of A. T. & S. F. Ry. Use: Irrigation. Casing: 20 inches. Perforated 80-227; 282-346; 362-380.	17967	942	*420	(d)	6/24/29			22	280	40	53		72	20	[b]35

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-80-H-27	Riverside Water Co., Plant 5. S. of Colton; 3500 feet S. of East N St., 1750 feet W. of Mt. Vernon Ave., 135 feet E. of Riverside Water Co. wooden flume, 2500 feet S. of Plant 2. In Santa Ana River bottom. Use: Irrigation. Casing: 20 inches. Perforated 78-300.	17974	915	*327	(d)	8/ 1/30	----	----		----	28	----	----	----	----	----
E-81b-H-27	La Sierra Water Co., Well 7. S. of Colton; 820 feet S. of intersection of La Cadena Drive and S. 3d St., 1260 feet E. of La Cadena Drive. Use: Irrigation. Casing: 20 inches. Perforated 202-211; 217-257; 307-368.	17975B	905	*363	(d)	2/25/20	----	----	34	268	221	94	25	122	30	b101
E-82-1-27	Gage Canal Co., De Berry Plant. S. of Colton; 782 feet S. of Palm Ave., 679 feet W. of Michigan Ave. Use: Irrigation. Casing: 20 inches. Perforated 152-188; 197-209; 218-258.	17976	970	*266	(d)	Oct., 1926	----	----	32	231	37	53	----	54	17	b45
					(d)	8/15/28	----	----	29	260	35	41	----	55	19	b40
					(d)	Sept., 1930	----	----	31	290	64	60	----	75	20	b55
					1373	9/12/32	68.5	0.18	31	277	44	51	10	74	14	52
E-87b-H-27	Riverside Water Co., Plant 3. S. of Colton; 2400 feet S. of East N St., 1350 feet W. of Mt. Vernon Ave., 37 feet E. of Riverside Water Co. wooden flume, 1250 feet S. of Plant 2. In Santa Ana River bottom. Use: Irrigation. Casing: 20 inches. Perforated 66-88; 108-220.	17984B	919	*530	(d)	8/ 1/30	----	----		----	21	----	----	----	----	----
E-88b-H-27	Vista Grande Water Co. S. of Colton; 1490 feet S. of Washington St., 700 feet E. of Mt. Vernon Ave. Use: Irrigation. Casing: 10 inches.	17985B	930	172	(e)	9/25/26	----	----	31	281	28	48		62	16	b45
E-88c-H-27	Vista Grande Water Co. S. of Colton; 1450 feet S. of Washington St., 780 feet E. of Mt. Vernon Ave. Use: Irrigation. Casing: 20 inches. Gravel 42-54.	17985C	930	*175	(d)	June, 1929	----	----	----	260	95	----	----	----	----	----
E-91-H-27	Riverside Highland Water Co., Delta Well 3. SE. of Colton; 2100 feet E. of Mt. Vernon Ave., 1250 feet N. of Washington St. Use: Irrigation. Casing: 20 inches. Perforated 34-64; 70-110; 150-166.	17994	938	*182	(d)	7/ 2/28			52	360	57	68	----	74	14	b117
E-91a-H-27	Riverside Highland Water Co., Delta Well 4. SE. of Colton; 2300 feet N. of Washington St., 2700 feet E. of Mt. Vernon Ave. Use: Irrigation. Casing: 20 inches. Perforated 1-94; 104-134; 150-190; 228-240; 324-334; 370-380.	17994A	942	*494	(d)	7/ 2/28			47	345	47	88	----	68	15	b96
E-92-H-27	Riverside Highland Water Co., Steam plant. SE. of Colton; 500 feet E. and 500 feet S. of the N. ¼ corner of Sec. 33, T. 1 S., R. 4 W., S. B. B. & M. Use: Boiler feed water.	17995	955	----	(e)	6/ 5/28			36	280	34	49	----	61	11	b54
E-160-J-24	W. J. Hole Estate, NW. of Arlington; center of NW. ¼, Sec. 34, T. 2 S., R. 6 W., S. B. B. & M. Use: Not used since 1923, caved in.	16894	----	----	(d)	1916	----	----	36	246	234	128	43	112	28	b102
E-161-K-24	J. D. Lorenz. W. of Arlington; 1,000 feet W. of Pierce St., 490 feet S. of east and west center line of Sec. 15, T. 3 S., R. 6 W., S. B. B. & M. Use: Irrigation and domestic. Casing: 4' x 5' dug well.	16899	----	x77	(d)	Jan. 1931			----	103	135	----	----			
E-164d-K-24	J. C. Duerksen, Old Well. W. of Arlington; 150 feet NE. of Holden Ave., 0.25 mile NW. of Hole Ave. Use: Domestic and irrigation. Casing: 12 inches.	16917	730	*40	(c)	7/ 8/31	205	0.36	56	372	350	171	75	102	48	b269
					926	5/ 4/32	161	0.27	53	400	247	134	27	96	40	210
E-164e-K-24	J. C. Duerksen, New Well. W. of Arlington; 160 feet NE. of Holden Ave., 0.25 mile NW. of Hole Ave. Use: Drilling well, not yet used. Lab. No. 925 was sampled from depth of 70 feet, and Lab. No. 929 from depth of 35-45 feet, where break in casing allowed water from old well to flow in, according to owner. Lab. No. 930 and No. 931 were from depths of 50-58 feet and 63-70 feet, respectively.	16917A	730	----	925	4/22/32	251	0.43	----	424	446	----	----	----	----	----
					929	5/ 6/32	162	0.28	----	387	248	----	----	----	----	----
					930	5/ 6/32	163	0.26		390	248	----	----	----	----	----
					931	5/ 6/32	163	0.24		390	248	----	----	----	----	----
E-164f-K-24	Mr. J. R. Cardwell. NE. of Corona; 15 feet N. of Gramercy St., 0.18 mile W. of Holden Ave. Use: Irrigation. Casing: 7 inches. Bailey No. 3610A.	16907B	755	x61	(f)	11/24/31	182				258			----	----	
E-165-K-24	Southern California Junior College, Well 4. SW. of Arlington; 0.47 mile NW. of Magnolia Ave., 0.27 mile NE. of Pierce St. Use: Irrigation. Casing: 16 inches. Bailey No. 3615A.	16909	695	x150	(d)	Dec. 1930	----			320	115					
					(g)	11/19/31	----	----	32	174	60	169	----	68	24	b62
E-165a-K-24	Southern California Junior College, Well 1. SW. of Arlington; 0.47 mile NW. of Magnolia Ave., 0.23 mile NE. of Pierce St. Use: Irrigation. Gravel 15-27; 35-54; 81-150.	16909A	694	*150	(d)	Dec. 1930				256	138					

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-165d-K-24	Alvord Mutual Water Co., Plant 1. SW. of Arlington; 0.20 mile NW. of Magnolia Ave., 15 feet NE. of Golden Ave., 20 feet SW. of new well. Use: Irrigation. Bailey No. 3614A.	16919	699	.	(e) (f) (f)	8/ 5/29 10/ 5/31 11/30/31	 91 98		40 42	244 275	118 96 103	72 71	. . .	79 74	16 17	[b]81 [b]86
E-166-J-24	Twin Buttes Water Co., Plant 5. NW. of Arlington; 6,150 feet northerly at right angles to Arlington Ave., 5,600 feet northwesterly from intersection of Pedley Road and Jurupa Ave. On S. side of Santa Ana River, 60 feet S. of channel. Use: Irrigation.	16923	655	..	(e) (d)	8/ 5/28 Sept. 1928		.	17 29	274 275	88 96	49 106		106 90	16 25	[b]32 [b]62
E-167-J-24	Mrs. E. S. Freeman. NW. of Arlington; 600 feet W. of Tyler Ave., 300 feet N. of Arlington Ave. Use: Domestic and irrigation.	16925	800	68	946	5/13/32	121	0.16	29	238	220	51	18	95	45	81
E-168-K-24	Mrs. M. C. Baily. W. of Arlington; 300 feet NW. of Cook St., 550 feet SW. of Tyler Ave. Use: Domestic and irrigation. Casing: Dug well.	16927	755	48	947	5/13/32	142	0.16	39	146	295	75	35	89	45	122
E-169a-K-24	Mrs. Marie Bresson. SW. of Arlington; 1,280 feet NE. of Polk St., 675 feet SE. of Magnolia Ave., 20 feet W. of Riverside City Limits. Use: Irrigation. Casing: 12 inches.	16939A	732	x145	(d) (d)	Nov. 1924 July 1930		.	34	152 240	142 88	90		76	21	[b]65
E-169b-K-24	Daly Water Co., Inc., Well 1. SW. of Arlington; 1,380 feet SE. of Magnolia Ave., 1,260 feet SW. of Polk St., 25 feet southeasterly from Well 2. Use: Irrigation. Casing: 15 inches. Perforated 66-86; 90-112. Samples in August and September, 1918, are composite of both wells, which are same depth and perforated in same strata.	16939B	709	*112	(d) (d)	Aug. 1918 Oct. 1918			40 43	250 244	215 230	88 88	32 9	92 90	35 32	[b]117 [b]124
E-169h-K-24	Owner unknown. SW. of Arlington; 650 feet NE. of Polk St., 800 feet SE. of Magnolia Ave. Open casing in back of small stucco house. Use: Not used. Casing: 8 inches.	16939	730	108	(d)	1920			37	207	298	100	42	135	34	[b]129
E-169k-K-24	W. J. Hole. SW. of Arlington; 340 feet NW. of Magnolia Ave., 30 feet SW. of Polk St. Use: Irrigation. Casing: 20 inches. Perforated 55-97. Lab. Nos. 1721 and 1722 were sampled from sand stratum at depths of 13-24 feet and 29-55 feet, respectively. Lab. No. 1723 from gravel stratum at depth of 58-95 feet.	16939H	717	*108	1720 1721 1722 1723 1797	2/ 4/33 2/ 4/33 2/ 6/33 2/ 6/33 2/27/33	103 102 124 113 83.4	0.32 0.36 0.34 0.28	 53 49	387 375 473 415 268	82 84 114 106 77	 102 67	 7 22	 76 56	 30 17	 162 94
E-170-J-25	F. H. Koehsroier, G. K. Sanborn Well 1. N. of Arlington; 60 feet S. of Jurupa Ave., 0.2 mile E. of Van Buren St. Use: Domestic. Casing: 5′ x 5′ dug well.	16953	760	x56	951	5/11/32	123	0.18	38	311	176	57	27	83	41	104
E-170a-J-25	Arlington Mutual Water Co., Plant 4. N. of Arlington; 1,750 feet E. of Van Buren St., extended, 2,650 feet N. of Jurupa Ave., on S. bank of Santa Ana River. Use: Irrigation. Pump draws from battery of four wells drilled to rock along river bed.	16953A	695	45	953	5/13/32	89.5	0.12	32	311	92	60	6	94	19	69
E-172c-K-25	W. A. Caldwell. N. of Arlington; 0.20 mile E. of Van Buren St., 25 feet S. of Arlington Ave. Use: Domestic.	16945B	735	20	950	5/13/32	226	0.48	64	631	343	139	35	68	66	355
E-173a-K-25	Arlington Mutual Water Co., Plant 1-A. NE. of Arlington; 0.7 mile NE. of Van Buren St., 20 feet N. of California Ave. Use: Irrigation.	16956A	750	----	(e) 1582	8/ 5/29 12/15/32	 163	 0.23	30 31	279 293	328 306	79 106	 22	157 159	36 42	[b]108 117
E-173b-K-25	Arlington Mutual Water Co., Plant 1-B. NE. of Arlington; 0.8 mile NE. of Van Buren St., 100 feet N. of California Ave., 350 feet NE. of E-173a K-25. Use: Irrigation.	16956B	750		(e) 1583	8/ 5/29 12/15/32	 149	 0.21	34 28	290 274	315 274	81 73	 27	150 149	31 38	[b]121 95
E-173c-K-25	Arlington Mutual Water Co., Plant 1. NE. of Arlington; 1,330 to 1,803.6 feet SW. of Monroe St., 415 feet NW. of California Ave. 18 wells in open pit, 4.3′ x 473.6′ x 16′. Use: Not used, formerly irrigation.	16956	750	x .	(d)	1924			33	265	308	84		150	32	[b]115
E-174-K-25	W. A. Errington. NW. of Arlington; 135 feet SW. of Van Buren St., 36 feet NW. of California Ave. Use: Irrigation. Casing: 12 inches.	16947	763	x90	(d) 948	Sept. 1927 5/13/32	 112	 0.27	 51	350 311	159 135	 78	 27	 77	 19	 130
E-174c-K-25	N. N. Watts. N. of Arlington; 615 feet SW. of Jackson St., 46 feet NW. of Garfield St. Use: Irrigation. Casing: 16 inches. Perforated 47-74; 89-98; 107-116.	16957	745	*116	(d)	Sept. 1925					160					
E-174e-K-25	A. Harris. NE. of Arlington; 300 feet SW. of Jackson St., 150 feet NW. of Magnolia Ave. Use: Irrigation and stock. Casing: 7 inches.	16957B	733	x72	1699	30/33	90.5	0.25	57	268	98	62	22	50	18	121

TABLE 18. WELLS IN RIVERSIDE AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-174f-K-25	B. Morris. NW. of Arlington; 400 feet SW. of Van Buren St., 350 feet SE. of California Ave. Use: Domestic and stock.	16947C	760	30	949	5/13/32	151	0.28	44	324	208	118	57	116	35	157
E-175 K 24	Citizens Domestic Water Co., Plant 1. Arlington; 150 feet N. of Hole Ave., 260 feet NW. of Magnolia Ave. Use: Irrigation.	16948	756	.....	(e) 1581	8/ 5/28 12/15/32	 87.9	.... 0.26	42 50	244 268	125 98	63 63	 16	77 63	15 16	[b]85 106
E-175a K-24	Citizens Domestic Water Co., Plant 2. Arlington; 230 feet N. of Hole Ave., 300 feet NW. of Magnolia Ave., 80 feet N. of Plant 1. Use: Irrigation. Perforated 110-162, Bailey No. 3613G.	16948A	756	*165	(f) (f)	10/ 2/31 11/20/31	99 102	... 	42 46	268 278	107 107	85 72		76 71	18 16	89 96
E-175f K 24	Chas. H. Meairs. Arlington; 350 feet NW. of Magnolia Ave., 350 feet N. of Hole Ave. Use: Irrigation.	16948D	757	168	705	2/12/32	83.2	0.22		259	96		----			
E-176 K 24	Ellis M. Lund. S. of Arlington; 90 feet NW. of Indiana Ave., 90 feet NE. of Tyler Ave. Use: Domestic. Casing: 7 inches.	16949D	762	x125	759	2/26/32	94.3	0.17	35	253	123	76	23	72	35	81
E-176a K 24	John A. Hanmer. SW. of Arlington; 50 feet SW. of Tyler St., 1,250 feet SE. of Magnolia Ave. Use: Irrigation.	16949A	750		(d)	July 1930				268	60				---	
E-176b-K-24	F. J. Graser. SW. of Arlington; 160 feet SE. of Indiana Ave., 1,310 feet NE. of Polk St. Use: Irrigation. Gravel 83-98.	16949B	755	*98	(d)	8/ 1/30			28	305	128	155		120	30	[b]75
E-176c-K-24	F. B. Cocka. SW. of Arlington; 10 feet SE. of Indiana Ave., 1,180 feet NE. of Polk St. Use: Irrigation. Gravel 85-103.	16949C	755	*103	(e)	4/23/30		...	39	315	128	92		80	31	[b]95
E-176d-K-25	O. C. McNicholl, Beulah Springs Well. S. of Arlington; 200 feet SW. of Hughes Place, 300 feet SE. of Indiana Ave. Use: Commercial mineral water. Flows. Pumped when bottling water.	16949	775		(e) (e) 760	12/ 5/28 2/20/30 3/ 2/32	59.5 59.5	0.54 .... 0.50	100 90 89	[a]64 [a]64 [a]75	101 99 101	80 76 64	 0 0	0 9 3	0 1 5	[b]128 [b]116 115
E-176e-K-25	R. L. Crippen. S. of Arlington; 60 feet SW. of Harrison St., 200 feet SE. of Fox St. Use: Irrigation.	16950	800	x250	(d) (d)	Nov. 1918 Oct. 1926	.. ..	... .	17 22	195 284	280 160	129 131	28	150 94	50 55	[b]53 [b]60
E-176g-K 24	Frank Hambleton. SW. of Arlington; 200 feet SW. of Tyler St., 0.25 mile SE. of Magnolia Ave. Use: Domestic.	16949E	750	90	1698	1/30/33	64.6	0.19	50	226	55	50	9	40	17	78
E-176h K 24	Dave Sampson. SW. of Arlington; 150 feet SE. of Indiana Ave., 250 feet NE. of Tyler St. Use: Domestic.	16949F	762	100	1697	1/30/33	94.2	0.17	38	201	124	84	11	59	37	84
E-177a J 25	M. H. Payton. SW. of Riverside; 100 feet S. of Jurupa Ave., 300 feet W. of A. T. & S. F. Ry. Use: Domestic. Casing: 2 inches.	16973A	770	85	958	5/11/32	118	0.26	49	500	69	75	13	72	31	135
E-178a J 25	E. G. Harris. SW. of Riverside; 630 feet N. of Central Ave., 70 feet E. of Leach St. Use: Irrigation. Casing: 16 inches. Perforated 65-98; 109-113.	16974A	778	*117	957	5/13/32	129	0.22	38	336	194	70	18	106	38	117
E-178b-J-25	De Luxe Land & Water Co. NE. of Arlington; 50 feet W. of Phoenix Ave., 660 feet S. of Central Ave. Use: Irrigation and domestic.	16974	780	70	(d) 956	8/19/24 5/13/32	.. 144	. 0.25	49 ..	420 390	160 213	83 ----	 ----	98 ----	20 --	[b]146
E-178d-J-25	F. G. Wayman. NE. of Arlington; 150 feet E. of Phoenix Ave., 1,000 feet S. of Central Ave. Use: Domestic.	16974D	180	80	955	5/13/32	149	0.28	.....	387	220			.....	.....	--
E-178e K-25	Otto Martin. NE. of Arlington; 50 feet N. of Central Ave., 300 feet W. of Leach St., 1,000 feet W. of Phoenix Ave. Use: Domestic and garden.	16974E	790	65	954	5/13/32	138	0.20	35	369	227	41	18	109	49	117
E-179-K-25	Owner unknown. NE. of Arlington; 20 feet S. of Arlington Ave., 30 feet NE. of Adams St. Use: Domestic.	16965	790	x40	952	5/13/32	116	0.18	47	400	122	61	29	62	41	133
E-180 K 25	E. R. Murphy. NE. of Arlington; 160 feet NW. of California Ave., 555 feet NE. of Monroe St. Use: Not used. Casing: 12 inches. Lab. No. 710 was sampled from water surface and Lab. No. 761 from depth of 45 feet.	16966A	755	x80	(d) 710 761	1916 2/13/32 3/ 2/32	 48.4 49.4	 0.12 0.09	76 39	517 137 143	171 62 66	84 36	24 2	35 ---- 37	20 ---- 12	[b]243 41
E-180a K-25	J. C. Luther. NE. of Arlington; 1,215 feet NW. of California Ave., 655 feet NE. of Monroe St. Use: Not used. Casing: Dug well.	16966	755	.....	(d)	1916			39	269	500	126	31	173	57	[b]194
E-180b-K 25	Clyde Spratt. NE. of Arlington; 130 feet SE. of California Ave., 920 feet SW. of Monroe St. Use: Domestic and irrigation. Casing: 10 inches.	16966B	750	..	(d)	8/28/24			46	384	142	86		71	37	[b]127
E-180c K 25	W. V. Naugle. NE. of Arlington; 10 feet SW. of Monroe St., 10 feet NW. of California Ave. Use: Irrigation. Casing: 14 inches. Gravel 27-79.	16966C	750	*84	1087	6/23/32	145	0.20		308	248		----	-		-------

TABLE 18. WELLS IN RIVERSIDE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-180c-K-25	Neighbors of Wooderaft. NE. of Arlington; 0.15 mile SW. of Adams St., 0.12 mile SE. of Magnolia Ave. Use: Irrigation and domestic. Casing: 16 inches. Perforated 90-96; 111-129.	16976	790	*141	(e)	3/ 7/30			27	297	355	101	.....	174	45	b104
					336	9/19/31	184	0.22	33	290	375	92	43	171	42	139
E-180h-K-25	Neighbors of Wooderaft, Well 2. NE. of Arlington; 0.15 mile SE. of Magnolia Ave., 0.17 mile SW. of Adams St. Use: Irrigation. Casing: 16 inches. Perforated 84-119; 132-149; 166-179.	16976C	790	*180	1724	2/ 7/33	167	0.24	39	262	334	88	45	143	40	152
E-181-K-25	Sherman Indian Institute. Arlington; 1,000 feet SE. of Magnolia Ave., 400 feet NE. of Jackson St. Use: Domestic and irrigation. Sampled on 2/12/32 from supply tank to which this and another well 25 feet away are connected, one of which is 124 feet deep.	16967B	770	160	704	2/12/32	73.8	0.16	46	223	80	53	13	48	22	82
E-182a-K-25	G. A. Starrett, Jackson St. Well. SE. of Arlington; 55 feet SW. of Jackson St. 1,300 feet NW. of Lincoln Ave. Use: Not used. Gravel 88-110; hot water from crevices in granite 382-420. Lab. Nos. 707, 708 and 709 were sampled from depths of 73, 166 and 321 feet, respectively.	16968	835	*x421	(d)	Aug. 1928	.....	.....	68	a85	100	90	.....	6	20	b95
					708	2/12/32	59.4	0.51	.....	a63	101	.....	.....	.....	.....	.....
					709	2/12/32	59.5	0.44	91	a63	98	70	0	5	3	117
					707	2/13/32	59.7	0.49	.....	a63	101	.....	.....	.....	.....	.....
E-183-K-25	G. A. Starrett and Mr. Shearer. SE. of Arlington; 650 feet SE. of Victoria Ave., 75 feet SW. of Jackson St. Casing: 7 inches. Use: Irrigation. Perforated 76-100.	16979	900	*115	(d)	Nov. 1918	.....	.....	48	a216	115	63	18	47	20	b83
					1853	3/30/33	70.1	0.12	35	210	76	54	11	54	26	60
E-183a-K-25	J. L. Kellam. SE. of Arlington; 45 feet SE. of Cleveland Ave., 600 feet SW. of Jackson St. Use: Irrigation. Casing: 14 inches.	16979A	900	127	(e)	9/21/25	.....	.....	41	183	54	61	.....	45	14	b55
					(e)	2/15/26	.....	.....	53	238	37	33	.....	35	11	b68
					(e)	9/30/30	.....	.....	35	250	50	40	.....	51	19	b51
E-187b-K-25	Madison Park Pumping Association. NE. of Arlington; 290 feet NW. of Indiana Ave., 135 feet NE. of Hoover St. Use: Irrigation.	16996	861	187	(d)	8/24/17	.....	.....	36	165	369	49	89	134	38	b124
E-188-K-25	Owner unknown, Beulah Well. E. of Arlington; 150 feet SE. of A. T. & S. F. Ry., 60 feet SW. of Adams St. Use: Irrigation.	16987	845	.....	(d)	2/ 2/16	.....	.....	16	176	388	137	29	169	62	b58
					(d)	Aug. 1918	.....	.....	49	227	551	114	130	145	52	b254
					(d)	9/23/21	.....	.....	50	235	523	206	141	143	60	b276
					(d)	4/27/22	.....	.....	54	253	532	190	110	139	55	b310
					(d)	7/26/22	.....	.....	.....	.....	514	.....	125	.....	.....	.....
					(d)	8/30/22	.....	.....	52	235	480	108	110	142	10	b201
					(e)	7/15/22	.....	.....	.....	231	582	109	.....	.....	.....	.....
					(e)	7/20/22	.....	.....	49	245	532	153	77	143	58	b263
E-188a-K-25	Orange Acres Mutual Water Co. (formerly The Riverside Trust Co.). E. of Arlington; 750 feet NE. of Adams St., 100 feet NW. of A. T. & S. F. Ry. Use: Irrigation. Gravel 102-106; 146-160; 200-214.	16987A	845	*325	(d)	4/26/16		.....	33	212	517	99	113	188	64	b165
					(d)	Nov. 1918		.....	34	220	340	96	39	139	53	b120
E-189-K-25	E. D. Lindley. E. of Arlington; 55 feet SW. of Gratton St., 90 feet NW. of Lincoln Ave. Use: Irrigation.	16988	845	.....	(d)	5/18/16	.....	.....	32	270	422	110	113	184	55	b150
					(d)	Nov. 1918			45	239	555	108	41	157	56	b235
					(d)	Jan. 1919			46	183	546	108	66	137	56	b229
					(e)	1/ 6/31			38	207	373	109	.....	104	58	b141
E-192a-J-26	E. F. Graser. Riverside; 200 feet S. of Tequesquite Ave., 30 feet NW. of Alvarado St., extended, 0.4 mile W. of Pine St. Use: Dairy and domestic. Casing: 7 inches.	17002	769	x49	941	5/11/32	84.3	0.08	31	281	96	41	8	91	16	62
E-192d-J-26	Riverside Laundry. Riverside; 100 feet NW. of Brockton Ave., 420 feet SW. of 14th St. Use: Industrial. Casing: 14 inches. U. S. D. A. and D. W. R. analyses on 5/11/32 are from same sample.	17012C	795	246	940	5/11/32	35.2	0.03	25	177	9	16	2	46	6	22
					(e)	5/11/32	35.0	0.04	24	186	11	17	3	48	6	b21
E-192e-J-26	Royal Laundry. Riverside; 300 feet SW. of 14th St., 150 feet SE. of Brockton Ave. Use: Industrial. Casing: 10 inches.	17012D	795	165	1042	6/ 7/32	63.6	0.08	28	253	55	35	6	73	13	42
E-193a-K-26	Orange Acres Mutual Water Co. (formerly The Riverside Trust Co.). SW. of Riverside; 70 feet SE. of A. T. & S. F. Ry., 70 feet NE. of Mary St. Use: Irrigation. Casing: 12 inches. Perforated 124-138; 150-168.	17005	875	*249	(d)	4/26/16	.....	.....	41	161	567	52	113	161	69	b222
					(d)	Jan. 1919	.....	.....	39	201	503	75	20	155	53	b179
E-193b-K-26	Earl Fruit Co. SW. of Riverside; 80 feet SE. of A. T. & S. F. Ry., 660 feet NE. of Jane St. Near Pachappa Station. Use: Irrigation. Casing: 10 inches. Gravel 104-170; 180-188.	17015A	876	*x245	(d)	4/26/16	.....	.....	41	133	634	47	78	178	59	b222
					(d)	Jan. 1919	.....	.....	43	213	627	76	28	172	58	b228
					(d)	July 1929	.....	.....	.....	220	475	.....	.....	.....	.....	.....
					301	9/15/31	219	0.23	21	223	460	76	43	119	49	215
E-194-K-26	McCormack Pumping Association. SW. of Riverside; 15 feet SE. of Indiana Ave., 15 feet SW. of Washington St. Use: Irrigation. Casing: 12 inches.	17006	860	x165	(d)	5/18/16	.....	.....	42	169	387	61	102	131	42	b164

TABLE 18. WELLS IN RIVERSIDE AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10 at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-195-K-26	Owner unknown. SE. of Arlington; 100 feet N. of Hermosa Drive; 280 feet E. of Jefferson St. Use: Abandoned.	17009	1,085		(d)	1/26/16			26	88	383	58	68	140	66	[b]99
E-195a-K-26	J. J. Backus. S. of Riverside; 750 feet W. of Washington St., 200 feet S. of Kitchener Ave. in bottom of small arroyo between Kitchener Ave. and Huntington Ave. Use: Domestic and irrigation. Casing: 8 inches. Perforated 40-60.	17018	1,040	*75	(e) 943	1/23/31 5/12/32	94.8 94.7	0.12 0.19	28 31	287 293	117 114	52 51	 18	74 76	35 34	[b]59 69
E-195b-K-26	Arlington Heights Protective Association. S. of Riverside; in bottom of small arroyo between Kitchener Ave. and Huntington Ave., 1,000 feet Southeasterly from Gage Canal, 40 feet W. of E-195a-K-26. Use: Abandoned, formerly irrigation.	17018A	1,040	50	(e)	8/26/29			40	329	1,597	297	.	396	169	[b]522
E-195c-L-26	E. B. Blinn. SE. of Arlington; 200 feet S. of Hermosa Drive, 500 feet W. of St. Lawrence St., extended. Use: Not used. Casing: Dug well.	17009A	1,025	80	1715	2/2/33	120	0.22	27	363	155	111	1	97	43	78
E-196a-J-26	Glenwood Mission Inn. Riverside; under Glenwood Mission Inn Hotel at NE. corner of 7th and Main Sts. Use: Domestic.	17021	845		(d)	Feb. 1931	82		17	317	73	68		93	31	34
E-196b-J-26	Fox Theatre. Riverside; 25 feet NE. of 7th St., 100 feet NW. of Market St. Use: Domestic.	17021A	830		1216	7/28/32	79.8	0.14	31	[a]326	62	49	7	94	17	62
E-196d-J-26	Riverside Water Co., First Street pump. Riverside; 450 feet NE. of First St., 230 feet NW. of La Cadena Drive, 40 feet NW. of Riverside Water Co. canal. Use: Irrigation. Casing: 24 inches. Perforated 62-74; 95-228.	17031	860	*270	(e) (d) (d) (d)	8/24/29 July 1930 8/1/30 Feb. 1931			11	270 275	110 39 36 47	13 62		101 79	18 21	[b]18 [b]35
E-196e-J-26	City of Riverside, Mulberry St. Well. Riverside; 150 feet SW. of 8th St., 150 feet SE. of Mulberry St. Use: Municipal. Casing: 16 inches. Gravel 95-124; 143-161; 167-174; 198-214; 245-262; 275-285; 295-300.	17031A	865	*x300	(d)	9/10/21			23	268	125	43	4	102	21	[b]46
E-197-J-26	Riverside Water Co., 11th St. Well. Riverside; 250 feet NE. of 12th St., 150 feet NW. of Vine St. Use: Irrigation. Casing: 20 inches. Perforated 82-162; 182-190; 204-234; 260-270.	17022	865	*440	(d) (d) (d) (d) (d) (d) (d)	9/9/26 Aug. 1927 Sept. 1927 9/12/28 July 1929 Dec. 1929 8/1/30			 30 33 21 32 	 272 265 244 275 260 	136 117 119 124 117 118 97	 88 86 45 50 		 98 100 103 91 	 22 19 22 23 	 [b]67 73 [b]44 [b]71
E-197a-J-26	Gage Canal Co., Olivewood Plant. Riverside; 35 feet SW. of Terracina Drive, 100 feet NW. of Olivewood Ave. Use: Irrigation. Casing: 20 inches. Perforated 70-352.	17022A	815	*398	(d) (e) (e) (e) (e) (d) (d) (d) (d) (d) (d) (d) 58 1372	5/20/25 5/27/25 7/3/25 7/3/25 7/3/25 8/1/26 9/4/26 10/1/26 7/1/27 7/15/27 8/15/28 9/1/30 6/13/31 9/12/32	 99.4 98.3	 0.14	35 35 23 24 22 25 26 30 27 22 27 29 32 32	201 198 201 204 201 178 207 216 207 204 232 226 220 223	182 186 173 162 169 172 170 149 195 187 143 168 172 160	60 79 30 30 29 63 65 45 37 38 42 40 27 28	 22 13	94 99 102 96 101 104 106 84 86 88 82 80 91 94	22 19 20 19 21 20 21 23 33 35 32 30 25 21	[b]81 [b]82 [b]47 [b]49 [b]43 [b]52 [b]57 [b]60 [b]60 [b]51 [b]57 [b]62 71 68
E-197b-J-26	Riverside Water Co., Fill Pump Well. Riverside; 30 feet SE. of Riverside Water Co. canal, 250 feet SW. of 10th St. Use: Irrigation. Casing: 24 inches. Gravel 74-83; 92-118; 130-142; 165-210; 222-252.	17032	880	*358	(d) (d)	2/1/30 8/1/30			45	244	142 135	33		60	22	[b]90
E-197c-J-26	Victoria Club. Riverside; on W. line of High St., extended, 80 feet S. of Cridge St., extended, in Tequesquite Arroyo. Use: Irrigation. Casing: 16 inches.	17033	905	120	(d) 1041	Jan. 1930 6/7/32	 124	 0.12	42 35	152 143	273 271	103 45	 25	104 95	23 36	[b]120 94
E-200-K-26	George Marshall, Bradley St. Well. E. of Arlington; 40 feet W. of Washington-Elsinore Road, 130 feet S. of Bradley St. Use: Irrigation.	17029	1,160	65	(d)	2/7/16			37	230	273	94	17	109	49	[b]130
E-201-I-26	J. R. Kelly. Riverside; 680 feet W. of Chicago Ave., 55 feet N. of Indianapolis Ave. Use: Irrigation.	17040	895	113	(d) (d)	July 1927 June 1932			31 39	260 232	130 200	78 52		80 100	32 25	[b]69 [b]103
E-201b-I-26	George J. Fraley. Riverside; 75 feet N. of Indianapolis Ave., 100 feet W. of Chicago Ave. Use: Irrigation. Casing: 8 inches. Perforated 93-122. Shown on map as E-201c.	17050	900	*129	(d) (d)	April 1928 1/20/30			14	295 275	225 152	64		142	45	[b]40

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-202a-J-26	Clearwater Co. Riverside; 150 feet N. of Pennsylvania Ave., 550 feet W. of Kansas Ave. Use: Irrigation.	17042	918	236	(d)	Jan. 1919	-	-	35	183	163	30	3	82	19	[b]71
					(d)	June 1926	- -		34	218	209	49		100	21	[b]80
					(d)	May 1927	- - -		30	201	200	52		102	24	[b]70
					(d)	Oct. 1927				213	200					
					304	9/15/31	115	0.08	36	223	176	47	21	90	27	85
					935	5/13/32	108	0.08	37	223	176	44	27	89	27	88
					1212	7/28/32	102	0.12	37	223	167	45	23	89	24	86
					1300	9/ 1/32	102	0.14	37	223	163	45	23	88	25	85
					1448	10/ 3/32	104	0.17		223	165					
					1497	11/ 1/32	103	0.14	37	220	160	41	23	86	23	84
					1556	12/ 1/32	103	0.10		223	163					
					1629	1/ 3/33	99.7	0.12	37	223	163	59	27	88	25	86
E-202e-J-27	R. F. Fox. S. E. of Riverside; 600 feet S. of South St., 50 feet E. of Chicago Ave., extended. Use: Domestic and irrigation.	17053	920	140	939	5/13/32	126	0.14	24	210	240	60	27	111	48	69
E-202d-J-27	University of California Citrus Experiment Station, Gage Tract Well. Riverside; 133 feet E. of Chicago Ave., 0.25 mile N. of Pennsylvania Ave. Use: Not used, capped since 1919. Samples on 11/11/19 were composited for the operating periods of 1-10, 10-20, 20-30, 30-40, 40-50, 50-60, and after 60 hours, respectively.	17052	960		(d)	6/10/19			47	146	96	22	15	39	13	[b]62
					(d)	11/11/19				137	78					
					(d)	11/11/19				146	78					
					(d)	11/11/19				137	71					
					(d)	11/11/19				146	75					
					(d)	11/11/19				138	75					
					(d)	11/11/19				138	75					
					(d)	11/11/19				138	75					
E-203-J-26	R. F. Fox, Old Church Ranch Well. SE. of Riverside; 135 feet W. of Chicago Ave., extended, 1,370 feet S. of South St., in Tequesquite Arroyo. Use: Domestic and irrigation.	17054	930	160	(d)	June 1930				244	232					
E-206-J-27	Glenwood Investment Co. E. of Riverside; 325 feet E. of Canyon Crest Road, 225 feet S. of Linden St. Use: Irrigation. Casing: 12 inches.	17061A	1,044	x329	(d)	2/ 2/16			52	112	74	68	13	35	14	[b]73
E-206a-J-27	Lemona Heights Water Co. E. of Riverside; 25 feet N. of Linden Ave., 90 feet E. of Gage Canal, 0.32 mile E. of Iowa Ave. Use: Irrigation. Casing: 13 inches.	17061B	1,025	400	(d)	2/ 2/16			63	106	55			26	17	[b]102
					932	5/11/32	45.9	0.10	56	125	60	19	8	23	10	56
E-207-J-27	University of California Citrus Experiment Station. E. of Riverside; 1,270 feet N. of Pennsylvania Ave., 85 feet E. of Gage Canal. Use: Domestic.	17062	1,020		(d)	5/24/16				172	54					
					(d)	11/23/18			44	137	69	61	18	36	14	[b]54
					(d)	4/19/28			32	137	154	38		54	28	[b]55
					(e)	3/ 4/31	63.6	0.08	51	131	117	19		49	5	[b]69
					(e)	4/21/31	72.2	0.04	40	140	119	21	30	50	20	[b]64
E-207a-J-27	A. C. Woodhill. E. of Riverside; 65 feet E. of Iowa Ave., 520 feet S. of Linden Ave. Use: Irrigation. Casing: 16 inches.	17062A	996	x350	(e)	2/18/25			49	135	82	50	11	38	13	[b]65
					(e)	5/18/27			18	116	78	30		59	11	[b]20
					(e)	5/ 7/28			39	122	89	37		43	13	[b]48
					(e)	7/30/28			42	116	71	19		30	12	[b]41
E-207b-J-27	F. A. Tetley, Jr. E. of Riverside; 0.14 mile S. of Pennsylvania Ave., 50 feet E. of Canyon Crest Road. Use: Irrigation and domestic. Casing: 8 inches. U. S. D. A. and D. W. R. analyses on 5/13/32 are from same sample.	17063	1,055	*159	(d)	Nov. 1929			32	210	110	40		62	25	[b]55
					934	5/13/32	70.6	0.16	35	217	57	67	18	49	28	59
					(e)	5/13/32	70.6	0.15	34	241	53	72	31	51	27	[b]61
E-218-K-28	Box Springs Mutual Water Co. NW. of March Field; 1,000 feet E. of State Highway to Perris, 20 feet S. of Dracea Ave. Use: Domestic and irrigation. Casing: 10 inches.	17117	1,530	189	937	5/12/32	59.8	0.07	43	58	115	17	23	34	16	53
E-298-L-24	C. W. Main. SW. of Arlington; 63 feet N. of Magnolia Ave., 62 feet W. of Buchanan St. Use: Irrigation. Casing: 16 inches. Perforated 170-181. Bailey No. 3622D.	16000B	686	*x181	(d)	July 1919			44	275	243	91	31	120	20	[b]140
					230	8/13/31	123.3		42	314	176	93	19	100	31	124
					(f)	9/20/31	141		33	305	181	91		104	33	[b]93
					(f)	10/ 2/31	136		39	299	181	105		106	26	[b]108
					(f)	11/24/31	133		37	299	174	98		97	31	[b]101
E-298a-L-24	Twin Buttes Water Co., Plant 1. SW. of Arlington; 0.25 mile SW. of Pierce St., 830 feet NW. of Magnolia Ave. Second well from north end of row of eighteen wells. Use: Irrigation.	16000	689		(d)	Mar. 1928			49	262	319	103		108	40	[b]190
					(e)	8/ 5/28			44	268	291	106		101	41	[b]148
E-298b-L-24	W. J. Hole. SW. of Arlington; 0.26 mile SW. of Pierce St., 50 feet NW. of Magnolia Ave. Use: Irrigation. Casing: 20 inches. Perforated 54-66; 70-102; 114-126. Bailey No. 3622C.	16000A	688	*126	(f)	11/30/31	100		46	339	71	79		67	19	[b]98
E-299a-L-24	E. J. Generaux, Well 1. SW. of Arlington; 0.1 mile SE. of Magnolia Ave., 50 feet SW. of Pierce St. Use: Not used. Casing: 16 inches. Perforated 54-78.	16010A	700	*102	(d)	Nov. 1930			13	270	41	61		78	26	[b]21

TABLE 18. WELLS IN RIVERSIDE AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10 at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-299b-L-24	E. J. Generaux, Well 2. SW. of Arlington; 0.3 mile SE. of Magnolia Ave., 50 feet SW. of Pierce St. Use: Not used. Casing: 16 inches. Perforated 59-62; 65-77; 86-98.	16010	702	*101	(d)	Nov. 1930	.....		14	280	39	60	.	78	25	[b]22
E-304a-L-24	F. W. Knard. SW. of Arlington; 190 feet SE. of Arizona Ave., 77 feet SW. of Taylor St. Use: Domestic. Casing: 6 inches. Bailey No. 3624B.	16030	780	x60	(d) (f)	Oct. 1918 11/24/31	.. 130	.	44 46	[a]268 308	123 92	106 134	13	62 66	27 28	[b]96 [b]111
E-304c-L-24	Mrs. P. W. Swanson. SW. of Arlington; 100 feet SW. of Filmore St., 20 feet SE. of Arizona Ave., extended. Use: Domestic. Bailey No. 3626A.	16021	790	....	(f)	11/24/31	167		41	275	176	171	... ..	96	35	[b]122
E-309-L-25	Thomas G. Thursby. S. of Arlington; 120 feet N. of Victoria Ave., 80 feet NE. of John St., extended. Use: Irrigation and domestic. Casing: 15 inches.	16050	840	60	(d)	Oct. 1926	.	.	19	250	142	107	.. ...	94	47	[b]45
E-319-L-25	E. J. Generaux. SE. of Arlington; 285 feet W. of Mockingbird Canyon Road, 785 feet SW. of Irving St., 675 feet N. of Riverside City Limits, 21 feet NW. of E-319b-L-25. Use: Irrigation. Casing: 14 inches.	16090	1,000	... - ...	(d)	Feb. 1931	.....	.....	43	280	200	120	.... .	88	35	[b]125
E-319a-L-25	J. F. Clark, Well 1. SE. of Arlington; 290 feet W. of Mockingbird Canyon Road, 800 feet SW. of Irving St., 640 feet N. of Riverside City Limits, 36 feet SE. of E-319b-L-25. Use: Not used.	16090A	1,000	130	(d)	Mar. 1927	.....	.....	33	262	213	140	.....	106	44	[b]100
E-319b-L-25	Judson F. Clark, Well 2. SE. of Arliogton; 270 feet W. of Mockingbird Canyon Road, 800 feet SW. of Irving St., 660 feet N. of Riverside City Limits. Use: Irrigation.	16090B	1,000	.....	(d)	Mar. 1928	.....	.. ....	55	290	195	254	.....	82	36	[b]195
E-319c-L-25	M. B. Collins. SE. of Arlington; 42 feet S. of County Road, 140 feet W. of Mockingbird Canyon Road, 490 feet S. of Riverside City Limits. Use: Domestic and irrigation.	16091	1,000	.....	(d)	Mar. 1928	.....	.....	.....	268	184	.....	.. . .	. .....	. .	--
E-325-L-26	A. Larry Butler. SE. of Arlington; 1.65 mile up Mockingbird Canyon Road from Irving St., 150 feet NE. of road, 25 feet W. and 295 feet N. of S. 1/4 corner, Sec. 27, T. 3 S., R. 5W., S. B. B. & M. Use: Irrigation and domestic.	16102	1,160	.....	(d)	Aug. 1928	.....	.....	.....	275	177	.....	.. .	. .		
E-325a-L-26	E. J. Akins. SE. of Arlington; 1.9 mile up Mockingbird Canyon Road from Irving St., 150 feet NE. of road, 400 feet S. and 1,010 feet E. of N. 1/4 corner, Sec. 34, T. 3S., R. 5 W., S. B. B. & M. Use: Irrigation and domestic.	16102A	1,200	... .	(d)	Nov. 1927	..	.	.	256	150	. .	.. . ..	..	... .	.....
E-329-L-26	W. Boekleman. SE. of Arlington; 100 feet W. of main road to Woodcrest from Bradley St. through Casa Blanca, 100 feet S. of Gormly Road. Use: Domestic and irrigation. U. S. D. A. and D. W. R. analyses on 5/12/32 are from same sample.	16131	1,585	43	945 (c)	5/12/32 5/12/32	63.5 63.1	0.14 0.13	38 38	149 165	80 78	27 30	20 32	44 44	19 19	54 [b]52
E-339-L-27	Captain Gust Johnson. Woodcrest; 100 feet W. of Wood Road, 0.75 mile N. of Iris Ave. Use: Domestic and irrigation.	16160	1,585	42	942	5/13/32	131	0.15	29	137	290	31	35	92	48	82
E-339a-L-27	J. I. Van Zandt. Woodcrest; 200 feet N. of Iris Ave., 300 feet W. of Wood Road. Use: Domestic and irrigation.	16161	1,630	74	944	5/12/32	44.9	0.14	40	110	55	14	18	27	14	38
E-349-L-28	F. O'Neill. S. of March Field; 100 feet E. of Perris Highway, 70 feet N. of Iris Ave. Use: Domestic. Casing: 6 inches.	16221	1,535	110	936	5/12/32	85.4	0.10	26	131	158	10	31	71	29	47

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.
[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[d] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[e] Analysis by Edward S. Babcock and Sons, Riverside, California.
[f] Analysis by Edward S. Babcock and Sons, Riverside, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillibridge, et al), in the Superior Court of the State of California, in and for the County of Riverside.
[g] Analysis by Association Laboratory, Anaheim, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillibridge, et al), in the Superior Court of the State of California, in and for the County of Riverside.

TABLE 19. WELLS IN TEMESCAL AREA

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E 147g L 21	Mrs. Ethel Nichols. NE. of Prado; 125 feet NE. of Yorba St., 0.26 mile NW. of intersection of Yorba St. and A. T. & S. F. Ry. Use: Domestic. Bailey No. 3721C.	16789G	498	x23	(e)	10/ 2/31	131				167					
					(e)	11/25/31	135		31	284	177	143		121	32	[b]90
E 147h L 21	Santa Ana Water Co. NE. of Prado; 0.43 mile NW. of intersection of A. T. & S. F. Ry. and Yorba St., 150 feet E. of Yorba St. Use: Domestic. Casing: 12 inches. Bailey No. 3716F.	16789	496	x	(e)	9/23/31	171		31	367	259	123		151	41	[b]113
					(e)	10/ 2/31	167				259					
					(e)	11/25/31	174		35	381	263	124		142	41	[b]132
E-148 K-22	Anaheim Union Water Co. NW. of Corona; 0.45 mile NW. of Croydon St. on line of Rincon St., extended, 0.12 mile S. of ranch road. On top of hill. Use: Domestic. Casing: 6 inches. Bailey No. 3715B.	16799	615	x160	(e)	11/28/31	73		11	159	110	26		44	40	[b]16
E 149j K 22	Mrs. W. C. Warner. NW. of Corona; 25 feet SW. of Auburndale Road, 0.46 mile NW. of Croydon St. Use: Domestic. Bailey No. 3710E.	16807A	530		(e)	11/24/31	64		35	220	60	44		59	13	[b]50
E-150 K 22	John Balden. NW. of Corona; 0.55 mile NW. of Croydon St., 1,000 feet SW. of Auborndale Road (River St.). On hill. Use: Domestic. Casing: 15 inches. Bailey No. 3710F.	16808	601	x134	(e)	9/23/31	82		57	159	131	44		41	13	[b]94
					(e)	10/ 5/31	80		63	159	131	54		40	9	[b]107
					(e)	11/24/31	82		65	162	128	61		36	10	[b]112
E-150b K 22	Rex Clark. NW. of Corona; 1,400 feet SW. of Auburndale Road, 50 feet NW. of Croydon St. Use: Not used. Casing: 10 inches. Bailey No. 3714A.	16818A	567	x211	(d)	2/ 6/32					100	28		28	12	
E 151b L 22	Mrs. Sadie Baldwin. NW. of Corona; 0.40 mile SE. of Croydon St., 0.15 mile NE. of Rincon St. Use: Irrigation. Bailey No. 3714D.	16809B	536	x119	(e)	12/21/31	90		34	232	113	48		59	28	[b]61
E-151c L 22	W. B. Covington. NW. of Corona; 100 feet SW. of Rincon St., extended, 200 feet NW. of Croydon St., extended. Use: Irrigation. Gravel 30-80. Bailey No. 3715E.	16809C	525	*x80	(e)	9/20/31	161		39	339	256	74		130	27	[b]127
					(e)	10/ 2/31	145				227					
					(e)	11/24/31	140		39	302	220	68		108	27	[b]113
E-151d K 22	E. R. Wood. NW. of Corona; 0.36 mile NE. of Rincon St., 50 feet SE. of Croydon St. Use: Domestic. Bailey No. 3715G.	16809D	558	x	(e)	10/ 5/31	69		44	143	103	28		36	18	[b]58
					(e)	11/24/31	70		46	149	107	20		35	17	[b]62
E 151e L-22	Mr. E. Bowen. NW. of Corona; 0.16 mile SE. of intersection of Croydon and Rincon Sts., 30 feet SW. of Rincon St. Use: Irrigation. Bailey No. 3715H.	16809E	527	*x86	(e)	9/20/31	188				309					
E-151h L-22	Mrs. E. Bowen. NW. of Corona; 0.19 mile SE. of intersection of Croydon and Rincon Sts., 100 feet SW. of Rincon St. Use: Domestic. Casing: 7 inches. Bailey No. 3715I.	16809F	527		(e)	10/ 2/31	191				319					
					(e)	11/24/31	211		36	503	348	89		186	42	[b]163
E 151i K-22	C. E. Burner. NW. of Corona; 0.15 mile SE. of intersection of Croydon and Rincon Sts., 0.10 mile NE. of Rincon St. Use: Irrigation and domestic. Bailey No. 3715K.	16809G	530		(e)	9/20/31	136		37	281	213	64		105	27	[b]102
					(e)	11/24/31	123		39	274	187	56		90	27	[b]97
E 151j K 22	W. B. Covington. NW. of Corona; 200 feet SW. of Rincon St., extended, 50 feet NW. of Croydon St., extended. Use: Domestic. Bailey No. 3715D.	16809H	526	x429	(e)	9/20/30	186				302					
					(e)	10/ 2/31	183				302					
					(e)	11/24/31	140				245					
					1215	7/28/32	155	0.46	40	357	277	77	8	133	34	144
					1303	9/ 1/32	152	0.45	39	354	266	68	9	130	40	143
					1451	10/ 4/32	150	0.53		329	263					
					1500	10/31/32	140	0.49	41	327	241	67	8	116	33	133
					1559	12/ 3/32	130	0.47		305	221					
					1632	1/ 3/33	128	0.47	41	296	213	65	9	104	27	119
					1750	2/ 6/33	129	0.46		302	226					
E 153a K 22	H. G. Beecham. N. of Corona; 75 feet S. of 2d St., 0.14 mile W. of Pacific Ave. Use: Domestic and irrigation. Casing: 12 inches, concrete. Bailey No. 3713A.	16828	587	x60	(e)	9/30/31	129				231					
					(e)	11/20/31	122		39	205	217	60		79	31	[b]96
E 153b K 22	W. M. Wright. N. of Corona; 100 feet S. of 2d St., 0.27 mile W. of Hamner Ave., 1 foot from E-153k K 22. Use: Irrigation. Casing: 8 inches. Gravel 18-27. Bailey No. 3713C.	16838	600	*x64	(e)	9/30/31	119		37	207	209	64		79	33	[b]90
					1822	3/21/33	112	0.25		210	208					
E-153i-L-22	T. W. Mitchell. N. of Corona; 25 feet S. of 1st St., 0.15 mile E. of Pacific Ave. Use: Domestic and irrigation. Bailey No. 3724B.	16839F	584	x58	(e)	9/30/31	115				259					
					(e)	11/20/31	108		46	119	231	45		49	32	[b]98
E-153k K-22	W. M. Wright. N. of Corona; 100 feet S. of 2d St., 0.27 mile W. of Hamner Ave., 1 foot from E-153b-K-22. Use: Domestic. Casing: 2 inches, driven. Perforated well point at 100 feet.	16838B	600	100	(e)	11/20/31	74		55	165	103	59		36	15	[b]87
					1823	3/21/33	65.5	0.53		156	103					
E 154 K 22	E. T. Daily. N. of Corona; 0.11 mile W. of Hamner Ave., 0.09 miles S. of 2d St. Use: Domestic. Casing: 7 inches. Bailey No. 3713D.	16839A	604	x70	(e)	11/19/31	210				480					

TABLE 19. WELLS IN TEMESCAL AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-154d-K-22	B. H. Ott. N. of Corona; 0.15 mile S. of 2d St., 0.16 mile W. of Hamner Ave. Use: Domestic. Casing: 10 inches. Bailey No. 3713F.	16839H	604	80	(c)	11/19/31	172				384					
E-156c-K-23	A. Henwood. E. of Norco; 0.28 mile S. of 6th St., 300 feet E. of Hillside Ave. Use: Irrigation and domestic. Bailey No. 365A.	16866	680		(c)	11/19/31	96		50	168	139	38		45	18	b85
E-159b-K-23	W. C. Goodhue. N. of Corona; 250 feet S. of 1st St., 100 feet W. of Temescal St. Use: Domestic and irrigation. Casing: 5 inches, in 35-foot pit. Bailey No. 3618C.	16859	652	x61	(c)	11/19/31	85		54	174	121	40		47	11	b88
E-265-L-21	Unita Campio. Prado; 1,900 feet W. of Center St., 100 feet S. of State Highway. Use: Domestic. Casing: 3′ x 4′ dug well. Bailey No. 3720E.	15860A	493	x19	(c)	9/22/31	123				42					
E-267-L-21	Excelsior Ranch Co., Ltd. Prado; 750 feet E. of Center St., 40 feet N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 16 inches. Bailey No. 3721E.	15870A	489	x57	(c)	9/22/31	96				57					
E-267e-L-21	Excelsior Ranch Co., Ltd. N. of Prado; 0.25 mile N. of intersection of Center St. and A. T. & S. F. Ry., 100 feet E. of Center St. Use: Domestic, cooling and washing bottles. Casing: 12 inches. Bailey No. 3720A.	15870E	484	x	(c)	9/22/31	106				117					
					(c)	10/ 2/31	107				117					
					(c)	11/25/31	107		32	235	118	122		93	24	b71
E-267f-L-21	Excelsior Ranch Co., Ltd. Prado; 300 feet N. of State Highway, 100 feet W. of Center St. Use: Domestic. Casing: 7 inches. Bailey Nn. 3720G.	15870F	492	x	(c)	9/23/31	95				50					
					(c)	10/ 2/31	94				50					
					(c)	11/25/31	95				46					
E-267g-L-21	Ernest Goubert. Prado; 20 feet E. of Center St., 200 feet S. of State Highway. Use: Irrigation and domestic. Casing: 10 inches. Bailey No. 3720J.	15870G	501	x	(c)	9/22/31	95		10	265	43	196		105	41	b22
					(c)	10/ 2/31	97		16	265	44	204		106	36	b35
					(c)	11/25/31	98		17	256	44	208		97	40	b37
E-267k-L-21	Excelsior Ranch Co., Ltd. Prado; 50 feet W. of Center St., 50 feet N. of road that is 700 feet S. of State Highway. Use: Irrigation. Bailey No. 3720K.	15870K	507	x	(c)	9/22/31	102				36					
E-267q-L-21	C. O. Dale. Prado; 200 feet N. of State Highway, 300 feet W. of Center St. Use: Domestic and irrigation. Casing: 12 inches. Bailey No. 3720-O.	15870Q	494	135	(c)	9/23/31	95				50					
					(c)	11/25/31	95				46					
E-267r-L-21	Atchison, Topeka & Santa Fe Ry. Prado; 20 feet S. of A. T. & S. F. Ry., 0.17 mile W. of Center St. Use: Domestic. Bailey No. 3720P.	15870R	486		(c)	11/25/31	105				35					
E-268-L-21	O. G. Meredith. Prado; 0.35 mile E. of Center St., 1,000 feet E. and 100 feet S. of turn to South in highway through Prado. Use: Domestic. Casing: 7 inches. Bailey No. 3721N.	15880	530	x	(c)	9/23/31	95				60					
					(c)	10/ 2/31	96				60					
					(c)	11/25/31	96		19	238	57	168		101	27	b39
E-268b-L-21	R. B. Wardlow. NE. of Prado; 100 feet S. of A. T. & S. F. Ry., 50 feet E. of Yorba St. Use: Domestic. Casing: 7 inches. Bailey No. 3721G.	15880B	512	x	(c)	11/25/31	97				107					
E-268e-L-21	Homer Pate. NE. of Prado; 300 feet NE. of Yorba St., 0.11 mile SE. of intersection of Yorba St. and A. T. & S. F. Ry. Use: Domestic. Casing: 24 inches, tile. Dug well filled around. Bailey No. 3721I.	15880E	541	x48	(c)	9/23/31	103		27	232	117	110		73	28	b79
					(c)	10/ 2/31	101		30	223	117	110		90	24	b63
					(c)	11/25/31	101		35	229	117	104		87	20	b74
E-268g-L-21	C. H. Ashcroft. Prado; 300 feet E. of State Highway on projection of road that is 700 feet S. of State Highway. Use: Irrigation and domestic. Bailey No. 3721W.	15880G	545		(c)	9/22/31	96				50					
					(c)	11/25/31	96				50					
E-269-L-22	Homer Pate. E. of Prado; 650 feet S. of A. T. & S. F. Ry., 0.34 mile E. of intersection of A. T. & S. F. Ry. and Yorba St. Use: Irrigation. Casing: 12 inches. Bailey No. 3721J.	15890	525	x38	(c)	9/23/31	101		27	226	115	107		89	27	b56
E-269a-L-22	Mr. Yorba. E. of Prado; 500 feet S. of A. T. & S. F. Ry., 3,800 feet W. of Railroad Ave. and Smith St. intersection, 2,000 feet NE. of Yorba St. Use: Irrigation. Casing: 8 inches. Gravel 55-80. Bailey No. 3722H.	15890A	528	x80	(c)	12/19/31	104		30	232	117	100		87	25	b63
E-270-L-21	R. B. Wardlow. SE. of Prado; 0.4 mile S. of State Highway, 0.8 mile W. of intersection of Yorba St. and State Highway. Use: Domestic. Casing: 14 inches. Bailey No. 3728A.	15892	611	x164	(c)	9/22/31	111		14	311	28	289		118	52	b39
					(c)	10/ 2/31	112				28					
					(c)	11/25/31	109		9	302	28	288		111	62	b24
E-272-L-22	William Fisher. NE. of Corona; 550 feet SW. of Rincon St., 0.31 mile NW. of Smith Ave. Use: Irrigation. Casing: 12 inches. Bailey No. 3722B.	15900A	536	x48	(c)	9/20/31	181				284					
					(c)	12/19/31	171		34	333	267	106		126	40	b127

TABLE 19. WELLS IN TEMESCAL AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium (Na x 100 / Ca+Mg+Na)	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-272a-L-22	C. E., L. C., and J. E. Lillibridge, Well 4-B. NW. of Corona; 100 feet N. of A. T. & S. F. Ry., 0.30 mile NW. of Smith St. Use: Irrigation. Casing: 15 inches. Gravel 18-100. Bailey No. 3722G.	15900B	535	*x150	(c)	9/20/31	116	.....	33	290	121	115	.....	99	25	[b]81
					(c)	11/24/31	115	.....	.....	.....	117	.....	.....	.....	.....	.....
E-272c-L-22	C. E., L. C. and J. E. Lillibridge, Well 1. NW. of Corona; 500 feet SW. of Rincon St., 800 feet NW. of Smith St. Use: Irrigation. Bailey No. 3723C.	15900D	540	x	(c)	9/20/31	154	.....	39	333	213	103	.....	126	24	[b]122
					(c)	9/30/31	154	.....	37	326	224	111	.....	127	29	[b]119
					(c)	11/24/31	152	.....	37	329	210	104	.....	126	26	[b]115
E-272d-L-22	C. E., L. C. and J. E. Lillibridge, Well 5. NW. of Corona; 1,100 feet SW. of Rincon St., 900 feet SE. of Croydon St., 0.67 mile NW. of intersection of Smith St. and A. T. & S. F. Ry. Use: Irrigation. Gravel 0-48. Bailey No. 3722A.	15900E	527	*x48	(c)	9/20/31	194	.....	33	491	284	94	.....	175	40	[b]136
					(c)	9/30/31	192	.....	.....	.....	287	.....	.....	.....	.....	.....
					(c)	11/24/31	190	.....	34	491	280	98	.....	166	43	[b]140
E-272e-L-22	C. E., L. C. and J. E. Lillibridge, Well 6. NW. of Corona; 700 feet N. of A. T. & S. F. Ry., 2,900 feet W. of Smith St., 600 feet W. of barn. Use: Irrigation. Gravel 18-100. Bailey No. 3722C.	15900F	529	*x100	(c)	9/20/31	134	.....	35	308	167	115	.....	116	25	[b]98
					(c)	9/30/31	135	.....	38	302	171	120	.....	114	23	[b]106
					(c)	11/24/31	123	.....	34	287	145	115	.....	101	28	[b]88
E-272f-L-22	C. E., L. C. and J. E. Lillibridge, Well 3. NW. of Corona; 900 feet N. of A. T. & S. F. Ry., 0.30 mile NW. of intersection of Rincoo and Smith Sts., 1,000 feet SW. of Rincon St. Use: Irrigation. Gravel 18-70. Bailey No. 3722D.	15900G	537	*x125	(c)	9/20/31	159	.....	36	348	231	104	.....	133	30	[b]120
					(c)	9/30/31	156	.....	.....	.....	227	.....	.....	.....	.....	.....
					(c)	11/24/31	150	.....	36	336	210	101	.....	116	34	[b]112
E-272g-L-22	C. E., L. C. and J. E. Lillibridge, Well 2. NW. of Corona; 800 feet N. of A. T. & S. F. Ry., 0.27 mile NW. of intersection of Rincon and Smith Sts. Use: Irrigation. Gravel 24-63. Bailey No. 3722E.	15900H	537	*x68	(c)	9/20/31	148	.....	.....	.....	202	.....	.....	.....	.....	.....
					(c)	9/30/31	142	.....	.....	.....	192	.....	.....	.....	.....	.....
					(c)	11/24/31	144	.....	37	330	192	106	.....	108	34	[b]110
E-272i-L-22	C. E., L. C. and J. E. Lillibridge, Well 4-A. NW. of Corona; 100 feet N. of A. T. & S. F. Ry., 0.30 mile W. of Smith St., 10 feet W. of E-272a-L-22. Use: Irrigation. Casing: 15 inches. Gravel 18-100. Bailey No. 3722F.	15900I	535	*x150	(c)	9/20/31	118	.....	.....	.....	128	.....	.....	.....	.....	.....
					(c)	9/30/31	118	.....	34	278	131	122	.....	101	25	[b]84
					(c)	11/24/31	117	.....	37	293	125	115	.....	96	24	[b]90
E-273a-L-22	Robert McClintock. W. of Corona; 800 feet W. of Smith Ave., 0.30 mile N. of 6th St., 1,000 feet NE. of State Highway. Use: Irrigation. Casing: 16 inches. Bailey No. 3727B.	15901A	662	x217	(c)	9/22/31	81	.....	23	198	68	122	.....	79	24	[b]49
					(c)	10/ 2/31	84	.....	.....	.....	68	.....	.....	.....	.....	.....
					(c)	11/25/31	84	.....	27	198	66	124	.....	79	20	[b]48
E-274c-L-22	W. W. Nickle. NW. of Corona; 100 feet SW. of Railroad St., 700 feet SE. of Smith St. Use: Domestic. Casing: 3′ x 4′, dug well. Bailey No. 3723K.	15910D	592	x79	(c)	12/19/31	98	.....	35	232	96	98	.....	78	20	[b]68
					1214	7/28/32	88 9	0 16	37	232	94	108	13	79	22	79
					1302	9/ 1/32	88 3	0 15	38	232	92	98	18	79	22	79
					1450	10/ 2/32	88 6	0 20	.....	229	92	.....	.....	.....	.....	.....
					1499	10/29/32	88 7	0 19	38	229	89	107	13	77	22	78
					1558	12/ 3/32	87 8	0 18	.....	235	89	.....	.....	.....	.....	.....
					1700	1/ 5/33	88 4	0 14	.....	229	91	.....	.....	.....	.....	.....
					1749	2/ 6/33	87 6	0 14	.....	229	91	.....	.....	.....	.....	.....
E-274d-L-22	North Corona Land Co. NW. of Corona; 0.28 mile NE. of Rincon St., 300 feet E. of Smith St., extended. South well. Use: Irrigation. Bailey No. 3723B.	15910E	546	125	(c)	9/20/31	250	.....	31	748	369	64	.....	236	56	[b]173
					(c)	9/30/31	234	.....	.....	.....	369	.....	.....	.....	.....	.....
					(c)	11/25/31	196	.....	32	479	316	92	.....	184	41	[b]139
E-274e-L-22	L. F. Robinson. N. of Corona; 0.12 mile NE. of Rincon St., 25 feet NW. of a dirt road which is 900 feet NW. of Smith St. Use: Irrigation. Bailey No. 3723N.	15910F	538	80	(c)	11/25/31	190	.....	35	540	277	84	.....	170	42	[b]147
E-275e-L-22	A. F. Call Estate, Pump 67. NW. of Corona; 100 feet E. of Sherman St., 1,055 feet S. of Railroad Ave., 25 feet N. of the south well (Bailey No. 3726B or E-275-L-22). Use: Irrigation. Casing: 12 inches in bottom of 100-foot pit.	15911E	628	.....	(e)	Sept. 1918	.....	.....	40	250	141	131	10	87	26	[b]100
					(f)	3/26/25	.....	.....	39	250	122	126	.....	97	23	[b]97
					(f)	6/23/25	.....	.....	34	253	114	124	.....	95	22	[b]77
					(f)	8/25/25	.....	.....	29	247	111	114	.....	96	24	[b]66
					(f)	12/ 7/27	.....	.....	32	244	114	124	.....	94	24	[b]71
					(c)	9/22/31	104	.....	31	238	114	119	.....	89	26	[b]67
					(c)	11/28/31	105	.....	37	238	114	117	.....	88	20	[b]80
E-276-L-22	Corona Foothill Lemon Co. Corona; 50 feet W. of Lincoln Ave., 400 feet N. of W. 6th St. Use: Irrigation. Casing: 16 inches. Perforated 150-156; 162-201. Bailey No. 3726G.	15912	678	*x204	(c)	9/13/31	92	.....	31	194	103	122	.....	86	20	[b]61
					(c)	10/ 2/31	91	.....	.....	.....	103	.....	.....	.....	.....	.....
					(c)	11/28/31	96	.....	16	189	124	87	.....	98	26	[b]31
E-276c-L-22	Jamison Estate. SW. of Corona; 50 feet W. of Lincoln Ave., 0.29 mile S. of Olive St. Use: Irrigation. Bailey No. 3735A.	15913	797	*x376	(c)	9/13/31	95	.....	23	229	78	158	.....	94	29	[b]49
					(c)	10/ 2/31	96	.....	18	229	79	138	.....	104	25	[b]36
					(c)	11/28/31	94	.....	18	259	85	118	.....	97	32	[b]37
E-277a-M-22	First Trust & Savings Bank of Pasadena. SW. of Corona; 0.45 mile S. of Ontario Ave., 50 feet E. of Mangular Ave. Use: Irrigation. Bailey No. 473A.	15904	950	*400	(d)	11/19/31	.....	.....	7	296	28	301	.....	132	55	[b]17
					(c)	11/20/31	114	.....	.....	.....	29	.....	.....	.....	.....	.....

TABLE 19. WELLS IN TEMESCAL AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10³ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-277b-M-22	Harry Whitcomb. SW. of Corona; 0.60 mile S. of Ontario Ave., 250 feet W. of Mangular Ave. North well. Use: Irrigation. Bailey No. 473B.	15904A	969	x	(c)	11/20/31	131		16	253	36	407		113	70	[b]50
E-278-M-22	Hillcrest Ranch. S. of Corona; 0.15 mile SW. of Hill St., 0.20 mile E. of Lincoln Ave. Use: Irrigation. Bailey No. 4711A.	15916	1,150	*390	(c)	11/20/31	115		15	210	60	299		125	41	[b]39
E-279b-L-22	Stearns Ranch. NW. of Corona; 60 feet SE. of Goodwin St., 80 feet SW. of Harrington St. Use: Irrigation. Bailey No. 3723F.	15920B	562	95	(c)	9/20/31	182		32	345	295	108		156	39	[b]118
					(c)	9/30/31	188				297					
					(c)	11/24/31	177		37	342	295	106		153	30	[b]137
E-279e-L-22	Mr. Harris. NW. of Corona; 300 feet SW. of Rincon St., 200 feet SE. of Goodwin St., extended. Use: Irrigation. Bailey No. 3723J.	15920C	555	60	(c)	9/20/31	177		40	339	277	116		144	27	[b]145
E-280-L-22	Corona Heights Water Co., Hazard Well 2. NW. of Corona; 825 feet E. of Railroad St., 345 feet NE. of A. T. & S. F. Ry., 960 feet NW. of Cota St. Use: Irrigation. Casing: 12 inches. Bailey No. 3724Y.	15921A	571	x100	(c)	June 1930				366	320					
					(c)	9/22/31	176				277					
					(c)	10/ 5/31	178				280					
					(c)	12/18/31	176		41	348	277	109		134	31	[b]149
E-280a-L-22	Corona Heights Water Co., Hazard Well 1. NW. of Corona; 510 feet NE. of Railroad St., 970 feet NW. of Cota St., 30 feet NE. of A. T. & S. F. Ry. Use: Not used since 1920. Gravel 20-60. Bailey No. 3725A.	15921A	585	*60	(c)	Sept. 1918			53	192	176	109	12	73	28	[b]154
					(c)	Sept. 1918			25	217	30	369	4	121	35	[b]70
E-280e-L-22	George Shepard. NW. of Corona; 100 feet N. of Railroad St., 300 feet SE. of Buena Vista St. Use: Abandoned, formerly irrigation and domestic. Bailey No. 3725D.	15921E	594	*x85	(c)	9/22/31	149		36	332	217	104		124	32	[b]112
					(c)	10/ 5/31	152		35	332	217	109		126	32	[b]112
E-281-L-22	B. Chapin. N. of Corona; 125 feet W. of Hamner Ave., 400 feet N. of intersection of Cota St. and Hamner Ave. Use: Domestic. Casing: 12 inches. Bailey No. 3724G.	15930	577	x54	(c)	9/30/31	94				163					
					(c)	11/19/31	94		41	162	158	46		51	27	[b]76
E-281a-L-22	A. S. Miller. N. of Corona; 150 feet SW. of River St., 0.13 mile NW. of intersection of River St. and Hamner Ave. Use: Domestic. Bailey No. 3724S.	15930A	584	x80	(c)	9/20/31	206		33	433	327	127		177	47	[b]142
					(c)	9/30/31	200				327					
					(c)	11/19/31	207				331					
E-281d-L-22	Mr. Iriat. N. of Corona; 30 feet NE. of Auburndale Road (River St.), 0.10 mile SE. of Cota St. Use: Irrigation. Bailey No. 3724P.	15930D	581	x120	(c)	9/20/31	199		33	406	323	114		174	41	[b]138
					(c)	9/30/31	194				323					
E-281e-L-22	G. F. Major. N. of Corona; 200 feet SW. of Auburndale Road (River St.), 0.15 mile NW. of intersection of Auburndale Road (River St.) and Hamner Ave. Use: Domestic. Casing: 8 inches. Bailey No. 3724R.	15930E	583	x100	(c)	9/20/31	208				329					
					(c)	9/30/31	205				332					
					(c)	11/19/31	204				327					
E-281f-L-22	Orange Heights Water Co., Well 1-B. N. of Corona; 50 feet E. of Hamner Ave., 400 feet N. of Auburndale Road (River St.), 80 feet N. of Well 1-A. Use: Irrigation. Bailey No. 3724T.	15930F	587	x162	(c)	11/28/31	177		35	354	284	115		148	37	[b]132
E-281j-L-22	George Baer. N. of Corona; 150 feet W. of Cota St., 0.20 mile S. of intersection of Cota St. and Auburndale Road (River St.). Use: Irrigation and domestic. Bailey No. 3724W.	15930J	580	x	(c)	9/20/31	196				315					
					(c)	9/30/31	194				316					
					(c)	11/24/31	193		32	384	314	122		175	40	[b]129
E-281k-L-22	W. DeWitt. N. of Corona; 0.22 mile SE. of Goodwin St., 175 feet NE. of Auburndale Road (River St.). Use: Domestic and irrigation. Casing: 7 inches. Bailey No. 3724AA.	15930K	565	70	(c)	9/22/31	79		39	156	124	46		59	16	[b]63
					(c)	9/30/31	77				121					
					(c)	11/24/31	80		46	150	125	43		53	13	[b]72
E-281l-L-22	Ed. Curry. N. of Corona; 25 feet NE. of Joy St., 0.21 mile SE. of Goodwin St. Use: Domestic and irrigation. Bailey No. 3724D.	15930L	584	x70	(c)	9/30/31	65				103					
					(c)	11/20/31	69				100					
E-282-L-22	Atchison, Topeka & Santa Fe Ry., Corona Well 2. Corona; 530 feet E. of Main St., 80 feet N. of A. T. & S. F. Ry. main track. Use: Boiler feed and domestic. Casing: 15 inches.	15931	606	x167	(c)	2/10/16			38	103	372	107	10	112	35	[b]117
E-282a-L-22	Corona Foothill Lemon Co., Well 1. Corona; 175 feet W. of Merrill St., 128 feet N. of 3d St., 60 feet W. of Well 2. Use: Irrigation. Gravel 97-160. Samples are all composite of Wells 1 and 2.	15931A		*165	(c)	6/ 7/16				252	161		26			
					(c)	Aug. 1918			43	268	140	149	8	85	29	[b]114
					(c)	April 1919			33	260	141	135	13	112	28	[b]91
					(c)	1923				268	114					
E-282c-L-22	Corona Foothill Lemon Co., Well 3. Corona; 175 feet W. of Merrill St., 128 feet N. of 3d St. Westerly well of three. Use: Irrigation and domestic. Casing: 18 inches. Gravel 90-146. Bailey No. 3725G.	15931C	634	*x167	(c)	9/13/31	115		40	256	105	192		100	25	[b]94
					(c)	10/ 2/31	109		36	271	105	151		96	24	[b]88
					(c)	11/19/31	111		34	253	110	143		93	25	[b]80

TABLE 19. WELLS IN TEMESCAL AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10 at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-282d-L-22	Orange Heights Water Co., Plant 1-A. N. of Corona; 50 feet E. of Hamner Ave., 320 feet N. of intersection of Hamner Ave. and Auburndale Road (River St.). Use: Irrigation. Casing: 26 inches. Gravel 0-162. Bailey No. 3724U.	15931D	586	162	(f)	4/ 4/25			38	326	331	104	-	155	32	[b]145
					(f)	5/25/25			38	342	335	102		157	33	[b]151
					(f)	8/31/25			38	320	322	101		143	36	[b]144
					(f)	10/ 3/30			40	366	309	119		150	35	[b]156
					(e)	9/20/31	186		37	366	295	122		149	38	[b]143
E-282h-L-22	Mr. Milese. N. of Corona; 500 feet W. of Hamner Ave., 0.12 mile S. of intersection of Auburndale Road (River St.) and Hamner Ave. Use: Irrigation. Gravel 20-90. Bailey No. 3725B.	15931H	582	*x90	(c)	12/18/31	185		37	375	291	120		154	35	[b]143
E-285-M-22	Gannhl Estate. S. of Corona; 10 feet N. of Main St., 0.60 mile S. of Hill St. Use: Irrigation. Bailey No. 4714A.	15927	1,336	*x60	(e)	10/ 5/31	136				32					
					(e)	11/20/31	158		9	473	32	445		130	118	[b]36
E-286-L-22	Exchange Lemon Products Co. Corona; 200 feet N. of A. T. & S. F. Ry. main track, 135 feet E. of Joy St. Use: Industrial. Gravel 20-66. Bailey No. 3725F.	15941	606	*x66	(f)	4/ 4/25			38	323	319	103		150	33	[b]141
					(f)	5/25/25			39	296	318	104		144	30	[b]144
					(f)	8/25/25			37	299	305	103		144	32	[b]133
					(f)	12/ 7/27			39	329	344	112		154	36	[b]155
					(e)	9/20/31	171		40	335	267	111		128	34	[b]140
					(e)	9/30/31	169		42	314	266	115		122	32	[b]144
					(e)	11/19/31	173		42	320	267	113		122	32	[b]146
E-286a-L-22	Mr. Evans. N. of Corona; 50 feet E. of Joy St., 0.47 mile N. of A. T. & S. F. Ry. Use: Irrigation. Bailey No. 3724X.	15941A	593	x80	(e)	9/20/31	178		40	320	288	118		136	33	[b]144
					(e)	9/30/31	175		42	311	286	118		137	27	[b]151
					(e)	11/19/31	178		37	326	284	117		140	35	[b]134
E-286b-L-22	J. W. Campbell. N. of Corona; 30 feet E. of Joy St., 0.26 mile N. of A. T. & S. F. Ry. Use: Irrigation. Casing: 12 inches. Bailey No. 3725C.	15941B	595	x115	(e)	9/20/31	227		58	598	327	125		202	51	[b]167
					(e)	9/30/31	190				291					
					(e)	11/19/31	181		25	332	279	122		193	27	[b]91
					(g)	12/15/32	165	0.34	45	305	279	208	22	139	32	[b]184
E-286c-L-23	C. C. Parkridge. NE. of Corona; 1,150 feet N. of A. T. & S. F. Ry., 2,900 feet E. of Joy St., 600 feet S. of Parkridge Tennis Courts. Use: Irrigation. Bailey No. 3630A.	15951	608	x78	(e)	12/21/31	172		48	250	305	129		87	44	[b]170
E-286e-L-22	Fred Dixon. N. of Corona; 250 feet NE. of Joy St., 0.18 mile SE. of intersection of Hamner Ave. and Joy St. Use: Domestic. Casing: 10 inches. Bailey No. 3724Q.	15940	603	100	(e)	9/20/31	121				174					
					(e)	9/30/31	121		39	217	178	101		89	25	[b]95
					(e)	11/19/31	124		37	226	188	86		95	25	[b]91
E-287-L-23	City of Corona. Corona; 600 feet N. of 6th St., 500 feet E. of Grand Blvd., 70 feet S. and 95 feet E. of NW. corner of city park. Use: Irrigation and domestic. Casing: 12 inches. Bailey No. 3630B.	15942	657	*x150	(e)	12/19/31	107		38	299	103	121		91	22	[b]91
E-287a-L-22	Temescal Water Co. Corona; 45 feet N. of 3d St., 125 feet E. of Joy St. Use: Domestic. Casing: 16 inches. Gravel 78-203. Bailey No. 3725I.	15942A	643	*x221	(e)	9/20/31	127		32	308	146	111		108	29	[b]84
					(e)	9/30/31	127				146					
					(e)	11/19/31	128		36	305	153	100		104	25	[b]94
E-287e-L-23	J. Wightman. E. of Corona; 30 feet N. of Commercial St., at angle, 700 feet E. of Rimpau St., 0.51 mile E. of Grand Blvd. Use: Domestic. Casing: 7 inches. Bailey No. 3630E.	15952	659	x96	(c)	12/18/31	115		32	296	82	192		104	29	[b]81
E-287e-L-23	Temescal Water Co., Call Well. SE. of Corona; 0.20 mile E. of Rimpau Ave., 0.18 mile S. of intersection of Magnolia and Rimpau Avenues. Use: Irrigation. Bailey No. 3631A.	15953	727	x	(e)	9/20/31	111		24	259	96	161		108	29	[b]57
					(e)	12/18/31	101		29	256	82	151		96	25	[b]64
E-287f-L-23	Kuster and Waterbury. E. of Corona; 200 feet S. of Sampson St., 0.23 mile E. of Rimpau Ave., 20 feet E. of stock bins at gravel pit. Use: Washing gravel. Gravel 31-92. Bailey No. 3630X.	15952B	630	*92	(e)	9/23/31	159				242					
					(e)	10/ 2/31	154				234					
					(e)	11/19/31	157				224					
E-291d-L-23	W. H. Jamison. E. of Corona; 130 feet N. of 6th St., 0.62 mile E. of Porphyry Spur of A. T. & S. F. Ry. Use: Irrigation. Casing: 18 inches. Perforated 55-70; 90-126; 140-166. Bailey No. 3629C.	15972A	651	*170	(e)	10/ 2/31	121				153					
					(e)	11/19/31	126		39	302	153	91		96	24	[b]100
E-291e-L-23	Kuster and Waterbury. E. of Corona; 250 feet S. of 6th St., 400 feet W. of A. T. & S. F. Ry branch line to Elsinore. Use: Irrigation. Bailey No. 3629D.	15962A	634	x	(e)	12/19/31	157		45	339	245	102		115	27	[b]152
E-291f-L-23	W. H. Jamison. E. of Corona; 0.37 mile SE. of Magnolia Ave., 60 feet E. of dirt road which is 0.15 mile SW. of intersection of 6th St. and Magnolia Ave. Use: Irrigation, domestic and stock. Gravel 30-80. Bailey No. 3632A.	15972B	663	*90	(e)	9/23/31	92		34	293	82	78		73	26	[b]67
					(e)	10/ 2/31	94				82					
					(e)	11/19/31	94		35	290	85	76		72	25	[b]70

TABLE 19. WELLS IN TEMESCAL AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10³ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-292a-M-23	R. H. Verity, Sons & Co. SE. of Corona; 0.5 mile SE. of Porphyry Road, 600 feet NE. of Ontario Ave. Use: Irrigation. Bailey No. 468A.	15975	880	*180	(c) (c)	10/12/31 12/19/31	120 153	..	... 35	... 302	124 188	 180	.. ....	... 137	.. 27	.. [b]113
E-294b-L-23	W. H. Rapson. E. of Corona; 1,420 feet SE. of Magnolia Ave., 650 feet NE. of Johnson St. Use: Irrigation. Casing: 16 inches. Perforated 92-107; 140-161; 169-179; 191-209.	15991	695	*218	(c) 296	April 1930 9/15/31	89.1	0.25	44	330 [a]323	98 76	79	21	66	27	101
E-294d-L-24	Sherman Indian Institute. E. of Corona; 0.25 mile SE. of Magnolia Ave., 300 feet SW. of Lincoln St. Use: Domestic. Bailey No. 3627A.	15991B	716	x180	(c) (c) 706	10/2/31 11/19/31 2/12/32	82 85 77.0	0.22	44	268 277	60 64 64	69 ..		54	20	[b]75
E-294e-L-23	Riverside Valley Home Gardens Tract. E. of Corona; 125 feet NW. of Magnolia Ave., 30 feet SW. of Grant St. Use: Irrigation and domestic. Casing: 8 inches. Bailey No. 3628D.	15981A	667	x200	(c) (c)	10/2/31 11/19/31	134 138	..	.. 39	311	181 181	95	..	110	23	[b]110
E-295-L-23	Glass and Tuthill. E. of Corona; 80 feet SW. of Grant St., 0.15 mile SE. of Magnolia Ave. Use: Irrigation. Bailey No. 3628E.	15982	671	x200	(c) (c)	10/2/31 11/19/31	90 92	.. ..	41 43	326 329	60 57	74 69	.....	68 63	20 20	[b]81 [b]83
E-296-M-23	Temescal Water Co. SE. of Corona; 3,500 feet NE. of State Highway, 250 feet W. of A. T. & S. F. Ry., 300 feet SE. of Lemon St. on W. edge of Temescal Wash. Use: Irrigation. Gravel 3-50. Bailey No. 469A.	15985	742	*x70	(c) (c)	10/5/31 12/18/31	109 111		29 24	281 275	53 50	261 248	....	117 109	28 35	[b]77 [b]62
E-297a-M-23	Temescal Water Co. SE. of Corona; 2.0 mile SE. of Porphyry Ave., 200 feet NE. of State Highway. Use: Irrigation. Bailey No. 4616A.	15986	850	...	(c) (c)	10/12/31 12/18/31	111 111	.....	.. 29	262	52 50	.. 262	....	107	.. 31	[b]74
E-316-M-25	Mrs. I. Suhm. S. of Riverside; 75 feet E. and 140 feet N. of center of NE. ¼, Sec. 6, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic.	16064	1,325		(c)	July 1930	.	...	...	134	284	.	..	..	....	-
E-316a-M-25	A. L. Gabrielson. S. of Riverside; 285 feet W. and 315 feet N. of center of NE. ¼, Sec. 6, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Domestic and irrigation.	16064A	1,325		(c)	July 1926	.	.	..	92	142	.		....	..	
E-316b-M-25	Mr. Hogarth. S. of Riverside; 80 feet W. and 230 feet S. of NE. corner, Sec. 7, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Domestic and irrigation.	16065	1,320		(c)	May 1928	.	.....	23	160	36	51	.....	34	22	[b]24
E-316c-M-25	Isaac Stump. S. of Riverside; 640 feet E. and 320 feet S. of the NW. corner of SW. ¼ of NW. ¼, Sec. 8, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. Casing: 4′ x 4′ dug well.	16065A	1,290	20	(c)	May 1928			59	335	578	280		160	42	[b]373
E-316d-M-25	H. E. Miller. S. of Riverside; 66 feet E. and 6 feet N. of NW. property corner at center of NE. ¼, Sec. 7, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation. Dug well.	16065B	1,295	50	(c)	Dec. 1927			....	152	320	..	.	....	..	
E-316e-M-25	Honeywell Ranch. S. of Riverside; 60 feet W. and 15 feet N. of the NE. corner of SE. ¼ of SW. ¼ of NW. ¼, Sec. 8, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic.	16065C	1,295	24	(c)	May 1928			54	332	340	329	.	96	66	[b]275
E-317-M-25	Frank Gonzalez. S. of Riverside; 185 feet S. and 115 feet W. of NE. corner of SE. ¼ of SW. ¼ of NW. ¼, Sec. 8, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic.	16066	1,300	41	(c)	May 1928			49	225	100	38	.	52	14	[b]82
E-317a-M-25	A. F. Patterson. S. of Riverside; 1,010 feet W. and 235 feet N. of E. ¼ corner, Sec. 7, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. Casing: 4 feet diameter, dug well.	16066A	1,285	19	(c)	Nov. 1927				150	116	.....				-
E-317b-M-25	T. M. Frazier. S. of Riverside; 25 feet W. and 360 feet N. of the center of Sec. 8, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic.	16076	1,305	50	(c)	Oct. 1927				292	400				-	
E-317c-M-25	Mrs. Wm. Marder, Well 1. S. of Riverside; 1,045 feet E. and 300 feet S. of NE. corner of SW. ¼ of SW. ¼, Sec. 17, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic.	16077		60	(c)	Sept. 1926				160	64	.....	.....	.		---

TABLE 19. WELLS IN TEMESCAL AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million): Bicarbonate radicle (RCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-317d-M-25	Mrs. Wm. Marder, Well 2. S. of Riverside; 345 feet E. and 250 feet S. of the NE. corner of SW. ¼ of SW. ¼, Sec. 17, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Domestic and irrigation.	16077A		47	(e)	Mar. 1928				164	35					
E-322-M-25	Miner Lewis. S. of Riverside; 765 feet N. and 83 feet E. of the SW. corner of Sec. 9, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic. Casing: 4′ x 4′ dug well. 60 feet of decomposed granite, bottom 20 feet shot.	16086	1,385	*60	(e)	May 1928			39	160	45	42		30	18	[b]43
E-322a-M-25	John Taylor. S. of Riverside; 150 feet S. and 1,260 feet E. of center of Sec. 9, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation.	16096	1,370	20	(e)	April 1928				250	990					
E-322b-M-25	Mrs. Hawkins. S. of Riverside; 725 feet S. and 650 feet E. of center of Sec. 9, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic.	16096A	1,350	73	(e)	April 1928				314	425					
					(e)	May 1928			47	345	460	253		116	83	[b]258
					(e)	July 1928				347	476					
					(e)	Nov. 1928			54	207	284	168		74	40	[b]185
E-322c-M-25	Cajalco School. S. of Riverside; on N. and S. center line of Sec. 9, T. 4 S., R. 5 W., S. B. B. & M., 900 feet S. of E. and W. center line of Sec. 9. In Cajalco Canyon. Use: Abandoned and filled up. Dug well.	16096B	1,355	32	(e)	May 1928			39	295	518	246		172	78	[b]220
E-322d-M-25	Mr. Holthier. S. of Riverside; 820 feet S. and 200 feet W. of the center of Sec. 9, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation.	16096C	1,360	50	(e)	May 1928			53	418	630	332		140	92	[b]375
E-322e-M-25	Ben Yan Dell. S. of Riverside; 830 feet S. and 380 feet W. of the center of Sec. 9, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation.	16096D	1,360	35	(e)	May 1928				353	345					
E-326-M-26	H. Peters. S. of Riverside; 750 feet E. and 350 feet S. of the SE. corner of NE. ¼ of NW. ¼, Sec. 10, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation.	16105	1,400		(e)	June 1926			76	580	390	160		46	27	[b]335
E-326a-M-26	E. B. White. S. of Riverside; 145 feet W. and 160 feet N. of SE. corner of NE. ¼ of NW. ¼, Sec. 10, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation. Casing: 4 feet diameter, concrete. Dug well.	16105A	1,395	25	(e)	June 1930				510	745					
E-326b-M-26	E. B. White. S. of Riverside; 115 feet W. and 180 feet N. of SE. corner of NE. ¼ of NW. ¼, Sec. 10, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Abandoned.	16105B	1,395		(e)	Oct. 1927			21	256	67	40		42	27	[b]26
					(e)	May 1928			39	192	107	53		52	23	[b]66
E-327-M-26	G. H. George. S. of Riverside; 410 feet N. and 340 feet W. of the center of Sec. 10, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation.	16106	1,400		(e)	June 1927				207	437					
					(e)	Dec. 1930				225	390					
E-332-M-26	R. H. Kirkpatrick. S. of Riverside; 115 feet W. and 50 feet N. of the SE. corner of SW. ¼ of NE. ¼ of SW. ¼, Sec. 11, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation. Casing: 3′ x 4′ dug well with two 3′ x 5½′ tunnels, 10 feet long, E. and W.	16126	1,470	32	(e)	Aug. 1927			50	201	60	90		40	18	[b]80
E-332a-M-26	Willis Porter. S. of Riverside; 340 feet S. and 425 feet W. of the center of Sec. 11, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation.	16126A	1,445	24	(e)	Aug. 1927			59	398	248	123		100	15	[b]207
E-332b-M-26	W. H. Wells. S. of Riverside; 200 feet W. and 30 feet N. of the SE. corner of NE. ¼ of SW. ¼ of Sec. 11, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation.	16126B	1,495	55	(e)	4/20/26				220	81					
E-332c-M-26	A. D. Randall. S. of Riverside; 20 feet W. and 955 feet S. of E. ¼ corner of Sec. 11, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation. Casing: 4 feet diameter, dug well.	16136	1,475	13	(e)	Aug. 1930			59	177	485	127		110	27	[b]250
E-337-M-27	Winsor and Mosgrove. S. of Riverside; 700 feet S. and 200 feet W. of the center of Sec. 7, T. 4 S., R. 4. W., S. B. B. & M. In Cajalco Canyon. Use: Domestic and irrigation.	16156	1,551		(g)	4/3/33	212	0.08	40	262	475	136	27	175	50	193

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
E-337a M-26	Lewis Jackson. S. of Riverside; 315 feet S. and 10 feet W. of the NE. corner of NW. ¼ of SE. ¼, Sec. 12, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic.	16146	1,540	.....	(e) (e)	Nov. 1926 June 1928	....	....	....	276 275	610 620	....	.....	....	....	.....
E-337b M-26	Frank M. Smith. S. of Riverside; 98 feet W. and 205 feet S. of the NW. corner of SW. ¼ of SE. ¼, Sec. 12, T. 4 S., R. 5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation and domestic.	16146A	1,520	50	(e)	June 1929		.....	40	195	142	190	.....	80	26	193

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.
[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Analysis by Edward S. Babcock and Sons, Riverside, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillibridge, et al), in the Superior Court of the State of California, in and for the County of Riverside.
[d] Analysis by Association Laboratory, Anaheim, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillibridge, et al), in the Superior Court of the State of California, in and for the County of Riverside.
[e] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[f] Analysis by Edward S. Babcock and Sons, Riverside, California.
[g] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10³ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1058a-M-17	Santa Ana Valley Irrigation Co., Well 8. W. of Olive; 100 feet W. of Batavia St., 700 feet S. of Anaheim-Olive Blvd. Use: Irrigation. Casing: 24 inches.	15636B	202	.....	335	9/19/31	62 6	0 09	33	232	46	62	4	62	16	50
C-1106a-M-17	Batavia Water Co. SW. of Olive; 1,000 feet S. of Fletcher Ave., 1,500 feet E. of Batavia St. Use: Irrigation. Casing: 16 inches. Perforated 120-143; 185-187; 195-196; 205-216; 221-241; 250-280; 295-307.	15647	195	*x311	268	8/27/31	60 8		28	244	39	53	7	66	17	41
C-1108-N-17	Citrus Well Association. Villa Park; 300 feet S. of Villa Park Road, 15 feet W. of Wanda Ave. along W. side of S. P. R. R. Use: Domestic.	15679	300	x550	(d)	Oct. 1918	..	. . .	25	[a]231	62	154	11	92	21	[c]49
C-1109-N-18	Villa Park Mutual Water Co., Gray Tract Plant 1. Villa Park; 660 feet N. of Lincoln St., 900 feet W. of Center Drive. Use: Domestic and irrigation. Casing: 20 inches. Gravel 230-242; 259-264; 268-275; 290-301; 320-327; 334-337; 343-365; 384-398; 424-432; 440-458; 466-476; 480-494 ;498-506; 520-542; 558-568.	15689	320	*x576	(d) (d)	Oct. 1918 June 1927	....	..... 0 21	29 21	[a]213 216	27 32	114 130	4	65 70	19 25	[c]46 [c]33
C-1109d-N-18	Villa Park Mutual Water Co., Plant 5. Villa Park; 1,630 feet E. of Center Drive, 1,360 feet S. of Villa Park Road. Use: Domestic and irrigation. Casing: 18 inches. Gravel 207-286; 319-326; 351-362; 362-389; 411-419; about 470; about 512.	15699	335	*542	(d) (d) (d)	Oct. 1918 July 1919 June 1928	....	....	25 28 14	[a]262 229 253	39 50 31	177 68 200	8 7	86 72 90	29 16 44	[c]52 [c]43 [c]30
C-1109e-N-18	Villa Park Well Co. Villa Park; 35 feet W. of Sycamore St., 360 feet S. of Serrano Ave. Use: Irrigation. Casing: 20 inches.	15698	395	240	(d)	Oct. 1918	.....	.....	41	[a]328	67	226	8	76	39	[c]113
C-1109g-N-18	John T. Carpenter Water Co., Well 1. NE. of Orange; 350 feet E. of Alameda St., 380 feet N. of Collins Ave., extended. Use: Abandoned in 1925, formerly irrigation.	15699A	330	473	(d)	Oct. 1918	.....	.....	38	[a]262	31	173	8	81	15	[c]74
C-1109h-N-18	John T. Carpenter Water Co., Well 2. NE. of Orange; 375 feet E. of Alameda St., 370 feet N. of Collins Ave., extended. Use: Irrigation.	15699B	330	410	(d)	Oct. 1918	. .....	..... .	26	[a]234	33	172	9	84	27	[c]53
C-1110-N-18	Villa Park Mutual Water Co., Gray Tract Plant 2. Villa Park; 60 feet N. of Lincoln St., 1,240 feet W. of Center Drive. Use: Irrigation.	15689A	317	480	(d)	Oct. 1918	..	.	24	[a]244	35	176	10	84	29	[c]48
C-1112-N-18	Santa Ana Valley Irrigation Co., Well 9. E. of Orange; 0.15 mile N. of Walnut Ave., 400 feet E. of Prospect Ave. Use: Irrigation. Casing: 26 inches.	14580A	290	x1,106	263	8/27/31	61 9	.....	31	[a]217	27	98	4	62	19	48
C-1113-N-17	David Hewes Mutual Water Co. E. of Orange; 0.12 mile W. of Prospect Ave., 0.25 mile S. of Chapman Ave. Use: Irrigation. Casing: 18 inches. Gravel 132-140; 150-204; 234-238; 270-290; 380-430.	14571	251	*x430	(d) (d)	Nov. 1918 Mar. 1930	....	....	24 59	256 231	33 60	160 275	0	84 50	27 25	[c]47 [c]153
C-1115-O-18	A. M. Robinson. NE. of Santa Ana; 0.25 mile E. of Prospect Ave., 20 feet S. of Fairhaven Ave. Use: Not used since 1929. Casing: 24 inches.	14582	220	x350	(d)	Nov. 1918	.....	.. ..	35	223	45	79	1	58	17	[c]54
C-1150b-N-17	Santa Ana Valley Irrigation Co., Well 12. Orange; 0.28 mile N. of Fairhaven Ave., 150 feet E. of Cambridge St. Use: Irrigation. Casing: 26 inches.	14552B	206	x800	260	8/27/31	49 6	... ..	34	204	20	58	4	51	13	44
C-1150c-N-17	City of Orange, Well 5. Orange; 100 feet N. of Almond Ave., 100 feet E. of Water St. Use: Municipal. Gravel 65-75; 117-133; 156-163; 181-185; 195-201; 231-239; 251-265; 277-297; 301-323; 441-459; 520-527; 619-627; 652-675; 698-723.	14551	219	*750	(e)	4/23/31	.	. . . .	.....	220	50	[b]90	.....	.... ..	.....	.....
C-1151a-O-16	City of Santa Ana, Well 14. NW. of Santa Ana; 100 feet E. of Bristol St., 100 feet S. of Santiago Creek. Use: Municipal. Casing: 20 inches. Gravel 78-94; 105-125; 164-182; 246-250; 342-360; 386-396; 402-405; 417-424; 578-603; 605-622; 702-715; 756-758.	14513	120	*1,050	(e) 264 (f)	4/23/31 8/27/31 9/ 4/31	. .... 55 5	. --- .	 26	222 229 [a]242	35 30 35	[b]30 51	..... 7 .	 65	 14	 36
C-1162b-O-16	J. H. Stewart. W. of Santa Ana; 200 feet N. of W. 5th St., 100 feet W. of King St. Use: Not used. Casing: 12 inches.	14495A	85	x	(f)	9/ 4/31	. . . .	---	.....	[a]319	62	.....	-- -	----	.....	- ---
C-1162c-O-16	Clarence L. Nichols. W. of Santa Ana; 100 feet S. of 5th St., 600 feet W. of Sullivan St. Use: Domestic. O. C. F. C. D. Surface Water Test Well 216.	14495B	84	.....	(f) 631	9/ 9/31 1/19/32	107	0 25	35	[a]349 360	104 112	. . 139	0	68	53	. --- 99

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1164a-O-16	City of Santa Ana, Well 7. Santa Ana; 50 feet S. of First St., 25 feet E. of Flower St., 25 feet N. of Well 8. Use: Municipal. Casing: 16 inches. Perforated 426-438; 885-907.	14525A	104	*x960	(e)	4/23/31	.....	.	....	220	37	[b]35	.....	.....	.....	....
C-1164b-O-16	City of Santa Ana, Well 13. Santa Ana; 200 feet E. of Flower St., 75 feet N. of Walnut St., 300 feet S. of First St. Use: Municipal. Casing: 18 inches. Gravel 294-303; 324-348; 888-906.	14525B	104	*950	(e)	4/23/31	.....	....		226	40	[b]55	.....	.....	.....	
C-1164d-O-16	City of Santa Ana, Well 12 East. Santa Ana; 325 feet E. of Olive St., 175 feet N. of 6th St., 25 feet E. of C-1191-O-16. Use: Municipal. Casing: 16 inches. Perforated 330-368; 440-456.	14525K	113	*x466	(e)	4/23/31	.....	..		214	25	[b]45		..	.	
C-1164e-O16	City of Santa Ana, Well 15. Santa Ana; 150 feet S. of First St., 250 feet W. of Flower St. Use: Municipal. Casing: 26 inches. Perforated 214-225; 293-337; 340-350; 358-375; 470-490; 565-574; 875-942; 1030-1042.	14525C	103	*1,140	(e) 305	4/23/31 9/17/31	 84.4	 0.12	 22	232 265	47 69	[b]50 101	 8	 100	 24	 45
C-1165a-O-17	Atchison, Topeka & Santa Fe Ry. Santa Ana; 200 feet S. of 4th St., 50 feet E. of A. T. & S. F. Ry. Near depot. Use: Industrial. Gravel 4-70; 75-80; 130-140; 150-160; 280-300.	14545A	114	*510	265	8/27/31	87.7	..	20	277	69	119	14	98	33	45
C-1174a-P-16	La Bolsa Tile Co. SW. of Santa Ana; 1,200 feet S. of Edinger St., 200 feet W. of Greenville Road. Use: Irrigation. Casing: 10 inches.	14497	53	150	689	2/3/32	63.5	0.18	22	235	39	74	4	78	18	36
C-1174b-P-16	S. H. Manderscheid and W. R. McClintock. SW. of Santa Ana; 700 feet E. of Greenville Road, 20 feet S. of Delhi Road. Use: Irrigation and domestic. Casing: 12 inches.	14498	44	x800	686	2/3/32	44.7	0.16	35	207	14	48	1	45	13	41
C-1179a-P-17	The Irvine Co., Plant 28, Well 428. S. of Tustin; 0.22 mile NW. of Redhill Ave., 0.23 mile NE. of A. T. & S. F. Ry. Near Well 1256. Use: Irrigation. Perforated 424-432; 470-478.	14577A	92	*500	(d)	1920			30	256	28	138	4	68	19	[c]48
C-1179d-O-17	P. H. Ebel. S. of Tustin; 45 feet SW. of Mitchell Ave., 660 feet SE. of Newport Blvd. Use: Irrigation.	14576	106	200	(d)	Oct. 1918			25	243	34	140	8	81	23	[c]46
C-1180a-P-17	Owner unknown. Test hole. S. of Santa Ana; 100 feet E. of Main St., 100 feet S. of Sunflower Ave., extended. Casing: None.	13330E	34	6	(f)	12/11/30				418	4,319	.....	....	....	.....	...
C-1191-O-16	City of Santa Ana, Well 9. Santa Ana; 300 feet E. of Olive St., 175 feet N. of 6th St. Use: Municipal. Casing: 16 inches. Perforated 910-938; 1024-1030; 1070-1090.	14525E	113	*x1,100	(e)	4/23/31	.....			195	15	[b]35				
C-1192-O-16	City of Santa Ana, Well 8. Santa Ana; 75 feet S. of 1st St., 25 feet E. of Flower St., 25 feet S. of C-1164a-O-16. Use: Municipal. Casing: 18 inches. Perforated 100-140.	14525D	104	*x151	(e) 306	4/23/31 9/17/31	..... 64.1	..... 0.10	 26	227 235	41 36	[b]55 74	 9	 72	 17	 40
C-1193b-O-17	C. James Klatt. NE. of Santa Ana; 250 feet N. of 17th St., 1,050 feet W. of Yorba St. Use: Irrigation. Casing: 12 inches.	14564B	172	x496	(d)	1920			13	226	46	122	12	83	31	[c]24
C-1193c-O-17	F. G. Fuller Ranch. E. of Santa Ana; 225 feet S. of 17th St., 900 feet W. of Prospect Ave. Use: Irrigation. Casing: 10 inches.	14574C	166	220	(d)	Nov. 1918			21	232	47	118	14	81	26	[c]38
C-1195a-O-18	Lemon Heights Water Co. E. of Tustin; 1,325 feet NE. of Irvine Blvd., 250 feet SE. of Newport Ave. Use: Abandoned and filled. New well drilled two feet from this well.	14594	163	...	(d)	Oct. 1918			26	201	30	147	14	67	21	[c]41
C-1205a-P-16	La Bolsa Tile Co. SW. of Santa Ana; 0.5 mile E. of Greenville Road, 0.5 mile N. of Delhi Road. Use: Irrigation. Casing: 12 inches.	14507	52	1,350	683	2/3/32	35.0	0.11	91	[a]167	13	26	0	6	2	82
C-1205b-P-16	A. E. Selvidge. SW. of Santa Ana; 840 feet E. of Greenville Road, 90 feet N. of Delhi Road. Use: Domestic. Casing: 4 inches.	14508	44	104	685	2/3/32	52.8	0.14	27	226	25	55	4	63	14	37
C-1206a-P-17	F. A. Stewart. S. of Santa Ana; 75 feet W. of McClay St., 0.25 mile S. of McFadden St. Use: Domestic and irrigation. Casing: 8 inches.	14547	92	x44	308	9/17/31	154	0.09	16	320	137	362	18	189	60	62
C-1207a-O-18	The Irvine Co., Plant 40, Well 1180. SE. of Tustin; 200 feet SE. of Browning Ave., 200 feet NE. of Bryant Ave. Use: Irrigation. Casing: 16 inches. Perforated 55-347.	14596A	97	*x418	(d) (g) (h)	1922 9/25/28 3/25/29	 94.5	 0.2	23 39	253 274 313	40 60 68	168 134 164		88 110	28 (i)	46 [c]81
C-1207b-O-18	F. B. Browning. E. of Tustin; 1,500 feet SE. of Red Hill Ave., 70 feet NE. of Irvine Blvd. Use: Irrigation. Casing: 12 inches. Perforated 200-600; 667-774.	14605	113	*810	270	9/3/31	110.1	0.12	27	238	160	127	13	113	32	69

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10 at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1207d-O-18	The Irvine Co., Plant 45, Well 1189. E. of Tustin; 1,000 feet NE. of Irvine Blvd., 35 feet SE. of Peters Canon Road, 1,285 feet NW. of Myford Road, extended. Use: Domestic. Casing: 9⅝ inches. Perforated 60-469.	14616	145	*469	(d)	1924			53	341	107	255		80	32	c170
					(d)	Sept. 1929			27	292	106	164		120	31	c71
C-1207e-O-18	The Irvine Co., Plant 46, Well 1194. SE. of Tustin; 2,500 feet SE. of Browning Ave., 2,500 feet NE. of Irvine Blvd. Use: Irrigation. Casing: 12 inches. Perforated 135-202.	14616A	62	*271	(d)	6/17/20			52	262	110	141	7	52	30	c124
					(d)	5/20/25			63	348	230	200		92	28	c275
					(g)	9/25/28	172	0.40	52	342	259	240		172	(i)	c214
					(g)	5/15/29	169	0.39	51	355	208	237		96	40	c195
					(g)	6/ 8/29	170	0.65	52	346	234	232		95	41	c206
					(g)	7/ 3/29	161	0.36	44	296	250	191		98	49	c161
					(d)	Sept. 1929			68	366	114	33		30	16	c138
C-1207g-O-18	The Irvine Co., Plant 70, Well 1233. E. of Tustin; 2,560 feet NE. of Irvine Blvd., 1,250 feet SE. of Peters Canon Road, 70 feet NW. of Myford Road, extended. Use: Irrigation. Casing: 12 inches. Perforated 200-215; 245-275.	14626	163	*x879	(d)	Aug. 1929			52	318	142	364		76	43	c186
C-1207h-O-18	The Irvine Co., Plant 71, Well 1234. E. of Tustin; 110 feet SW. of Irvine Blvd., 90 feet NW. of Peters Canon Road, 1,420 feet NW. of Myford Road. Use: Irrigation. Casing: 12 inches. Perforated 300-320; 331-930.	14616B	122	*x1,007	(d)	Aug. 1929			46	275	54	140		54	26	c95
C-1207k-O-18	F. B. Browning, Red Hill Groves Well 2. E. of Tustin; 1,350 feet SE. of Red Hill Ave., 200 feet NE. of Irvine Blvd. Use: Irrigation. Casing: 15 inches.	14605B	114		(d)	3/19/26			26	223	92	120		86	26	c53
					(d)	June 1927		Tr.	28	225	127	124		94	30	c65
					(g)	4/24/29	111	0.55	26	221	155	133		116	26	c64
C-1207L-O-18	Perry Lewis. E. of Tustin; 1,320 feet SE. of Red Hill Ave., 1,640 feet NE. of Irvine Blvd., 1,000 feet SW. of La Colina Drive. Use: Irrigation.	14605C	143	304	(d)	Oct. 1918			33	a204	39	86	5	52	22	c50
C-1207m-O-18	Holmes Loan and Realty Co. E. of Tustin; 1,310 feet NE. of Irvine Blvd., 1,000 feet SE. of Red Hill Ave. Use: Irrigation. Casing: 18 inches.	14605D	142	300	(d)	Nov. 1918			38	279	44	91	6	69	16	c60
					(d)	11/15/22			42	240	80	96	10	75	14	c80
C-1207n-O-18	Holmes Loan and Realty Co. E. of Tustin; 660 feet SE. of Red Hill Ave., 100 feet SW. of 17th St. Use: Irrigation. Casing: 12 inches.	14604	175	300	(d)	Oct. 1918			39	253	381	152	44	131	55	c166
					(d)	Nov. 1918			40	229	361	160	39	122	56	c167
C-1208b-P-18	The Irvine Co., Plant 50, Well 1199. SE. of Tustin; 0.27 mile SE. of Browning Ave., 0.23 mile NE. of State Highway. Use: Irrigation. Casing: 20 inches. Perforated 475-1070.	14597B	87	*x1,488	(d)	3/12/26			51	260	36	103		44	16	c85
					(d)	July 1926			40	256	35	53		40	15	c50
					(h)	3/25/29				285	100	192				
C-1208c-P-18	The Irvine Co., Plant 1, Well 554, Pit 22. SE. of Tustin; 0.22 mile SW. of Bryant Ave., 0.51 mile NW. of Myford Road. Use: Irrigation. Casing: 15 inches. Perforated 175-186.	14607	84	*x194	(d)	7/23/20			27	271	80	197	18	113	30	70
					(g)	9/25/28	134	0.2	30	299	110	264		188	(i)	94
					(h)	2/18/29				298	90	106				
					(h)	3/25/29				317	98	244				
C-1208g-P-18	The Irvine Co., Plant 32, Well 1154. SE. of Tustin; 250 feet SW. of Bryant Ave., 0.22 mile NW. of Myford Road. Use: Irrigation. Casing: 16 inches. Perforated 35-454.	14607D	89	*x470	(d)	Dec. 1920			47	398	117	289	28	128	17	c161
					(d)	June 1927		0.10	33	305	178	555		182	65	c160
					(g)	9/25/28	167	0.4	44	311	128	432		198	(i)	c179
					(h)	2/18/29				371	166	230				
					(h)	3/25/29				322	142	332				
C-1208i-P-18	The Irvine Co., Plant 73, Well 1236. SE. of Tustin; 200 feet SE. of Myford Road, 0.2 mile SW. of Irvine Road. Use: Irrigation. Casing: 15 inches. Perforated 324-915.	14617A	118	*x926	(d)	Aug. 1929			48	305	79	195		68	30	c125
C-1208j-P-18	The Irvine Co., Plant 26, Well 831. SE. of Tustin; 1,300 feet NW. of Myford Road, 100 feet SW. of State Highway 101, in Lot 40. Use: Abandoned and filled over. Casing: 15 inches. Perforated 56-64; 200-710.	14607E	76	*995	(d)	Dec. 1920			35	275	23	110	1	46	31	c69
C-1209a-P-18	The Irvine Co., Plant 14, Well 750. SE. of Tustin; 500 feet SW. of State Highway 101, 50 feet SE. of Browning Ave. Use: Irrigation. Casing: 24 inches.	14597D	88	*x250	(d)	1920			23	277	85	208	17	122	33	c69
					(h)	3/25/29				336	116	212				
C-1210c-P-18	The Irvine Co., Plant 31, Well 720. SE. of Tustin; 3,300 feet SE. of Browning Ave., 1,980 feet NE. of A. T. & S. F. Ry. Center of Lot 55. Use: Not used. Casing: 12 inches. Perforated 180-192; 300-1260.	14598B	63	*1,288	(d)	1920			56	183	28	155	0	39	16	c97
C-1210d-P-18	The Irvine Co., Plant 33, Well 1157. SE. of Tustin; 2,720 feet SE. of Browning Ave., 2,310 feet NE. of A. T. & S. F. Ry. Use: Irrigation. Casing: 16 inches. Perforated 30-306.	14598C	66	*330	(d)	1923				240	47	100		50		

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1210e-P-18	The Irvine Co., Plant 38, Well 1178. SE. of Santa Ana; 1.05 mile SE. of Browning Ave., 2,200 feet NE. of Delhi Road. Use: Irrigation. Casing: 16 inches. Perforated 35-335, where casing collapsed.	14589A	49	*x390	(d)	1923				262	142	100		50		
C-1210f-P-18	The Irvine Co., Plant 52, Well 1200. SE. of Tustin; 0.32 mile NW. of Myford Road, 0.52 mile SW. of State Highway. Use: Irrigation. Casing: 20 inches. Perforated 319-1200.	14598D	62	*x1,344	(d)	July 1926			61	235	29	98		28	15	c95
C-1210g-P-18	The Irvine Co., Plant 19, Well 691, Pit 2. S. of Tustin; 2,560 feet SE. of Browning Ave., 1,270 feet NE. of A. T. & S. F. Ry. Use: Irrigation. Casing: 15 inches. Perforated 0-86.	14588	66	*x86	(d)	1920			24	256	60	261	14	120	34	c63
					(b)	2/18/29				300	62	88				
					(b)	3/25/29				305	86	212				
C-1210h-P-18	The Irvine Co., Plant 29, Well 744, Pit 4. SE. of Tustin; 4,550 feet SE. of Browning Ave., 330 feet NE. of A. T. & S. F. Ry. Use: Irrigation.	14598E	59	*x31	(d)	1922			58	300	75	402	0	83	46	c250
					(b)	2/18/29				332	112	304				
					(b)	3/25/29				295	110	270				
C-1210i-P-17	The Irvine Co., Plant 30, Well 915. S. of Tustin; 30 feet SE. of Browning Ave., 100 feet SW. of A. T. & S. F. Ry., in N. corner of Lot 69. Use: Irrigation. Casing: 15 inches. Perforated 232-1060.	14588A	69	*x1,060	(d)	1920			63	213	19	96	0	30	9	c87
C-1210j-P-18	Frances Mutual Water Co., Well 10. SE. of Tustin; 4,380 feet SE. of Browning Ave., 1,940 feet SW. of State Highway 101. Use: Irrigation. Casing: 20 inches. Perforated 180-220. Analyses, Feb. 1919, were sampled from depths of 1,197, 1,099, and 1,179 feet, respectively.	14598F	68	*x1,526	(d)	Feb. 1919			60	308	87	142	0	51	22	c150
					(d)	Feb. 1919			60	330	80	144	2	55	19	c147
					(d)	Feb. 1919			59	335	81	139	0	55	20	c148
					(d)	Nov. 1930			19	320	117	380		180	50	c70
C-1210k-P-18	Frances Mutual Water Co. SE. of Tustin; Well 1, within 50 feet of Well 10 or C-1210j-P-18. Use: Abandoned and filled in when Well 10 was drilled.	14598G	68	100	(d)	Aug. 1918			34	259	67	172	4	82	25	c74
C-1210L-P-18	Frances Mutual Water Co., Well 2. SE. of Tustin; 2,485 feet SE. of Browning Ave., 1,925 feet SW. of State Highway 101, 70 feet S. of Well 12. Use: Not used since Well 12 (C-1210m-P-18) was drilled. Casing: 12 inches.	14598H	75	*100	(d)	Aug. 1918			41	275	24	46	2	53	17	c65
C-1210m-P-18	Frances Mutual Water Co., Well 12. SE. of Tustin; 2,430 feet SE. of Browning Ave., 1,880 feet SW. of State Highway 101, 70 feet N. of Well 2. Use: Irrigation. Casing: 20 inches. Perforated 115-265.	14598I	75	*x1,516	(d)	Nov. 1930			15	260	50	115		100	22	c28
C-1210n-P-18	The Irvine Co., Plant 27, Well 987. SE. of Tustin; 2,150 feet SE. of Browning Ave., 1,650 feet NE. of A. T. & S. F. Ry. Use: Not used. Casing: 15 inches. Perforated 36-92; 130-1060.	14598J	70	*1,084	(d)	1923				268	76	700				
					(b)	2/18/29				349	100	200				
					(b)	3/25/29				317	106	316				
C-1211c-P-18	The Irvine Co., Plant 41, Well 1183. N. of Irvine; 2,00 feet SW. of Trabuco Road, 0.47 mile NW. of Jeffrey Road. Use: Irrigation. Casing: 20 inches. Perforated 266-1570.	14639	157	*x1,603	(d)	1923				305	266	700		50		
					(f)	8/20/31				a202	256					
C-1211e-P-18	The Irvine Co., Plant 21, Well 1004. NW. of Irvine; 0.57 mile SW. of State Highway, 30 feet NW. of Culver Road. Use: Well abandoned and plant removed. Casing: 24 inches. Perforated 150-1245.	14619B	82	*1,290	(d)	1920			43	300	625	820	19	242	132	c390
C-1211f-P-18	Frances Mutual Water Co., Well 9. N. of Irvine; 850 feet SE. of Culver Road, 70 feet NE. of Bryant Ave. Use: Irrigation. Casing: 20 inches. Perforated 235-1235. Analyses on 3/30/20 were from depths of 800, 1,000, 1,200, 1,300 and 1,350 feet, respectively.	14628	140	*x1,397	(d)	3/30/20			61		81	150	0	41	27	c152
					(d)	3/30/20					72					
					(d)	3/30/20					66					
					(d)	3/30/20					78					
					(d)	3/30/20				360	81					
					(d)	Nov. 1930			30	330	96	105		102	26	c71
C-1211i-P-18	Frances Mutual Water Co., Well 13. SE. of Tustin; 2,475 feet SE. of Myford Road, 600 feet NE. of State Highway 101. Use: Irrigation. Casing: 20 inches.	14618	110	*x1,412	(d)	July 1925			63	323	48	157		40	20	c145
					(d)	Nov. 1930			26	330	64	110		100	22	c55
C-1211j-P-18	The Irvine Co., Plant 53, Well 1203. NW. of Irvine; 400 feet SE. of Culver Road, 100 feet NE. of Trabuco Road. Use: Irrigation. Casing: 20 inches. Perforated 285-1296.	14629	107	*1,485	(d)	Jan. 1919			52	372	54	142	0	54	30	c130
					(d)	1923				390	135	100		50		
					(d)	July 1926			43	348	280	565		134	97	c250
					(d)	Feb. 1927			57	360	130	315		84	33	c212
					(b)	2/18/29				437	156	210				
C-1211k-P-18	The Irvine Co., Plant 80, Well 1245. SE. of Tustin; 60 feet SE. of Myford Road, 135 feet SW. of State Highway. Use: Irrigation. Casing: 20 inches. Perforated 807-1300.	14608	77	*x1,553	(d)	5/20/30			17	305	60	172		124	25	c40

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1211o-P-18	Frances Mutual Water Co., Well 7. N. of Irvine; 2,000 feet NW. of Jeffrey Road, 50 feet SW. of Bryant Ave. Use: Abandoned and filled up.	14639B	192	.....	(d)	Jan. 1919	.....	.....	68	336	54	134	0	40	14	c156
C-1211n-P-18	Frances Mutual Water Co., Well 6. N. of Irvine; 3,900 feet NW. of Jeffrey Road, 50 feet SW. of Bryant Ave. Use: Abandoned.	14639A	175	*1,124	(d)	Nov. 1918			55	250	270	141	0	84	28	c182
C-1211p-P-18	W. L. West, E. T. McFadden and W. H. Walker. NW. of Irvine; 1,300 feet SE. of Culver Road, 660 feet SW. of State Highway 101. Use: Domestic. Casing: 12½ inches. Gravel 358-379; 397-402.	14629B	107	*402	(d)	Sept. 1929	.....	.....	50	332	232	140		100	30	c169
C-1211q-P-18	Frances Mutual Water Co., Well 5. SE. of Tustin; 200 feet NW. of Culver Road, 50 feet NE. of Bryant Ave. Use: Abandoned. Casing: 12½ inches.	14628A	130	*870	(d)	Aug. 1918	.....	.....	63	305	51	124	1	40	14	c124
					(d)	1924	.....	.....	56	326	43	138	.....	41	27	c120
C-1211r-P-18	The Irvine Co., Penman Well 1, Well 1271. SE. of Tustin; 3,300 feet NW. of Culver Road, 2,600 feet SW. of State Highway 101, 660 feet NW. and 40 feet NE. of S. corner of Lot 181. Use: Not Used: Casing 7⅝ inches. Perforated 172-220.	14608A	67	*236	(d)	6/27/32	.....	.....	78	587	415	1,080	.....	105	60	c850
					(d)	7/ 6/32	.....	.....	78	560	500	1,222	.....	128	54	c875
C-1212d-P-19	The Irvine Co., Plant 67, Well 1227. SE. of Tustin; 0.48 mile NE. of Irvine Blvd., 150 feet SE. of Culver Road. Use: Irrigation. Casing: 15 inches. Perforated 245-253; 288-296; 326-334; 356-900.	14637A	188	*x1,206	(d)	Nov. 1928	.....	.....	63	366	60	140	.....	40	22	c150
					(d)	Aug. 1929	.....	.....	62	342	68	156	.....	40	25	c155
C-1213b-P-19	The Irvine Co., Plant 65, Well 1225. NE. of Irvine; 0.48 mile NW. of Central Ave., 150 feet SW. of Irvine Blvd. Use: Irrigation. Casing: 12 inches. Perforated 195-215; 265-285; 510-530; 550-575; 700-755.	14659B	266	*x861	(h)	3/25/29	.....	.....	.....	342	322	304	.....	.....	.....	.....
					(g)	5/15/29	176	0.28	48	306	210	344	.....	95	57	c199
					(g)	6/ 8/29	236	0.87	44	312	328	179	.....	114	54	c183
					(g)	7/ 3/29	295	0.99	43	290	596	210	.....	143	88	c268
					(d)	Aug. 1929	.....	.....	56	314	226	470		104	50	c276
C-1213c-P-19	The Irvine Co., Plant 66, Well 1226. NE. of Irvine; 0.48 mile NE. of Irvine Blvd., 150 feet SE. of Jeffrey Road. Use: Irrigation. Casing: 12 inches. Perforated 258-270; 355-380; 450-500; 560-590; 660-700; 740-765.	14658	301	*x896	(d)	Aug. 1929	.....	.....	54	338	222	230	.....	80	44	c206
C-1216b-P-19	The Irvine Co., Plant 37, Well 1170. N. of Irvine; 0.48 mile NW. of Central Ave., 50 feet NE. of Trabuco Road. Use: Irrigation. Casing: 20 inches. Gravel 253-257; 277-282; 1215-1230; 1345-1375.	13440	219	*x1,660	(d)	7/25/22	.....	.....	61	305	184	418	0	110	30	c280
					(d)	7/10/23	.....	.....	54	323	161	164	0	83	23	c165
					(g)	9/25/28	178	0.3	36	329	174	456	.....	254	(i)	c163
					(h)	2/18/29	.....	.....	.....	383	164	296	.....	.....	.....	.....
					(h)	3/25/29	.....	.....	.....	329	160	150	.....		.....	
					(f)	8/20/31	.....	.....	.....	a223	157	.....	.....	.....	.....	.....
C-1216c-P-19	The Irvine Co., Plant 62, Well 1223. NE. of Irvine; 0.47 mile NW. of Central Ave., 200 feet SW. of Bryant Ave. Use: Irrigation. Casing: 20 inches. Perforated 310-850.	13450B	240	*x967	(d)	July 1928	.....	.....	39	335	217	375	.....	124	70	c175
					(h)	2/18/29	.....	.....	.....	390	238	430	.....	.....		
					(h)	3/25/29	.....		.....	356	244	365	.....	.....		
C-1216d-P-19	The Irvine Co., Plant 64, Well 1224. NE. of Irvine; 80 feet NW. of Central Ave., 0.48 mile NE. of Trabuco Road. Use: Irrigation. Casing: 12 inches. Perforated 365-400; 429-450; 475-540.	13450C	275	*x830	(d)	Sept. 1928			50	314	167	405	.....	122	37	c207
					(h)	3/25/29	.....		.....	329	160	308	.....	.....	.....	.....
C-1217a-Q-19	Southern California Edison Co., Ltd. NE. of Irvine; 150 feet NE. of Trabuco Road, 0.45 mile SE. of Central Ave. Use: Domestic and plant. Casing: 6 inches. Perforated 378-388.	13451	278	*x429	(f)	8/20/31	.....	.....	.....	a262	93	.....	.....			
C-1217e-Q-20	The Irvine Co., Plant 58, Well 1186. E. of Irvine; in N. corner, Lot 300, Block 174, 2½ miles NE. of State Highway 101, ½ mile NW. of SE. ranch line. Use: Irrigation. Casing: 9⅝ inches. Perforated below 160 feet.	13503	505	*535	(d)	Dec. 1923	.....	.....	28	292	59	90	.....	65	23	c46
					(d)	1/19/31	.....	.....	62	323	71	185	.....	54	18	c156
					(g)	Aug. 1931	90.5	0.18	45	311	57	133	Tr.	68	22	c98
					(d)	8/21/31			42	335	61	160	.....	80	25	c100
C-1217f-P-19	The Irvine Co., Well 298. E. of Irvine; 4,000 feet NE. of Irvine Blvd., 1,100 feet SE. of Lambert Road, extended. Use: Irrigation. Casing: 15 inches. Perforated 60-220.	13480	440	*232	(d)	Feb. 1920	.....	.....	45	317	135	512	4	109	66	c207
					(d)	1/24/22	.....	.....	42	323	138	500	0	115	68	c190
C-1217n-Q-19	The Irvine Co., Plant 55, Well 1210. NE. of Irvine; 0.47 mile SW. of Trabuco Road, 150 feet NW. of Lambert Road. Use: Irrigation. Casing: 12 inches. Gravel 295-298; 444-463.	13452B	276	*x746	(d)	May 1927	.....	.....	31	295	67	158	.....	77	40	c75
					(d)	Sept. 1927			33	283	67	165	.....	80	32	c76
					(g)	9/25/28	92	0.2	53	299	67	125	.....	88	(i)	c115
					(h)	2/18/29	.....	.....	.....	346	78	162	.....	.....	.....	.....
					(h)	3/25/29	.....	.....	.....	161	76	225	.....		.....	.....
C-1217o-Q-19	The Irvine Co., Plant 56, Well 1211. S. of Irvine; 0.82 mile SW. of State Highway, 1,540 feet SE. of Laguna Ave. Use: Irrigation. Casing: 15 inches.	13452C	177	*898	(d)	June 1927	.....	.....	36	292	65	240	.....	90	35	c97

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / (Ca + Mg + Na)	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1217p-Q-19	The Irvine Co., Plant 57, Well 1214. E. of Irvine; 0.47 mile SW. of Trabuco Road, 0.53 mile SE. of Lambert Road. Use: Irrigation. Casing: 12 inches. Perforated 180-426.	13463	294	*x527	(d)	Oct. 1927				262	94	176				
					(d)	12/ 9/27			62	274	88	172		86	19	c109
					(d)	July 1928			42	274	65	166		80	21	c95
					(g)	9/25/28	97 2	0 2	50	287	78	154		100	(i)	c117
					(h)	3/25/29				302	86	196				
					(d)	Aug. 1932			42	335	61	169		80	25	c107
C-1217q-Q-19	The Irvine Co., Plant 61, Well 1222. E. of Irvine; 0.4 mile SE. of Central Ave., 0.12 mile SW. of Trabuco Road. Use: Irrigation. Casing: 12 inches. Perforated 240-695.	13451B	285	*x762	(d)	July 1928			45	262	92	252		80	32	c125
C-1217s-Q-19	The Irvine Co., Plant 60, Well 1221. SE. of Irvine; 0.22 mile SE. of Lambert Road, extended, 100 feet SW. of A. T. & S. F. Ry. Use: Irrigation. Casing: 12 inches. Perforated 230-474.	13453	245	*x649	(d)	July 1928			55	262	170	224		84	25	c180
					(h)	3 25/29				268	162	170				
C-1218-R-20	McGuire Ranch. El Toro; 1,800 feet NW. of Aliso Canyon Road, 1,200 feet SW. of A. T. & S. F. Ry. Use: Irrigation. Casing: 12 inches.	13507	400	460	(d)	5/ 8/23			85	143	355	519		52	9	c450
					(d)	Mar. 1925			65	130	355	504		116	25	c330
C-1218a-R-20	W. A. Cornelius. El Toro; 2,000 feet SW. of A. T. & S. F. Ry., 500 feet SE. of Aliso Canyon Road. Use: Irrigation.	13507A	398		(d)	1922				200	30	75				
C-1218b-R-20	R. H. Prothero. El Toro; 3,900 feet SE. of Aliso Canyon Road, 2,200 feet SW. of A. T. & S. F. Ry. Use: Not used. Casing: Dug well with concrete pit.	13518	380	42	(d)	5/ 8/22			50	332	145	553		160	25	c230
C-1218c-R-20	R. H. Prothero. S. of El Toro; 4,100 feet SE. of Aliso Canyon Road, 2,500 feet SW. of A. T. & S. F. Ry., 350 feet S. of C-1218b-R-20. Use: Irrigation. Casing: 12 inches. Gravel 36-52. Shale 601-1000.	13518A		*1,000	(d)	Sept. 1930			69	268	238	400		80	24	c310
C-1218d-R-20	G. H. Scott. El Toro; 5,800 feet SE. of Aliso Canyon Road, 1,000 feet W. of A. T. & S. F. Ry. Use: Irrigation. Casing: 12 inches.	13518B		110	(d)	Dec. 1929			44	317	177	403		170	35	c205
C-1219-Q-20	The Whiting Co., Well 1. NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, thence 0.17 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 950, 10 feet E. of road, in Block 15, Tract 910. Use: Irrigation.	13535			(j)	1929			20	202	48	92		67	23	c31
C-1219a-Q-20	The Whiting Co., Well 2. NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, thence 0.16 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 950, 10 feet E. of road, in Block 15, Tract 910. Use: Irrigation.	13535A			(j)	1929			26	194	60	170		73	32	c50
C-1219b-Q-20	The Whiting Co., Well A. NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, thence 0.80 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 950, thence 200 feet E. in Block 10, Tract 950. Use: Irrigation.	13534			(j)	1929			50	226	120	1,052		211	49	c332
C-1219c-Q-20	The Whiting Co., Well B. NE. of El Toro; 0.75 mile NE. along Aliso Canyon Road from Trabuco Road, thence 1.22 mile along road running N. and NE. through Whiting Tracts Nos. 910 and 950, thence SE. 200 feet, in Block 6, Tract 950. Use: Irrigation.	13534A			(j)	1929			34	170	78	292		93	33	c85
C-1219d-Q-20	Mr. Osterman. N. of El Toro; 2,200 feet N. and 600 feet E. of SW. corner, Sec. 12, T. 6 S., R. 8 W., S. B. B. & M. Use: Domestic. Casing: 4′ x 4′ dug well.	13523		35	(d)	1922			30	308	54	92		76	27	c58
					(d)	3/18/25			69	97	923	670		176	50	c666
C-1219g-Q-20	Prospect Ranch, Jerome-Browning Well. NE. of El Toro; 2,200 feet E. and 2,400 feet S. of NW. corner, Sec. 12, T. 6 S., R. 8 W., S. B. B. & M. Use: Irrigation. Casing: 15 inches. Perforated 125-804.	13533		*804	(d)	Sept. 1929			28	244	64	100		90	15	50
C-1220d-Q-19	The Irvine Co., Plant 68, Well 1230. S. of Irvine; 0.48 mile SE. of Laguna Ave., 100 feet SW. of Valencia Ave., extended. Use: Irrigation. Casing: 12 inches. Perforated 210-220; 274-403.	13443A	203	*x894	(d)	Aug. 1929			48	223	154	196		84	26	c132
C-1220h-Q-19	The Irvine Co., Well 1146. S. of Irvine; 75 feet SE. of State Highway 101, 60 feet NW. of Laguna Blvd. Use: Not used. Casing: 15 inches.	13443B	205	*535	(d)	1922			38	260	117	178		87	32	c100
C-1220p-Q-19	The Irvine Co., Plant 59, Well 1217. SE. of Irvine; 1.03 miles SE. of Laguna Ave., 100 feet SW. of Valencia Ave., 400 feet SW. of State Highway. Use: Irrigation. Casing: 12 inches. Perforated 200-420.	13454C	220	*x918	(d)	1/ 3/28			59	244	174	295		90	20	c200
					(d)	July 1928			54	244	168	280		90	26	184
					(h)	2/18/29				278	176	258				
					(h)	3/25/29				246	172	296				

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1220t-Q-19	The Irvine Co., Plant 47, Well 1193. Irvine; 0.25 mile SE. of Central Ave., 100 feet NE. of Valencia Ave. Use: Irrigation.	13433B	187	x	(d)	3/18/25			52	244	156	188		80	24	c150
					(d)	5/20/25			48	300	188	293		100	30	c160
					(g)	9/25/28	122	0.2	54	244	163	173		113	(c)	c151
					(h)	2/18/29				281	150	172				
					(h)	3/25/29				256	160	148				
C-1222b-Q-18	The Irvine Co., Well 1114. W. of Irvine; 0.51 mile SE. of Jeffrey Road, 510 feet SW. of Valencia Ave. Use: Abandoned. Casing: 12 inches. Perforated 418-454.	13422B	138	*x506	(f)	4/14/31				a301	35					
					(f)	6/22/31				a258	139					
					(f)	6/25/31				a265	139					
					(f)	7/29/31				a199	146					
					(f)	8/20/31				a255	150					
C-1222c-P-18	Robert Jeffrey. SE. of Tustin; 3,900 feet SE. of Culver Road, 2,600 feet NE. of A. T. & S. F. Ry., near center of NE. line of Lot 185. Use: Irrigation. Casing: 15 inches. Perforated 300-969.	13420	136	*969	(f)	4/1/31				a330	175					
					(f)	6/22/31				a226	125					
					(f)	6/25/31				a259	125					
					(f)	7/29/31				a161	185					
					(f)	8/20/31				a224	122					
C-1222d-P-18	Wm. Jeffrey. NW. of Irvine; 50 feet NW. of Jeffrey Road, 50 feet SW. of State Highway. Use: Irrigation. Casing: 15½ inches. Perforated 30-1240.	13431	156	*1,240	(f)	4/14/31				a207	143					
					(f)	8/20/31				a229	145					
C-1222e-Q-18	The Irvine Co., Plant 39, Well 1179. W. of Irvine; 2,550 feet NW. of Jeffrey Road, 75 feet SW. of Valencia Ave. Use: Irrigation. Casing: 20 inches. Gravel-packed well.	13411	101	*x1,586	(d)	1922			48	273	124	150	0	79	21	c120
					(g)	9/25/28	113	0.1	32	262	110	216		160	(c)	c90
					(h)	2/18/29				397	146	192				
					(h)	3/25/29				266	116	144				
C-1222j-Q-18	The Irvine Co., Plant 35, Well 1161. W. of Irvine; 2,000 feet SE. of Jeffrey Road, 150 feet NE. of Valencia Road. Use: Irrigation. Casing: 20 inches. Perforated 263-1503.	13422C	142	*x1,503	(d)	1921			44	250	112	127	0	67	26	c101
					(g)	9/25/28	104	0.20	39	256	121	125		116	(c)	c101
					(h)	2/18/29				283	148	168				
					(h)	3/25/29				269	116	146				
					(f)	4/14/31				a279	39					
					(f)	6/22/31				a242	121					
					(f)	6/25/31				a246	121					
					(f)	7/29/31				a258	128					
					(f)	8/20/31				a265	89					
C-1222k-P-18	The Irvine Co., Plant 48, Well 1177. NW. of Irvine; 3,900 feet SE. of Culver Road, 140 feet SW. of A. T. & S. F. Ry. Use: Irrigation. Casing: 16 inches. Perforated 60-520.	13421A	99	*540	(d)	Sept. 1925			43	336	250	722		158	94	c275
					(h)	2/18/29				344	406	408				
					(h)	3/25/29				295	616	268				
C-1222n-P-18	The Irvine Co., Plant 79, Well 1244. NW. of Irvine; 0.73 mile SE. of Culver Road, 0.48 mile NE. of Valencia Blvd. Use: Irrigation.	13401B	99	x	(d)	4/18/30			68	244	125	350		70	23	c260
C-1222o-Q-18	A. J. McFadden. W. of Irvine; 75 feet NW. of Jeffrey Road, 70 feet NE. of Valencia Ave. Use: Not used, capped below ground. New well 200 feet deep, 12 feet SE. and 30 feet SW. of this well.	13421B	125	600	(d)	Dec. 1918			39	235	128	161	0	93	26	c98
C-1222p-Q-18	C. B. Cubbins. NW. of Irvine; 0.51 mile NW. of Jeffrey Road, 1,000 feet NW. of Valencia Ave. Use: Irrigation.	13411A	104	78	(d)	Dec. 1918			31	280	87	198	0	106	33	c83
C-1222q-Q-18	C. B. Cubbins. NW. of Irvine; 0.51 mile NE. of Jeffrey Road, 900 feet NE. of Valencia Ave. Use: Irrigation.	13411B	102	114	(d)	Dec. 1918			35	293	183	345	28	138	55	c142
C-1222r-Q-19	The Irvine Co., Plant 17, Well 1113. Irvine; 180 feet SW. of State Highway 101, 520 feet SE. of Central Ave. Use: Irrigation. Casing: 15 inches. Perforated 255-690.	13442A	200	*720	(h)	2/18/29				310	106	180				
					(h)	3/25/29				302	116	94				
					(d)	10/20/31			51	262	128	320		88	32	c173
C-1223-Q-18	The Irvine Co., Plant 9, Well 707. W. of Irvine; 1,200 feet NE. of Harkle Road, 55 feet SE. of Jeffrey Road. Use: Not used. Casing: 15 inches. Perforated 255-299.	13412	116	*x301	(d)	Jan. 1919			64	223	159	66	0	49	12	c142
					(d)	1921			58	214	152	66	0	56	17	c136
C-1224-Q-18	The Irvine Co., Plant 13. W. of Irvine; 0.65 mile SE. of Culver Road, 150 feet SW. of Harkle Road. Use: Domestic. Casing: 15 inches.	13402	96	x310	(d)	1920			70	235	214	42	2	44	12	c173
					(g)	8/21/28	160	0.1	45	244	257	172		163	(c)	c153
					(f)	8/20/31				a265	224					
C-1224b-Q-18	The Irvine Co., Well 1238. W. of Irvine; 2,700 feet NW. of Jeffrey Road, 2,730 feet NE. of Harkle Road. In S. corner of Lot 193. Use: Not used. Casing: 8 inches. Perforated 200-318.	13402A	100	*951	(d)	10/2/29			26	244	62	123		64	35	c50
C-1224c-P-18	The Irvine Co., Plant 82, Well 1246. SE. of Tustin; 90 feet NW. of Culver Road, 90 feet NE. of Valencia Ave. Use: Irrigation. Casing: 20 inches. Perforated 410-1000.	13400	67	*1,145	(d)	7/3/30			20	225	105	82		70	30	c35

TABLE 20. WELLS IN SANTA ANA IRVINE AREA Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1224e-Q-18	The Irvine Co., Plant 76, Well 1239. W. of Irvine; 0.49 mile SE. of Culver Road, 0.25 mile SW. of Valencia Blvd. Use: Irrigation. Casing: 20 inches. Perforated 395-795.	13401A	83	*x1,120	(d)	Oct. 1929	- -		49	200	146	50		50	22	c95
C-1224f-Q-18	The Irvine Co., Plant 11, Well 939. W. of Irvine; 2,665 feet SE. of Culver Road, 1,370 feet NE. of Harkle Road, at center of NW. line of Lot 200. Use: Irrigation. Casing: 15 inches. Perforated 300-385.	13402B	87	*x388	(d)	1920			57	238	198	120	0	72	19	c156
					(g)	9/25/28	97.2	0.50	57	281	106	115		84	(e)	c133
					(h)	2/18/29				344	100	58				
					(h)	3/25/29				317	108	176				
					(g)	5/15/29	141	0.66	45	222	316	22		4	6	c283
					(g)	6/ 8/29	137	0.40	72	222	305	23		51	12	c211
					(g)	7/ 3/29	122	0.50	66	238	243	67		57	15	c186
C-1225c-Q-17	The Irvine Co., Plant 10, Well 471. SE. of Santa Ana; 1,200 feet SE. of intersection of Lane Road and Culver Road, 1,200 feet SE. and 400 feet SW. of N. corner of Lot 210. Use: Domestic, only, formerly irrigation. Casing: 12 inches. Perforated 306-322; 394-402.	13383A	71	*408	(d)	7/23/20			90	247	191	5	0	9	6	c200
					(g)	8/21/28	102	1.00	95	244	188	6		9	(e)	c207
					(h)	2/18/29				300	176	58				
					(h)	3/25/29				249	192	14				
					(g)	5/15/29	98.9	1.02		227	189	3		8		c201
					(g)	6/ 8/29	96.5	0.96	96	222	188	13		8	0	c203
					(g)	7/29/29	95.7	1.00	94	232	190	11		8	2	c203
					838	3/23/32	113	0.59	59	324	180	55	1	61	21	162
C-1225f-Q-18	The Irvine Co., Plant 12. W. of Irvine; 3,300 feet SW. of Harkle Road, 3,200 feet SE. of Culver Road. Use: Not used. Casing: 12 inches.	13393	90		(d)	1920			42	214	165	100	17	82	23	c100
C-1227b-Q-18	The Irvine Co., Plant 75, Well 1241. S. of Tustin; 0.25 mile SW. of Delhi Road, 300 feet NW. of Culver Road. Use: Irrigation. Casing: 20 inches. Perforated 400-420; 500-820.	13391	73	*x868	(d)	3/11/30	-		45	252	174	140		77	40	c133
C-1227e-P-18	The Irvine Co., Plant 78, Well 1243. S. of Tustin; 100 feet NE. of Delhi Road, 250 feet NW. of Culver Road. Use: Irrigation. Casing: 20 inches. Perforated 410-690.	13391A	69	*x1,103	(d)	3/11/30	- -		47	242	178	72		60	31	c115
C-1227d-P-18	The Irvine Co., Well 1247. S. of Tustin; 3,700 feet NW. of Culver Road, 60 feet NE. of Delhi Road. Use: Not used. Casing: 20 inches. Perforated 407-1012 originally; then reperforated 410-485; 525-545; 620-640; 705-745; 810-830; 970-990.	13380	52	*1,166	(d)	8/15/30			31	244	78	50		60	23	c50
C-1227h-Q-17	The Irvine Co., Plant 25, Well 1042. S. of Santa Ana; 0.51 mile NW. of Culver Road, 1.27 miles SW. of Delhi Road. Use: Irrigation. Casing: 12 inches. Gravel-sand 240-260; 588-595; 598-740.	13372	48	*x808	(d)	1920			95	a248	180	14	0	5	3	c204
					(d)	2/23/28		0.68	88	238	176	31		12	7	c190
					(g)	8/21/28	96.5	1.00	98	244	164	24		3	(e)	c207
					(h)	2/18/29	---			290	172	160				
					(h)	3/25/29				a300	186	26				
					(g)	5/17/29	139	0.78	61	223	167	7		45	13	c119
					(g)	6/ 8/29	88.6	0.67	98	212	163	27		2	1	c195
					(g)	7/ 3/29	88.1	0.80	96	204	167	10		5	1	c181
					839	3/23/32	89.1	0.82	96	a234	176	0	0	3	2	195
C-1227m-P-18	The Irvine Co., Plant 22, Well 1057. S. of Tustin; 1,320 feet SW. of Valencia Ave., 60 feet NW. of Culver Road. Use: Domestic and stock. Casing: 15 inches. Perforated 30-900; 990-1010.	13390	68	*1,026	(d)	1920	- --	-	70	220	159	54	0	38	10	c147
					(h)	2/18/29	---	-		217	36	26				
C-1228c-P-17	W. Pollard, Well 2. S. of Tustin; 2,200 feet SE. of Newport Blvd., 0.85 mile NE. of Lane Road. Use: Irrigation.	13340A	40	*592	(d)	4/26/32	-----		64	366	460	715		140	65	c500
C-1228g-P-17	The Irvine Co., Well 1253. S. of Santa Ana; 1,320 feet SE. of Newport Blvd., 95 feet NE. of Lane Road. Use: Not used. Casing: 20 inches. Analysis on 5/28/31 from bottom stratum. June 27, 1931, 12-inch casing collapsed at 550 feet (20-inch casing from 0 to 408.5 feet), leaving 750 feet of 4-inch cleaning line and 2 joints of 2-inch air line in well.	13330C	34	*1,430	(d)	5/28/31	--	-----	40	153	53	106		38	22	c58
C-1230b-P-17	Holly Sugar Co., Well 1. S. of Santa Ana; 960 feet N. of Dyer Road, 545 feet W. of S. P. R. R., in NW. corner of Holly Sugar Co.'s Dyer St. plant. Use: Industrial. Casing: 12 inches. Open bottom and not perforated.	14548E	55	*1,010	262	8/27/31	34.6	-- -	83	a131	13	42	0	3	6	75
C-1231g-P-17	The Irvine Co., Plant 44, Well 935. S. of Tustin; 1,270 feet NE. of Delhi Road, 45 feet SE. of Browning Ave., in N. corner of Lot 92. Use: Irrigation. Casing: 15 inches. Perforated 390-410; 494-504; 560-565; 720-740; 750-792; 800-810; 825-835; 850-870; 950-1326. Analysis in May, 1932, having per cent Sodium of 39, was taken after some of lower strata was shut off.	14579A	57	*1,346	(d)	1923	- -	-	93	256	1,085	152		41	7	c806
					(h)	2/18/29		- --	-	256	94	26				
					(g)	5/15/29	65.5	0.38	97	194	92	18		3	(e)	c138
					(g)	6/ 8/29	63.4	0.38	99	189	90	14		1	0	c135
					(g)	7/ 3/29	62.6	0.47	96	180	94	17		4	0	c132
					(d)	3/14/32			100	a195	83	50		0	0	c150
					(d)	May 1932			100	a198	84	Tr.		0	Tr.	c118
					(d)	May 1932	-		39	220	102	50		30	20	c46

TABLE 20. WELLS IN SANTA ANA-IRVINE AREA—Continued

Well number	Location and description	Location number	Elevation of ground	Total depth of well in feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
C-1232e-P-17	The Irvine Co., Plant 4, Well 190. S. of Tustin; 1,270 feet NE. of Delhi Road, 50 feet SE. of Red Hill Ave. in N. corner of Lot 94. Use: Not used. Casing: 15 inches. Perforated 30-35; 156-189.	14568C	67	*199	(d)	7/23/20	...		40	296	34	136	5	39	40	c80
C-1233-P-17	The Irvine Co., Plant 5, Well 1251. S. of Tustin; 30 feet SW. of Delhi Road, 50 feet SE. of Newport Blvd. Use: Not used.	14558	66	x ...	(d) (d)	7/23/20 2/9/31	...	... ...	18 18	232 a222	35 35	150 60	8	62 62	28 22	c38 c24
C-1233a-P-17	The Irvine Co., Plant 81, Well 1251. S. of Tustin; 200 feet SW. of Delhi Road, 0.24 mile NW. of Red Hill Ave. Use: Irrigation. Casing: 20 inches. Gravel-packed well.	14558A	63	*x1,186	(d)	Feb. 1931	...	...	18	a222	35	60	...	62	22	c24
C-1234a-P-17	Fitzpatrick Bros. and E. Cubbons. S. of Santa Ana; 1,384 feet N. of Delhi Road, 154 feet W. of McClay St. Use: Irrigation. Casing: 15½ inches. Water from stratum at 400 feet, shell beds below 515 feet.	14548C	70	715	(d) 307 927	June 1925 9/17/31 5/4/32	... 76.1 75.9	... 0.08 0.12	27 26 25	252 232 229	36 34 39	122 156 148	... 6 4	74 83 85	23 23 25	48 48 48
C-1236b-P-17	Holly Sugar Co., Well 4. S. of Santa Ana; 75 feet S. of Dyer Road, 150 feet W. of Dyer Road intersection with Newport Blvd., 50 feet E. of Well 3. Use: Industrial. Perforated 450-842.	14549B	50	*845	261	8/27/31	46.6		40	198	16	58	0	41	12	47
C-1236c-P-17	The Irvine Co., Plant 51, Well 1185. S. of Santa Ana; 3,900 feet NE. of Lane Road, 60 feet SE. of Newport Ave. Use: Irrigation. Casing: 18 inches. Perforated 220-320; 380-740.	14549C	42	*775	(d) (d)	1923 July 1926	... ...	... ...	42 47	160 203	21 17	42 50	0 ...	30 25	11 15	c40 c50
C-1243a-Q-16	The Irvine Co., Plant 16, Well 1038. S. of Santa Ana; 1,350 feet SE. of Newport Blvd., 0.68 mile NE. of Palisades Road. Use: Irrigation. Casing: 12 inches. Perforated 420-570.	13322A	45	*952	(d)	1920	...	...	92	a405	23	22	0	5	5	c165
C-1243e-Q-16	Santa Ana Heights Water Co. S. of Santa Ana; 550 feet SE. of Newport Blvd., 120 feet SW. of Palisades Road. N. of Santa Ana Country Club. Use: Municipal. Casing: 16 inches.	13312B	33	x720	60 (f)	6/16/31 4/12/32	101.3 ...	... ...	94 ...	a256 ...	195 178	1 ...	0 ...	4 ...	5 ...	218
C-1244a-Q-16	Newport Heights Irrigation District. S. of Santa Ana; 100 feet NE. of Palisades Road, 550 feet NW. of Santa Ana Ave., extended. W. of reservoir. Use: Irrigation.	13313	48	x609	61	6/16/31	64.8	...	90	a226	92	3	0	6	5	146
C-1244d-Q-16	The Irvine Co., Plant 15, Well 715. S. of Santa Ana; 150 feet S. of Palisades Road, 135 feet W. of Santa Ana Ave. Near Well 283. Use: Occasional irrigation.	13313C	45	...	(d) (d)	1920 July 1932	... ...	... ...	92 84	a358 a268	143 110	14 41	0 ...	7 Tr.	6 17	c218 c162
C-1244i-Q-16	The Irvine Co., Plant 7. S. of Santa Ana; 375 feet NE. of Palisades Road, 1,650 feet SE. of Santa Ana Ave. Use: Abandoned and filled in 1932.	13323	25	...	(d) (d)	1920 4/27/22	... ...	... ...	77 43	232 256	50 138	25 165	0 3	17 80	6 25	c102 c104
C-1245b-Q-16	Whittier Ranch. SW. of Santa Ana; 200 feet N. of N. line of Banning Tract, 200 feet E. of Old Santa Ana Road, 1,500 feet S. of Adams Ave. Use: Domestic and irrigation.	13293	63	...	654	1/26/32	37.3	0.18	72	192	14	20	0	17	5	73
C-1254-P-15	Owner unknown. SW. of Santa Ana; 300 feet E. of E. levee of Santa Ana River, 50 feet S. of Talbert Road. In old pump house. Use: Irrigation. Casing: 7 inches.	14479	35	x ...	(f)	11/17/31		...		a114	20			...	...	...

* Log in files of Division of Water Resources.
x Water levels in files of Division of Water Resources.
a Includes small equivalent quantity of Carbonate (CO_3).
b Sulphate (SO_4) determined by turbidity method.
c Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
d Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
e Analysis by California State Department of Public Health, Bureau of Sanitary Engineering.
f Analysis by Orange County Flood Control District, Santa Ana, California.
g Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
h Analysis by Charles Dickens, Oakland, California.
i Calcium and Magnesium determined together and calculated to equivalent quantity of Calcium.
j Analysis obtained from The Whiting Co., Los Angeles. Calcium and Magnesium determined together and calculated to equivalent quantity of Calcium by Division of Water Resources.

TABLE 21. SURFACE AND SUBSOIL WATERS IN SANTA ANA-IRVINE AREA

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
	SURFACE WATERS															
S15718-M-18	Santiago Creek. NE. of Villa Park. Sampled from Serrano Water Co. and John T. Carpenter Water Co. division box, 0.5 mile above mouth of canyon, in SW. ¼ of Sec. 13, T. 4 S., R. 9 W. Canal diverts from creek 0.12 mile upstream. Discharge given is combined discharge of Santiago Creek and Serrano and Carpenter Canal from U. S. G. S. unpublished records. Use: Irrigation.	S15718	425	----	(c)	Oct. 1918	----	----	26	[a]292	28	213	1	86	38	[b]61
				----	(c)	June 1927	----	0.26	26	295	32	203	----	106	26	[b]60
				3	758	2/22/32	93.4	0.16	17	314	30	229	2	107	44	43
				4	820	3/17/32	91.5	0.12	----	296	34	----	----	----	----	----
				6	922	4/20/32	61.1	0.15	17	[a]220	14	129	1	76	24	27
				----	997	5/21/32	73.3	0.10	16	[a]256	20	163	Tr.	91	30	30
				----	1059	6/18/32	64.7	0.05	----	[a]241	0	----	----	----	----	----
	SUBSOIL WATERS															
S13260a-P-15	Newport Drainage District, tile drain outlet. SW. of Santa Ana; 1 mile W. of Fairview Ave., 0.35 mile N. of Gisler St. at NW. corner of Pomeroy Ranch.	S13260A	60	----	632	1/19/32	347	0.46	57	327	250	1,323	18	181	105	542
				----	693	2/ 3/32	259	0.33	54	284	167	957	10	154	82	385
S13262-Q-15	Newport Drainage District, open drainage ditch. SW. of Santa Ana. Sampled at O. C. F. C. D. drainage gaging station 10,500 feet N. of Adams Ave., 5,600 feet W. of Fairview Ave. Tile drainage comes in about 1.25 miles up drain.	S13262	60	----	(d)	6/ 1/32	----	----	----	----	264	----	----	----	----	----
S13281-P-15	Newport Drainage District, tile drain manhole. SW. of Santa Ana; 25 feet W. of Fairview Ave., 1,000 feet N. of Gisler St.	S13281	29	----	692	2/ 3/32	259	0.41	----	290	170	----	----	----	----	----
S13291-P-16	Newport Drainage District, tile drain manhole. SW. of Santa Ana; 0.5 mile S. of Huntzinger Road, 15 feet E. of Old Santa Ana Road.	S13291	30	----	691	2/ 3/32	232	0.43	----	305	110	----	----	----	----	----
S13300-P-16	Newport Drainage District, tile drain. S. of Santa Ana; 1,000 feet E. of Greenville Road, 15 feet N. of Wakeham Ave.	S13300	33	----	688	2/ 3/32	248	0.46	----	296	98	----	----	----	----	----
S13301-Q-16	Newport Drainage District, tile drain manhole. S. of Santa Ana; 25 feet E. of Bear Road, 0.25 mile N. of Paulerino Ave.	S13301	30	----	682	2/ 3/32	61.3	0.20	----	207	52	----	----	----	----	----
S13313-Q-16	Delhi Drainage District, open drainage ditch. S. of Santa Ana. Sampled at O. C. F. C. D. drainage gaging station 8,300 feet SW. of Palisades Road, 1,400 feet SE. of Newport Ave.	S13313	20	-	(d)	4/ 1/31	----	----	----	[a]347	306	----	----	----	----	----
					(d)	6/ 1/32	----	----	----	----	1,302	----	----	----	----	----
S13314-Q-16	Delhi Drainage District, open drainage ditch. N. of Newport. Sampled at outfall 2,800 feet SE. of Santa Ana Ave., 3,800 feet SW. of Palisades Road at The Irvine Co. weir.	S13314	5	-	(c)	June 1930	----	----	73	427	425	1,976	----	193	75	[b]1,000
S13352-Q-17	The Irvine Co., open drainage ditch. SE. of Santa Ana. Sampled on N. line of Lane Road, 6,300 feet NW. of Culver Road.	S13352	36	----	(d)	4/ 1/31	----	----	----	[a]343	1,006	----	----	----	----	----
S13362-Q-17	The Irvine Co., open drainage ditch. SE. of Santa Ana. Sampled at O. C. F. C. D. drainage gaging station 6 on N. line of Lane Road, 1.05 miles NW. of Culver Road.	S13362	35	----	(d)	4/ 1/31	----	----	----	[a]324	642	----	----	----	----	----
					(d)	6/ 1/32	----	----	----	----	481	----	----	----	----	----
S14498-P-16	Newport Drainage District, tile drain manhole. SW. of Santa Ana; 900 feet W. of Greenville Road, 0.6 mile N. of Talbert Road.	S14498	42	----	690	2/ 3/32	199	0.32	----	332	130	----	----	----	----	----
S14508-P-16	Newport Drainage District, tile drain manhole. SW. of Santa Ana; 15 feet N. of Delhi Road, 1,200 feet E. of Greenville Road.	S14508	44	----	684	2/ 3/32	148	0.45	----	253	41	----	----	----	----	----
S14509-P-16	Newport Drainage District, tile drain manhole. SW. of Santa Ana; 1,200 feet E. of Greenville Road, 2,000 feet S. of Delhi Road.	S14509	40	----	687	2/ 3/32	248	0.48	----	293	98	----	----	----	----	----

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[d] Analysis by Orange County Flood Control District, Santa Ana, California.

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S5628-D-20	San Antonio Creek. NW. of Upland. Sampled from tailrace of Southern California Edison Co., Ltd., power house, 4 miles above mouth of canyon. Discharge given is combined discharge of San Antonio Creek and Southern California Edison Co.'s canal, from W. S. P. No. 721 and U. S. G. S. unpublished records.	S5628	3,250	11.9	104	7/ 3/31	28.4	..	13	159	0	14	1	45	9	10
				9.7	216	8/12/31	28.5		9	[a]168	0	14	1	46	12	7
				8.2	282	9/10/31	31.6	Tr.	4	[a]165	0	14	Tr.	45	10	3
				7.6	446	10/16/31	28.6	Tr.		168	2					
				7.4	494	11/ 9/31	28.8	0.04		168	0					
				8.4	589	12/14/31	29.3	Tr.	8	168	0	8	1	44	10	7
				13.6	622	1/14/32	28.5	0.04		168	2					
				64	753	2/16/32	27.9	Tr.		168	0					
				61	835	3/17/32	27.7	0.05		168	2					
				60	905	4/15/32	26.3	0.08	7	156	0	10	1	43	7	5
				44	987	5/10/32	24.0	0.05		[a]137	0					
				33	1047	6/17/32	25.3	0.02		[a]143						
				22	1165	7/15/32	26.6	0.07		[a]149	0					
				16.6	1280	8/15/32	27.2	0.07		[a]156	0					
				12.1	1393	9/19/32	27.6	0.02	9	156	0	10	Tr.	42	7	6
S4562-E-21	Cucamonga Creek, 6 miles N. of Upland. Sampled at U. S. G. S. gaging station in NE. ¼, Sec. 17, T. 1 N., R. 7 W., S. B. B. & M. Discharge is from U. S. G. S. unpublished records.	S4562	2,550	17	837	3/17/32	26.6	0.06	12	156	2	14	0	39	10	9
S18561-E-23	Day Creek, 6 miles N. of Etiwanda. Sampled at U. S. G. S. gaging station in SW. ¼, Sec. 8, T. 1 N., R. 6 W., S. B. B. & M., 0.25 mile below junction of two main forks. Discharge is from U. S. G. S. unpublished records.	S18561	2,900	4.6	836	3/17/32	25.0	0.02	12	149	2	7	0	41	8	8
S19393-C-23	Lytle Creek, N. fork. NW. of San Bernardino. Sampled one mile above Glenn Ranch. Discharge estimated when sampled.	S19393	3,500	6	([d])	3/12/30	38.0	Tr.		189	Tr.	27		57	11	
S19459-E-25	Lytle Creek. NW. of San Bernardino. Sampled from creek at intake of Fontana power house canal, 1.35 miles NW. from Cajon Creek Road on E. side of Lytle Creek Canyon Road. During spring of 1932 70 lbs. of $CuSO_4$ per 24 hours was added to flow in power canal 500 feet below this station. Lab. No. 1307 was sampled at S18704-F-26, as a comparison to Lab. No. 1306 at this station.	S19459	2,220		1306	9/ 2/32	32.7	0.02	8	[a]180	0	24	1	51	12	7
S18704-F-26	Lytle Creek water. NW. of San Bernardino. Sampled from tailrace at Fontana power house, 150 feet NE. of Riverside Ave., 2.1 miles NW. of Highland Ave. Discharge given is combined discharge of Lytle Creek and Fontana pipe line from W. S. P. No. 721 and U. S. G. S. unpublished records.	S18704	1,580	27	([e])	6/ 7/30		Tr.		173	3	[b]24	1	50		
				17.5	103	7/ 3/31	31.5		15	177	0	21	Tr.	48	8	12
				15.1	217	8/12/31	31.6		11	[a]180	2	21	Tr.	49	13	9
				13.6	289	9/10/31	35.0	0.12	8	[a]183	0	21	Tr.	49	12	6
				14.6	432	10/13/31	32.0	0.01		180	0					
				13.6	493	11/ 9/31	32.1	0.02		180	0					
				15.2	588	12/14/31	36.1	0.01	10	[a]204	2	25	1	56	10	9
				23	625	1/14/32	31.8	0.02		180	2					
				92	752	2/16/32	25.5	0.01		137	0					
				61	827	3/15/32	26.6	0.01		143	4					
				49	904	4/15/32	26.7	0.02	11	152	2	11	1	40	8	8
				38	991	5/20/32	26.7	0.08		[a]149	0					
				36.4	1054	6/17/32	27.8	0.02		[a]152	0					
				30.3	1171	7/15/32	28.8	0.02		[a]159	0					
				41.2	1281	8/15/32	33.8	0.03		[a]192	0					
				44	1307	9/ 2/32	35.4	0.03	8	[a]186	0	24	Tr.	57	11	7
				40	1394	9/19/32	35.2	0.08		198	0					
					1478	10/15/32	35.6	0.08		195	0					
					1538	11/14/32	34.1	0.04	12	192	2	22	Tr.	53	11	11
					1690	1/16/33	34.7	0.04		189	2					
					1755	2/16/33	32.5	0.04		183	0					
S19433C-C-24	Lone Pine Creek near Keenbrook. Sampled 550 feet above U. S. G. S. gaging station and 200 feet below Lone Pine Road crossing, or 550 feet N. and 800 feet W. of the S. ¼ corner, Sec. 12, T. 2 N., R. 6 W., S. B. B. & M. Rising water below San Andreas fault. Discharge from W. P. Rowe.	S19433C	2,642	0.02	([d])	10/19/32	78.8	0.11	9	354	14	149	2	110	36	[c]18
S19433-C-24	Lone Pine Creek. N. of Keenbrook. Sampled at U. S. G. S. gaging station 560 feet W. and 100 feet N. of S. ¼ corner, Sec. 12, T. 2 N., R. 6 W., S. B. B. & M., 50 feet above A. T. & S. F. Ry. bridge. Discharge from U. S. G. S. unpublished records.	S19433	2,600	0.9	829	3/17/32	74.4	0.02	12	326	7	145	4	100	36	24
				0.8	900	4/15/32	76.9	0.02	12	[a]333	11	153	2	100	38	25
				0.75	995	5/14/32	80.1	0.16		[a]332	9					
				0.44	1057	6/17/32	81.1	0.06		336	12					
				0.36	1175	7/12/32	84.4	0.07		[a]338	12					
				0.39	1284	8/15/32	84.3	0.05		[a]323	11					
				0.41	1401	9/17/32	84.1	0.14	12	336	11	178	1	107	38	26
				0.4	1489	10/12/32	83.1	0.10		332	7					
				0.48	1553	11/16/32	82.1	0.08		339	9					
				0.5	1611	12/14/32	82.4	0.04	11	329	9	168	2	104	38	24
				0.9	1694	1/17/33	87.4	0.07	12	305	14	219	2	110	39	28
					1757	2/14/33	79.1	0.05		320	7					

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S19433b-C-24	Mathis Creek (E. branch of Lone Pine Creek). S. of Cozy Dell. Sampled 200 feet below Old Cajon Highway, or 560 feet N. and 220 feet W. of the S. ¼ corner, Sec. 12, T. 2 N., R. 6 W., S. B. B. & M. Discharge from W. P. Rowe.	S19433B	2,643	0.01	(d)	11/16/32	74.6	0.06	18	348	15	120	10	98	28	c35
S19442-C-24	Cajon Creek. S. of Cozy Dell. Sampled at Old Road crossing 500 feet NE. of Cajon Highway, or 200 feet W. and 1,100 feet S. of the E. ¼ corner, Sec. 12, T. 2 N., R. 6 W., S. B. B. & M., above rising water at San Andreas Fault. Discharge from W. P. Rowe.	S19442	2,670	0.11	(d)	10/19/32	67.9	0.12	27	357	22	54	Tr.	80	19	c48
				0.13	(d)	11/16/32	67.2	0.08		354	21					
S19443-C-24	Cienega, S. of Cozy Dell. Sampled at foot of bluff below A. T. & S. F. Ry. at San Andreas fault, 300 feet NE. of Cajon Highway, or 1,100 feet W. and 720 feet N. of SE. corner, Sec. 12, T. 2 N., R. 6 W., S. B. B. & M. Discharge from W. P. Rowe.	S19443	2,648	0.40	(d)	10/19/32	98.5	0.06	7	369	12	254	2	140	48	c18
S19433a-C-24	Cajon Creek. N. of Keenbrook. Sampled at U. S. G. S. gaging station, 340 feet E. and 200 feet N. of S. ¼ corner, Sec. 12, T. 2 N., R. 6 W., S. B. B. & M., 200 feet N. of Cajon Highway. Discharge from U. S. G. S. unpublished records.	S19433A	2,600	16	833	3/17/32	56.5	0.04	21	290	11	61	4	73	20	32
				7.4	907	4/15/32	65.8	0.05	20	330	13	80	2	85	22	36
				5.5	996	5/14/32	68.1	0.10		320	12					
				3.7	1058	6/14/32	69.6	0.06		320	16					
				1.8	1176	7/12/32	74.6	0.04		320	12					
				1.6	1285	8/15/32	75.9	0.05		314	13					
				1.6	1400	9/17/32	77.9	0.04	16	324	12	144	2	95	33	32
				1.6	1490	10/12/32	78.2	0.12		320	11					
				1.9	1554	11/16/32	76.3	0.06		317	11					
				2.9	1612	12/14/32	78.5	0.06	19	345	12	123	3	97	29	39
				21	1695	1/17/33	59.8	0.07	27	259	20	73	4	68	16	27
					1756	2/14/33	58.0	0.04		284	13					
S19569-E-27	Devil Canyon Creek. NW. of San Bernardino. Sampled at U. S. G. S. gaging station in NE. ¼, Sec. 6, T. 1 N., R. 4 W., S. B. B. & M. Discharge from U. S. G. S. unpublished records.	S19569	1,950	1.1	832	3/17/32	39.0	0.01	12	210	7	31	0	54	14	12
S18820-E-28	Waterman Canyon Creek. N. of San Bernardino. Sampled at U. S. G. S. gaging station in SW. ¼, Sec. 2, T. 1 N., R. 4 W., S. B. B. & M., 600 feet above old toll house and 1 mile NW. of Arrowhead Springs. Discharge from U. S. G. S. unpublished records and W. S. P. No. 706.	S18820	2,150	1.2	(d)	3/12/30	34.0	Tr.	31	171	9	20		39	6	c25
				5	(d)	3/14/30	27.4	Tr.	11	149	7	19		30	15	c8
				6.1	830	3/17/32	23.9	0.02		128	7					
S18822-E-28	Waterman Canyon Creek. Sampled at diversion weir 400 feet E. of Arrowhead Highway, 850 feet S. of P. E. Ry. crossing, 750 feet S. of N¼ corner, Sec. 14, T. 1 N., R. 4 W., S. B. B. & M. Discharge on 1/9/29 estimated by U. S. D. A. Other discharges estimated by U. S. G. S.	S18822	1,650	1	(d)	1/9/29	76.1	0.79	58	146	36	203		40	14	c102
					212	8/12/31	54.4		49	165	23	91	0	38	12	63
					587	12/14/31	59.6	0.55	51	168	23	116	1	38	11	69
					621	1/14/32	51.5	0.45		162	20					
					834	3/17/32	34.8	0.14	38	128	12	49	1	30	10	33
					992	5/18/32	60.1	0.65	58	a146	25	133	Tr.	35	10	82
					1172	7/15/32	107	1.73	74	a134	52	311	0	38	10	185
				0.33	1395	9/13/32	131	2.16	79	a114	101	399	Tr.	36	10	233
				0.58	1551	11/15/32	91.2	1.30	68	155	41	237	0	40	11	140
					1691	1/17/33	54.3	0.45	42	152	21	110	1	37	12	47
S18841-E-28	Strawberry Creek. N. of San Bernardino. Sampled just above junction with Twin Creek in NW¼, Sec. 12, T. 1 N., R. 4 W., S. B. B. & M. and E. of Arrowhead Springs. Discharge estimated by U. S. D. A. at time of sampling.	S18841	1,950	3	(d)	3/14/30	22.5	0.04	29	125	7	9		24	6	16
S18831-E-28	Strawberry Creek. S. of Arrowhead Springs. Sampled at U. S. G. S. gaging station in SE¼, Sec. 11, T. 1 N., R. 4 W., S. B. B. & M., at Del Rosa Water Co.'s diversion dam. Discharge from U. S. G. S. unpublished records.	S18831	1,700	7	828	3/15/32	35.9	0.29	50	128	16	59	0	26	8	44
S18905-F-29	City Creek. NE. of Highland. Sampled from head of City Creek Water Co. canal, 600 feet E. of City Creek Road, 4,600 feet N. of Highland Ave., in NW¼, Sec. 27, T. 1 N., R. 3 W., S. B. B. & M. Discharge given is combined discharge of canal and City Creek, from W. S. P. No. 721 and U. S. G. S. unpublished records.	S18905	1,600		(f)	Oct., 1918			28	a127	10	19	0	28	9	c19
				0.7	221	8/12/31	30.9		27	155	7	22	0	34	11	22
				1.7	491	11/9/31	27.7	0.08		156	4					
				5.3	586	12/14/31	23.8	0.05	29	122	7	13	0	24	7	17
				8.7	630	1/16/32	20.1	0.02		107	6					
				60.1	750	2/16/32	13.3	0.04		64	6					
				10.6	826	3/17/32	16.8	0.04		85	6					
				9.8	901	4/15/32	16.3	Tr.	34	82	6	4	0	16	5	15
				7.5	993	5/18/32	16.4	0.06		82	4					
				3.1	1173	7/14/32	20.6	0.04	32	110	4	5	0	22	6	18
				1.1	1282	8/17/32	25.3	0.10		a125	6					
				0.5	1398	9/15/32	29.1	0.09	31	140	5	21	Tr.	31	9	24
				0.95	1480	10/14/32	26.3	0.12		131	5					
				1.5	1552	11/14/32	25.2	0.08	30	128	5	12	0	25	8	19
					1692	1/17/33	21.0	0.06	33	98	9	8	Tr.	21	6	17
					1754	2/13/33	17.8	0.04		85	6					

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10³ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S18958-G-30	Plunge Creek. NE. of East Highlands. Sampled at U. S. G. S. gaging station in NE¼, Sec. 1, T.1 S., R.3 W., S. B. B. & M., at mouth of canyon at crossing of North Fork ditch siphon. Discharge from U. S. G. S. unpublished records.	S18958	1,650	15	825	3/16/32	13.1	0.02	31	64	5	5	0	15	5	12
S18999-G-31	Santa Ana River. NE. of Redlands. Sampled at head of North Fork Ditch and Redlands Canal, on S. side of Santa Ana Canyon Road at mouth of canyon. Discharge given is combined discharge of Southern California Edison Co., Ltd., power plant tailrace and Greenspot pipe line, from W. S. P. Nos. 706, 721, and U. S. G. S. unpublished records.	S18999	1,900	52	(e)	6/9/30	---	Tr.		98	3	[b]7	Tr.	21	---	---
				43	(e)	7/10/30		Tr.		106	4	[b]10	Tr.	15	---	---
				34	102	7/3/31	22.0		28	122	0	11	Tr.	24	7	16
				39	214	8/12/31	22.7		26	[a]128	0	10	Tr.	24	11	16
				34	286	9/10/31	23.9	0.02	19	125	0	7	Tr.	23	10	11
				32	431	10/13/31	23.3	0.02	23	128	2	7	0	25	10	14
				20	490	11/9/31	24.2	0.12	---	128	0	---	---	---	---	---
				30	585	12/14/31	24.8	0.06	29	125	4	18	Tr.	26	7	18
				37	629	1/16/32	22.0	0.04	---	119	2	---	---	---	---	---
				185	754	2/15/32	16.6	0.04	---	88	2	---	---	---	---	---
				133	822	3/16/32	18.0	0.01	---	101	4	---	---	---	---	---
				141	902	4/15/32	15.8	0.07	23	82	2	6	0	19	5	9
				136	994	5/17/32	13.9	0.14	---	73	0	---	---	---	---	---
				69	1174	7/14/32	15.1	0.03	---	76	2	---	---	---	---	---
				63	1288	8/15/32	16.9	0.05	---	88	2	---	---	---	---	---
				55	1399	9/15/32	18.0	0.02	24	92	2	3	Tr.	20	6	10
				47	1482	10/14/32	18.5	0.16	---	101	0	---	---	---	---	---
				43	1537	11/14/32	19.3	0.12	---	101	0	---	---	---	---	---
				34	1610	12/14/32	18.9	0.04	24	95	4	11	1	21	5	11
				---	1693	1/16/33	21.4	0.08	---	107	4	---	---	---	---	---
				---	1753	2/14/33	21.1	0.06	---	107	4	---	---	---	---	---
S18999A-G-31	Redlands Tunnel. NE. of Redlands. Sampled from tunnel ditch where road running S. along Redlands Canal crosses ditch 300 feet S. of Santa Ana Canyon Road. Use: Irrigation.	S18999A	1,875	---	1420	9/22/32	37.9	0.06	38	140	5	57	1	33	8	34
S18260-G-32	Mill Creek. NE. of Redlands. Sampled from tailrace of Southern California Edison Co., Ltd., power plant 2, 200 feet SE. of Mill Creek Road, 0.6 mile NE. of 2d Ave. Discharge from Southern California Edison Co., Ltd., at time of sampling.	S18260	3,000	6.1	100	7/3/31	34.9	---	14	177	---	35	1	50	11	13
S18232-H-32	Mill Creek. NE. of Redlands. Sampled from concrete weir on N. side of Mill Creek Road (Lugonia Ave., extended), at Zanja Ditch. U. S. G. S. analyses were sampled at their gaging station in NE¼, Sec. 13, T.1 S., R.2 W., S. B. B. & M., at mouth of canyon, below bridge on Mill Creek Road. Discharge given is combined discharge of Mill Creek and Mill Creek power canals Nos. 1, 2 and 3, from W. S. P. Nos. 706, 721, and U. S. G. S. unpublished records.	S18232	2,450	37	(e)	6/18/30	---	Tr.	---	[a]111	2	[b]18	Tr.	32	---	---
				33.2	(e)	7/10/30	---	Tr.	---	135	2	[b]28	Tr.	35	---	---
				15.4	101	7/3/31	28.0		13	146	0	24	1	38	11	9
				16.7	222	8/12/31	28.8	---	15	149	4	21	0	40	12	12
				12.4	288	9/10/31	29.0	0.10	10	149	0	22	1	39	11	7
				13.5	430	10/13/31	28.8	0.02	---	146	2	---	---	---	---	---
				15.1	489	11/9/31	29.4	0.02	---	149	0	---	---	---	---	---
				15.2	584	12/14/31	25.5	Tr.	11	125	2	20	1	34	9	7
				14.4	627	1/15/32	27.2	Tr.	---	137	4	---	---	---	---	---
				41	749	2/18/32	27.8	0.01		137	2	---	---	---	---	---
				50	823	3/15/32	27.5	0.02		140	2	---	---	---	---	---
				80	903	4/15/32	20.6	0.06	12	101	2	13	2	28	6	6
				113	990	5/18/32	17.3	0.08	---	82	0	---	---	---	---	---
				71	1088	6/21/32	19.1	0.02		95	2	---	---	---	---	---
				43	1170	7/15/32	26.6	0.01	12	[a]140	0	14	1	37	9	8
				30	1287	8/15/32	23.6	Tr.	---	119	0	---	---	---	---	---
				24	1397	9/15/32	25.9	0.02	---	125	0	---	---	---	---	---
				23.5	1481	10/14/32	25.3	0.10		125	2	---	---	---	---	---
				23.3	1550	11/14/32	28.0	0.04	---	137	2	---	---	---	---	---
				15.8	1609	12/14/32	24.1	0.04	7	119	2	18	Tr.	32	7	4
				---	1689	1/16/33	25.2	0.06	12	125	0	12	2	34	7	7
				---	1752	2/13/33	26.6	0.02	---	131	2	---	---	---	---	---
S18118-I-30	San Timoteo Creek. 2½ miles S. of Redlands. Sampled at U. S. G. S. water stage recorder in NE¼, Sec. 10, T.2 S., R.3 W., S. B. B. & M. Discharge from U. S. G. S. unpublished records.	S18118	1,440	0.06	623	1/13/32	68.3	0.02	---	333	34	---	---	---	---	---
				3.1	748	2/15/32	82.3	0.10	34	330	38	130	6	79	28	74
				0.8	831	3/18/32	77.8	0.08		327	38	---	---	---	---	---
				0.6	1688	1/16/33	65.1	0.05	37	320	30	47	2	61	20	62
				---	1759	2/13/33	77.5	0.12	---	327	30	---	---	---	---	---
S18003-H-28	Santa Ana River. E. of Colton. Sampled at E St. (Colton Ave.) bridge.	S18003	970	---	(f)	5/15/19	---	---	34	[a]170	15	32	0	40	10	[c]37
				---	(f)	June, 1919		---	40	320	33	56	8	58	16	[c]63
				---	(f)	Aug., 1919		---	26	201	15	33	2	49	10	[c]26
				---	(f)	Oct., 1919	---		34	176	14	34	0	42	10	[c]34
				---	(f)	12/2/19	---		23	170	10	35	0	42	10	[c]20
				---	(f)	Jan., 1920	---	---	43	210	17	46	0	38	10	[c]46
				---	(f)	1920	---	---	45	278	33	66	4	43	19	[c]70
				---	1711	2/1/33	34.6	0.06	20	159	9	34	2	41	11	17

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S18001-G-28	Warm Creek. S. of San Bernardino. Sampled at E St. crossing. Use: Irrigation.	S18001	1,000		(d)	2/28/29	46.2	0.20	23	201	14	46		53	11	c24
					(d)	3/ 6/29	44.2	0.23	23	195	12	43		50	11	c24
					(d)	3/13/29	49.7	0.16	22	198	14	44		52	11	c23
					(f)	1/ 3/30				204	16					
					(f)	Jan., 1930					16					
S17993-H-27	Warm Creek. E. of Colton. Sampled at U. S. G. S. gaging station at Colton Ave. bridge, 0.4 mile E. of Mt. Vernon Ave. Meeks and Daley canal diverts 0.5 mile above station and San Bernardino Sewage Disposal Plant discharges into creek above station. Samples prior to Jan. 13, 1932 were taken at Riverside Water Co. canal intake, 2,000 feet S., except U. S. G. S. sample. Discharge given is combined discharge of Warm Creek, and Meeks and Daley canal, from W. S. P. Nos. 706, 721, and U. S. G. S. unpublished records.	S17993	950		(f)	5/ 5/19			40	150	18	36	0	37	8	c39
					(f)	June, 1919			35	162	15	40	2	40	9	c34
					(f)	7/ 8/19			27	218	17	41	2	48	11	c29
					(f)	Sept., 1919			27	189	15	44	3	50	9	c28
					(f)	Oct., 1919			23	204	17	52	2	54	12	c24
					(f)	Dec., 1919			22	201	12	46	2	56	10	c24
					(f)	Jan., 1920			42	195	17	42	2	38	9	c44
					(f)	Feb., 1920			45	192	14	41	4	30	10	c43
				39	(f)	1/ 3/30				198	25					
				41	(d)	1/ 7/30	47.8	0.21	22	195	30	43		58	12	c25
				35	(e)	7/10/30		0.02		186	26	b25	22	52		
				31	302	9/15/31	57.3	0.15	33	183	34	35	21	50	15	42
				28	429	10/13/31	57.2	0.14	33	177	41	31	22	53	12	42
				36	488	11/ 9/31	46.2	0.15		180	21					
				40	583	12/14/31	50.6	0.06	21	189	16	67	6	59	14	26
				51	628	1/13/32	50.2	0.17		180	23					
				56	751	2/15/32	57.2	0.11		189	20					
				48	824	3/16/32	49.4	0.13		180	20					
				42	908	4/16/32	47.3	0.17	28	186	20	41	10	53	11	32
				41	989	5/16/32	48.2	0.19		192	21					
				38	1056	6/20/32	47.3	0.11		180	23					
				31	1169	7/16/32	49.8	0.21		177	28					
				28	1283	8/17/32	50.2	0.17		177	28					
				28	1396	9/14/32	51.2	0.17	33	177	30	30	22	51	11	39
				28	1479	10/14/32	51.2	0.22		189	27					
				34	1549	11/14/32	53.3	0.19		174	37					
				47	1608	12/14/32	41.3			149	16					
					1687	1/17/33	58.6	0.12	22	156	18	115	11	67	15	30
					1758	2/16/33	52.5	0.16		180	21					
S17993A-H-27	Meeks and Daley Canal. E. of Colton. Sampled at Colton Ave. crossing, 0.55 mile E. of Mt. Vernon Ave. Diverts from Warm Creek 0.5 mile above Colton Ave.	S17993	955		998	5/16/32	43.3	0.14	21	198	11	44	2	55	13	24
					1055	6/20/32	43.4	0.07		204	11					
S17062-J-27	Gage Canal Co. canal. Riverside. Sampled at 8th St. crossing. Use: Irrigation.	S17062	1020		(d)	11/19/28	35.5	0.19	38	155	12	31		45		c30
					(d)	6/28/30	49.0	0.05	27	214	25	47		56	12	c32
					(d)	9/ 3/30	48.9	0.07	17	195	16	48		56	13	c18
					(d)	10/ 1/30	46.3	0.06	27	214	21	48		55	12	c32
					(d)	11/ 1/30	45.6	0.02	19	189	21	42		53	13	c20
					(d)	12/ 1/30	44.8	0.03	20	183	18	45		54	11	c20
					(d)	1/ 7/31	39.8	0.01	19	152	14	41		47	8	c16
					(d)	2/ 5/31	42.3	0.05	19	180	14	39		50	11	c18
					(d)	4/ 1/31	48.9	0.02	25	201	27	47		57	11	c29
					(d)	5/ 1/31	40.5	Tr.	17	165	12	46		51	10	c16
					(d)	6/ 2/31	44.5	0.01	23	186	18	37		53	10	c23
					(d)	7/ 1/31	52.9	0.01	27	204	23	48	17	57	12	c33
					(d)	8/ 1/31	50.1	0.05	37	238	23	42	10	55	9	c48
					(d)	9/11/31	46.9	0.06	29	195	21	47	10	53	11	c33
					(d)	10/ 3/31	48.4	0.03	26	198	25	49	13	56	12	c32
					(d)	11/ 5/31	49.2	0.04	23	195	20	47	9	55	13	c26
					(d)	12/ 2/31	39.3	0.03	24	179	20	29	13	53	8	c24
					(d)	1/ 2/32	41.3	0.05	26	173	14	39	5	45	10	c24
					(d)	1/30/32	39.5	0.04	30	177	16	45	6	45	10	c30
					(d)	4/ 5/32	53.5	0.05	24	229	21	51	17	63	14	c31
					(d)	4/30/32	49.1	0.03	14	214	21	41	12	60	15	c16
					(d)	6/ 1/32	51.3	0.03	24	214	25	51	14	60	14	c31
					(d)	7/ 2/32	51.6	0.07	26	220	23	55	12	61	13	c34
					(d)	8/ 2/32	48.2	0.04	24	210	23	45	13	57	14	c29
					(d)	9/ 2/32	50.2	0.05	18	217	21	49	15	67	14	c22
					(d)	10/ 7/32	47.0	0.08	22	207	20	40	11	54	14	c26
					(d)	11/ 2/32	50.4	0.08	27	223	27	46	17	61	13	c36
					(d)	12/ 1/32	46.5	0.08	28	207	24	40	11	52	13	c33

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S17022-J-26	Riverside Water Co. canal. Riverside. Sampled at 14th St. crossing. Use: Irrigation. Samples taken prior to 4/5/32 were from 8th St. crossing.	S17022	880	-------	(d)	11/19/28	44.6	0.19	52	198	14	40	-------	43	-------	c54
				-------	(d)	6/28/30	51.2	0.98	32	214	25	57	-------	54	12	c39
				-------	(d)	8/12/30	51.2	0.12	28	217	25	35	-------	54	11	c32
				-------	(d)	9/3/30	51.1	0.10	17	226	18	47	-------	58	17	c20
				-------	(d)	10/1/30	47.9	0.07	29	207	21	63	-------	55	12	c36
				-------	(d)	11/1/30	44.3	0.37	26	201	21	37	-------	51	11	c28
				-------	(d)	12/1/30	48.9	0.11	21	195	16	47	-------	55	11	c23
				-------	(d)	1/7/31	49.0	0.09	18	189	14	47	-------	54	12	c18
				-------	(d)	1/30/31	46.9	0.14	19	195	16	51	-------	55	12	c21
				-------	(d)	3/2/31	48.8	0.12	19	189	12	59	-------	56	12	c20
				-------	(d)	4/1/31	49.6	0.03	35	192	44	47	-------	53	10	c43
				-------	(d)	5/1/31	46.3	0.11	29	204	18	44	-------	52	10	c31
				-------	(d)	6/2/31	46.6	0.07	26	186	20	33	-------	51	10	c28
				-------	(d)	7/1/31	50.3	0.09	19	204	27	21	11	58	11	c21
				-------	(d)	8/1/31	53.0	0.12	31	238	27	41	10	56	13	c41
				-------	(d)	9/2/31	50.9	0.14	30	201	25	48	11	56	10	c36
				-------	(d)	10/3/31	48.5	0.16	34	195	30	36	14	49	11	c29
				-------	(d)	11/5/31	42.8	0.13	27	183	20	31	8	48	9	c27
				-------	(d)	12/2/31	49.3	0.14	28	196	25	49	14	56	11	c34
				-------	(d)	1/30/32	49.7	0.12	25	186	23	55	16	57	12	c29
				-------	(d)	4/5/32	48.0	0.18	22	198	21	43	14	57	13	c25
				-------	(d)	4/30/32	51.1	0.28	17	207	21	31	19	57	15	c20
				-------	(d)	6/1/32	48.3	0.16	24	204	16	50	9	56	12	c27
				-------	(d)	7/2/32	55.8	0.16	30	223	36	57	14	63	14	c41
				-------	(d)	8/2/32	59.0	0.09	23	229	39	45	18	66	16	c32
				-------	(d)	9/2/32	58.0	0.10	24	223	37	49	18	70	13	c33
				-------	(d)	10/7/32	49.6	0.21	28	201	27	40	13	54	12	c33
				-------	(d)	11/2/32	48.0	0.14	27	217	24	38	22	58	13	c34
				-------	(d)	12/1/32	46.6	0.15	26	195	22	44	13	54	12	c29
S17965-H-27	Santa Ana River. S. of Colton. Sampled at La Cadena Ave. bridge.	S17965	895	-------	(f)	3/5/19	-------	-------	34	204	17	37	3	43	10	c36
				-------	(f)	4/1/19	-------	-------	23	a256	24	46	0	56	16	c29
				-------	1712	2/1/33	55.6	0.14	-------	189	21	-------	-------	-------	-------	-------
S17000-J-26	Santa Ana River. W. of Riverside. Sampled 200 feet W. of E. abutment and 100 feet N. of Rubidoux Bridge. Discharge estimated by D. W. R. at time of sampling.	S17000	765	4	1392	9/19/32	62.7	0.17	32	302	36	26	Tr.	67	15	50
				-------	1713	2/1/33	61.7	0.14	-------	247	43	-------	-------	-------	-------	-------
S16952-J-25	Santa Ana River. NW. of Riverside. Sampled at U. S. G. S. gaging station in Riverside Narrows 3,000 feet downstream from U. P. R.R. Bridge. D. W. R. Lab. No. 779 was sampled on S. side, No. 780 as a composite across stream, and No. 781 on N. side of river. U. S. D. A. analysis on 3/9/32 is duplicate of D. W. R. Lab. No. 780 from same sample. Discharge from W. S. P. Nos. 706, 721 and U. S. G. S. unpublished records.	S16952	690	33	(e)	7/10/30	-------	0.02	-------	313	-------	b28	12	88	-------	-------
				33	(e)	11/12/30	-------	0.08	-------	310	-------	b58	13	85	-------	-------
				30	298	9/15/31	83.7	0.15	33	a305	85	47	11	83	21	66
				31	427	10/13/31	79.6	0.15	34	302	84	41	6	83	18	67
				32	492	11/9/31	81.1	0.09	-------	308	84	-------	-------	-------	-------	-------
				56	582	12/14/31	72.9	0.13	32	271	62	53	6	76	17	56
				77	624	1/15/32	68.7	0.13	-------	259	59	-------	-------	-------	-------	-------
				57	756	2/15/32	80.8	0.13	-------	302	77	-------	-------	-------	-------	-------
				52	779	3/9/32	81.1	0.14	-------	305	84	-------	-------	-------	-------	-------
				52	780	3/9/32	81.1	0.16	32	305	84	52	8	85	20	63
				52	781	3/9/32	81.1	0.12	-------	305	84	-------	-------	-------	-------	-------
				52	(d)	3/9/32	83.8	-------	30	308	80	49	12	85	20	c60
				45	821	3/14/32	80.4	0.12	-------	305	84	-------	-------	-------	-------	-------
				33	906	4/15/32	84.3	0.14	-------	a299	94	-------	-------	-------	-------	-------
				32	1003	5/19/32	85.1	0.15	34	308	89	52	8	86	18	70
				30	1053	6/16/32	83.8	0.14	-------	296	89	-------	-------	-------	-------	-------
				29	1168	7/14/32	84.2	0.16	-------	a298	89	-------	-------	-------	-------	-------
				27	1289	8/15/32	82.8	0.14	-------	a302	89	-------	-------	-------	-------	-------
				27	1376	9/15/32	84.8	0.22	34	299	87	47	10	84	19	69
				30	1483	10/15/32	84.4	0.20	-------	302	85	-------	-------	-------	-------	-------
				63	1585	12/13/32	77.3	0.19	32	278	69	50	11	78	19	59
				65	1686	1/18/33	77.5	0.14	-------	278	73	-------	-------	-------	-------	-------
				37	1801	2/23/33	81.5	0.14	-------	296	80	-------	-------	-------	-------	-------
S16923-J-24	Santa Ana River. N. of Arlington. Sampled at end of Tyler St., 4,000 feet downstream from Pedley Bridge.	S16923	650	-------	(g)	10/13/31	92.3	-------	-------	-------	87	-------	-------	-------	-------	-------
S16854-J-23	Santa Ana River. N. of Norco. Sampled at U. S. G. S. gaging station, 0.5 mile above Hamner Ave. bridge. Discharge from U. S. G. S. unpublished records.	S16854	575	37	1484	10/13/32	80.0	0.16	-------	284	87	-------	-------	-------	-------	-------
S16845-J-23	Santa Ana River. N. of Norco. Sampled at Hamner Ave. bridge. Bailey No. 2736F. Lab. No. 1004 was sampled from the S. side, No. 1005 is a composite across the stream, and No. 1006 was sampled from the N. side of the river. Discharge given is from the U. S. G. S. Hamner Ave. gaging station as published in W. S. P. 721 and U. S. G. S. unpublished records.	S16845	565	31	(g)	9/13/31	83	-------	39	256	83	65	-------	73	14	c71
				35	(g)	10/13/31	81.4	-------	-------	-------	82	-------	-------	-------	-------	-------
				73	(g)	11/28/31	69	-------	26	217	64	50	-------	70	15	c38
				36	1004	5/19/32	77.0	0.18	-------	241	94	-------	-------	-------	-------	-------
				36	1005	5/19/32	76.2	0.21	-------	235	92	-------	-------	-------	-------	-------
				36	1006	5/19/32	76.1	0.16	-------	238	90	-------	-------	-------	-------	-------
				25	1377	9/15/32	71.9	0.18	41	214	85	43	7	58	16	67

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S16835-K-22	Santa Ana River. N. of Norco. Sampled 0.5 mile downstream from Hamner Ave. bridge. Lab. No. 782 is a composite sample across the stream, No. 783 was from the N. side, and No. 784 from the S. side of the river. Discharge given is from measurement at time and point of sampling by U. S. G. S. unpublished miscellaneous record.	S16835	555	65	782	3/ 9/32	81 0	0 11	...	302	89	...	...	...	...	...
				65	783	3/ 9/32	77.5	0 14	...	296	80	...	...	...	...	...
				65	784	3/ 9/32	79 4	0 11	...	299	85	...	...	...	...	...
S16807-K-22	Santa Ana River. NW. of Corona. Sampled at U. S. G. S. gaging station, 600 feet upstream from Auburndale Road bridge (River Road). Bailey No. 3710C. Lab. Nos. 785, 1007, and 1,380 were sampled from S. side of river; Lab. Nos. 786, 1008 and 1379 were sampled as composite across stream; Lab. Nos. 787, 1009, 1378, and U. S. G. S. analysis on 7/10/30 were sampled from N. side of river. Discharge from W. S. P. Nos. 706, 721, and U. S. G. S. unpublished records and miscellaneous records.	S16807	520	40	(e)	7/10/30		0 07	...	[a]252	88	[b]68	5	76	...	...
				40	(g)	9/13/31	72	...	32	250	67	50	...	68	17	[c]51
				50	(g)	10/10/31	71	...	31	238	68	41	...	66	15	[c]48
				48	(g)	10/13/31	71 5	...	...	...	66	...	...	...	...	...
				129	(g)	11/28/31	68		28	232	60	51	...	69	16	[c]42
				84	785	3/ 9/32	72 8	0 12	30	284	73	43	6	78	21	56
				84	786	3/ 9/32	70 5	0 08	...	277	67	...	...	...	...	...
				84	787	3/ 9/32	65 0	0 10	28	268	59	35	4	71	21	47
				57	1007	5/19/32	68 2	0 16	37	235	75	42	7	62	14	59
				57	1008	5/19/32	65 6	0 14	...	238	67	...	...	...	...	...
				57	1009	5/19/32	60.3	0.13	33	238	55	34	3	60	16	48
				43	1378	9/15/32	59 1	0 13	34	220	57	31	6	54	15	49
				43	1379	9/15/32	62 9	0 09	...	220	66	...	...	...	...	...
				43	1380	9/15/32	64 6	0 12	39	220	71	40	6	55	17	59
				47	1485	10/13/32	70 1	0 14	...	268	67	...	...	...	...	...
S16798-K-22	Santa Ana River. NW. of Corona. Sampled 1.5 miles downstream from Auburndale Road bridge (River Road), at O. C. F. C. D. gaging station. Bailey No. 3715J.	S16798	490		(g)	9/13/31	74	...	31	247	67	48	...	70	16	[c]49
				56	(g)	10/13/31	71 6	...	...	...	64	...	...	...	...	...
					(g)	11/28/31	66	...	...	...	56	...	...	...	...	...
S16789-K-21	Lillibridge Weir. NW. of Corona. Sampled at O. C. F. C. D. gaging station 129 at weir in Lillibridge ditch, 2,200 feet NE. of Yorba St., extended, from point on Yorba St. 3,300 feet NW. of A. T. & S. F. Ry. Bailey No. 3716B. The Lillibridge pump delivers water from Santa Ana River above A. T. & S. F. Ry. bridge and below Auburndale bridge.	S16789	500		(g)	9/13/31	139		35	329	183	111		124	26	[c]104
					(g)	10/13/31	137 2				176					
S16779B-K-21	Santa Ana River. NW. of Corona. Sampled 300 feet upstream from intersection of Yorba St., extended. Bailey No. 3716H. Sample on 9/13/31 was taken from E. side of river. Sample on 11/28/31 is a composite sample across stream.	S16779B	480	...	(g)	9/13/31	116	...	...	...	144	...	...	...	...	...
					(g)	11 28/31	70	...	...	...	66	...	...	...	...	...
S16779-K-21	Santa Ana River. N. of Prado. Sampled at U. S. G. S. recorder stilling well No. E-4, on S. edge of stream, 500 feet downstream from intersection of Yorba St. extended.	S16779	477	...	1384	9/15/32	71 0	0 13	...	232	80	...	...	...	...	...
S16156-M-27	Cajalco Creek. S. of Riverside. Sampled from creek 900 feet S. of the center of Sec. 7, T. 4 S., R. 4 W., S. B. B. & M. In Cajalco Canyon.	S16156	1,543	...	(d)	4/ 3/33	356	0 16	50	314	819	390	Tr.	198	102	421
S14904-O-24	Cold Water Creek. SE. of Corona. Sampled at Temescal Water Co. diversion channel at road culvert at Glenn Ivy Inn. Tributary to Temescal Creek.	S14904	1,300	...	719	2/15/32	24 2	0 06	19	107	4	24	0	34	6	12
S15962-L-23	Temescal Creek. E. of Corona. Sampled at S. side of 6th St. bridge. Lab. No. 720 taken from stream on E. side of channel. Lab. No. 729 was taken from stream on W. side of channel, which was mostly Corona city storm drainage. Discharge estimated at time of sampling by D. W. R.	S15962	620	0 02	720	2/15/32	45 4	0 02	...	116	30	...	...	...	...	...
				0 05	729	2/15/32	97 3	0 06	...	[a]228	21	...	...	...	...	...
S16779A-K-21	Santa Ana River. NW. of Corona. Sampled from left or E. bank 300 feet below Temescal Creek active channel, 1,600 feet SW. of Yorba St. from point 3,600 feet NW. of A. T. & S. F. Ry. Bailey No. 3716I.	S16779A	475	...	(g)	9/13/31	115	...	36	302	144	85	...	96	25	[c]90
				...	(g)	10/13/31	87 6				91					
					(g)	11/28/31	72		22	226	71	49	...	71	20	[c]34
S15860-L-21	Santa Ana River. NW. of Corona. Sampled from N. side of Rincon bridge (Prado Road crossing) over river 1,000 feet NW. of Santa Ana Canyon State Highway. Bailey No. 3720D.	S15860	460	...	(g)	9/13/31	88	...	...	...	87	...	...	...	...	...
				...	(g)	11/28/31	70	...	27	214	66	53	...	71	14	[c]40
S1952-J-19	Chino Creek Tributary. SW. of Chino. Sampled beside Carbon Canyon Road, 1.7 miles SW. of Pipe Line Road.	S1952	700	...	796	3/10/32	217	0 24	43	552	220	485	0	129	100	255

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S16777-K-21	Reynolds Slough on Mill Creek, tributary to Chino Creek. W. of Norco. Sampled at dam at S. end of Chino Gun Club duck lake 3,100 feet S. of McCarty Ave., 3,000 feet E. of Serrano Road.	S16777	510	.....	(g)	9/23/31	58	.....	.....	.....	14	.....	.....	.....	.....	.....
				.....	(g)	10/ 5/31	55	.....	.....	.....	21	.....	.....	.....	.....	.....
				.....	(g)	11/24/31	69	.....	29	329	28	35	.....	64	21	c46
S15850-L-21	Chino Creek, NW. of Prado. Sampled at U. S. G. S. gaging station, 100 feet downstream from Prado Road bridge. Discharge from U. S. G. S. unpublished records.	S15850	460	22	792	3/ 9/32	98 6	0 09	24	351	27	232	6	122	34	64
				2 1	921	4/20/32	87 6	0 18	.....	357	36	.....	.....	.....	.....	.....
				4 2	1010	5/19/32	97.5	0 17	28	396	27	177	6	114	29	74
				1 7	1052	6/16/32	93 2	0 12	.....	375	28	.....	.....	.....	.....	.....
				0 6	1167	7/14/32	66 1	0 06	31	308	34	49	1	70	18	53
				0 55	1290	8/15/32	64 2	0 08	.....	a302	37	.....	.....	.....	.....	.....
				0 47	1388	9/15/32	64 5	0 08	31	302	36	39	1	68	18	51
				0 65	1487	10/13/32	65 0	0 13	.....	302	36	.....	.....	.....	.....	.....
				5 9	1613	12/20/32	86 7	0 10	28	332	27	155	6	101	26	64
				44	1685	1/17/33	71 6	0 10	36	226	28	137	6	64	19	62
				12	1802	2/23/33	85 8	0 06	.....	332	23	.....	.....	.....	.....	.....
S15851-L-21	Santa Ana River. SW. of Prado. Sampled at U. S. G. S. gaging station, 1,350 feet downstream from A. T. & S. F. Ry. bridge, or 450 feet N. of Santa Ana Canyon State Highway near River Bank Camp. Bailey No. 3720N. Lab. Nos. 788, 1011 and 1387 were sampled from S. side of river. Lab. Nos. 789, 1012 and 1386 were sampled as composite across stream. Lab. Nos. 790, 1013 and 1385 were sampled from N. side of river. Discharge from W. S. P. No. 721 and U. S. G. S. unpublished records.	S15851	450	64	(g)	9/13/31	96	.....	37	277	101	75	.....	84	17	c77
				67	(g)	10/10/31	89	.....	32	259	99	69	.....	86	18	c62
				68	(g)	10/13/31	90 6	.....	.....	.....	93	.....	.....	.....	.....	.....
				146	(g)	11/28/31	67	.....	26	214	64	57	.....	71	15	c39
				129	788	3/ 9/32	79.9	0 11	31	290	80	65	6	84	22	61
				129	789	3/ 9/32	82 2	0 12	.....	299	73	.....	.....	.....	.....	.....
				129	790	3/ 9/32	84 9	0 11	28	311	62	119	4	93	27	63
				82	1011	5/19/32	77 8	0 22	35	262	85	61	2	75	19	67
				82	1012	5/19/32	77 8	0 18	.....	271	80	.....	.....	.....	.....	.....
				82	1013	5/19/32	78 7	0 16	33	278	75	72	6	78	20	64
				60	1385	9/15/32	78 0	0 15	38	229	87	61	6	62	20	67
				60	1386	9/15/32	79 9	0 12	.....	250	89	.....	.....	.....	.....	.....
				60	1387	9/15/32	80 0	0 14	36	247	91	63	6	71	19	67
				56	1486	10/13/32	76 6	0 16	.....	271	75	.....	.....	.....	.....	.....
S15822-L-20	Santa Ana River. SW of Prado. Sampled at Riverside-Orange County line in lower Santa Ana Canyon, 3 miles below Rincon bridge at Green River Camp. Lab. Nos. 793, 1014 and 1391 were sampled from S. bank of river. Lab. Nos. 794, 1015 and 1390 were sampled as composite across river. Lab. Nos. 795, 1016 and 1389 were sampled from N. bank of river. U. S. D. A. analysis on 9/15/31 is duplicate of D. W. R. Lab. No. 299.	S15822	410	370	(f)	3/ 2/19	.....	.....	23	a250	50	52	9	69	20	c35
				395	(f)	3/ 3/19	.....	.....	25	a256	50	50	0	66	18	c37
				120	(f)	5/12/19	.....	.....	34	a244	69	60	9	73	16	c60
				.....	(f)	May 1919	.....	.....	44	230	80	67	10	71	10	c80
				.....	(f)	Oct. 1919	.....	.....	34	153	12	77	2	37	11	c33
				70	(e)	6/ 8/30	.....	0 05	.....	a265	80	b93	4	76	.....	.....
				50	(e)	7/10/30	.....	0 05	.....	a221	62	b39	4	62	.....	.....
				35	(e)	8/ 7/30	.....	0 05	.....	272	107	b77	1	77	.....	.....
				49	(e)	9/11/30	.....	0 05	.....	a244	105	b74	6	74	.....	.....
				72	(e)	10/ 8/30	.....	0 01	.....	a247	103	b74	10	80	.....	.....
				86	(e)	11/12/30	.....	0 1	.....	271	88	b71	9	80	.....	.....
				53	(d)	9/15/31	82.6	0 17	37	262	91	64	9	74	19	c24
				53	299	9/15/31	88.5	0 17	32	a271	92	65	6	75	24	62
				64	426	10/13/31	80 0	0 11	34	271	89	59	6	76	21	66
				.....	(b)	10/13/31	89 4	.....	.....	.....	91	.....	.....	.....	.....	.....
				125	581	12/14/31	77 0	0 16	32	284	71	62	6	79	18	58
				190	626	1/15/32	75 9	0 13	.....	271	73	.....	.....	.....	.....	.....
				243	755	2/15/32	86 1	0.10	.....	293	69	.....	.....	.....	.....	.....
				141	793	3/ 9/32	82 3	0 08	.....	299	75	.....	.....	.....	.....	.....
				141	794	3/ 9/32	82 7	0 15	30	302	75	88	6	89	25	63
				141	795	3/ 9/32	82 9	0 12	.....	302	75	.....	.....	.....	.....	.....
				68	923	4/20/32	80 3	0 22	.....	271	89	.....	.....	.....	.....	.....
				77	1014	5/19/32	78 3	0 14	.....	265	82	.....	.....	.....	.....	.....
				77	1015	5/19/32	77 8	0 19	34	265	82	60	6	76	20	64
				77	1016	5/19/32	77 7	0 21	.....	265	82	.....	.....	.....	.....	.....
				64	1051	6/16/32	82 2	0 16	.....	a250	98	.....	.....	.....	.....	.....
				49	1166	7/14/32	82 4	0 19	.....	a241	99	.....	.....	.....	.....	.....
				49	1291	8/15/32	81 0	0 16	.....	a247	94	.....	.....	.....	.....	.....
				60	1389	9/15/32	78 1	0 31	.....	235	91	.....	.....	.....	.....	.....
				60	1390	9/15/32	78 9	0 13	37	238	87	66	6	68	21	67
				60	1391	9/15/32	78 5	0 14	.....	235	89	.....	.....	.....	.....	.....
				67	1488	10/13/32	77 5	0 20	.....	271	75	.....	.....	.....	.....	.....
				120	1584	12/13/32	80 6	0 14	33	278	75	69	7	78	21	63
				440	1684	1/17/33	73.5	0.12	36	220	76	71	7	68	18	64
				94	1803	2/23/33	78 3	0 10	.....	a281	69	.....	.....	.....	.....	.....

TABLE 22. SURFACE WATERS ABOVE LOWER CANYON OF SANTA ANA RIVER—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
S15812-L 20	Anaheim Water Co., canal intake in Lower Santa Ana Canyon. Sampled at intake from the N. side of Santa Ana River, 1.1 mile downstream from Riverside-Orange County line. O. C. F. C. D. gaging station 124. Occasional measurements only. Use: Irrigation.	S15812	395		(f)	Oct. 1918			39	[a]243	87	72	6	62	19	[c]69
					(f)	Oct. 1918			38	238	81	76	3	70	19	[c]70
					(f)	3/13/19			43	[a]180	63	70	5	58	12	[c]68
					(f)	7/14/19			42	226	89	78	18	63	18	[c]80
					(f)	Oct. 1919			41	222	87	78	16	62	17	[c]73
					(i)	3/ 8/29					69					
					(i)	4/15/29					71					
					(i)	6/17/29					92					
					(i)	8/21/29					95					
					(i)	10/29/29					82					
					(i)	12/19/29					90					
					(i)	1/13/30					75					
					(i)	2/14/30					74					
					(i)	3/ 5/30					70					
					(i)	4/15/30					80					
					29	6/ 6/31	82.9		38	253	96	72	2	73	21	77
S15762-L-19	Santa Ana Valley Irrigation Co., canal intake in lower Santa Ana Canyon. Sampled at intake from the S. side of Santa Ana River, 4.2 miles down stream from Riverside-Orange County Line. O. C. F. C. D. gaging station 123. Occasional measurements only. Use: Irrigation.	S15762	345		28	6/ 6/31	83.4		38	256	96	75	2	73	21	75
					80	6/19/31	81.4		39	238	101	72	0	67	24	78
					135	7/15/31	84.8		39	238	99	105	6	74	22	80
					226	8/13/31	80.4		38	[a]229	101	69	4	66	23	73
					300	9/15/31	86.8	0.12	36	[a]268	94	73	4	74	23	73

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Sulphate (SO_4) determined by turbidity method.
[c] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[d] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[e] Analysis by United States Geological Survey.
[f] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[g] Analysis by Edward S. Babcock and Sons, Riverside, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillibridge, et al), in the Superior Court of the State of California, in and for the County of Riverside.
[h] Analysis by Edward S. Babcock and Sons, Riverside, California.
[i] Analysis by Association Laboratory, Anaheim, California.

TABLE 23. SEWAGE EFFLUENT—SOUTH COASTAL BASIN

Number	Location and description	Location number	Average discharge in second feet computed from total yearly flow	Laboratory number	Date	Time of day	Specific electrical conductance (K x 10³ at 25° C)	Boron ppm	Per cent sodium Na x 100 / Ca+Mg+Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
R819-N-9	Los Angeles County Sanitation District Sewage Disposal Plant, Harbor City; 0.15 mile W. of Figueroa St., 0.20 mile N. of Lomita Blvd. Method of treatment; Imhoff tanks followed by treatment by the activated sludge process. Effluent chlorinated. Discharge into Nigger Slough, 4,000 feet above Alameda St. crossing. Discharge obtained from owner.	R819	15.5	(c)	7/30/30	.....	146	0.53	55	537	135	130	.....	73	26	[b]218
				(c)	7/30/30	.....	149	0.50	62	555	135	133	.....	74	27	[b]223
				(c)	9/ 5/30	.....	157	0.53	66	573	179	117	.....	72	26	[b]256
				(c)	10/ 1/30	.....	154	0.55	67	570	172	147	.....	72	24	[b]268
				(c)	11/ 1/30	.....	133	0.46	61	488	137	120	.....	73	24	[b]201
				(c)	12/ 1/30	.....	152	0.56	64	546	154	128	.....	73	26	[b]233
			18.8	(c)	1/ 9/31	.....	167	0.75	70	518	151	217	.....	62	24	[b]279
				(c)	2/ 7/31	.....	175	0.61	69	543	178	240	.....	68	30	[b]299
				(c)	3/ 3/31	.....	186	0.76	70	546	202	201	.....	69	27	[b]302
				(c)	3/31/31	.....	203	1.03	80	811	135	228	.....	52	23	[b]400
				(c)	4/ 2/31	1.00 a.m.	175	0.75	72	659	147	160	.....	62	25	[b]302
				(c)	4/ 2/31	5.00 a.m.	173	0.69	72	610	156	159	.....	59	25	[b]292
				(c)	4/ 2/31	9.00 a.m.	167	0.69	71	604	162	167	.....	63	25	[b]293
				(c)	4/ 2/31	1.00 p.m.	167	0.73	70	604	153	168	.....	63	25	[b]287
				(c)	4/ 2/31	5.00 p.m.	163	0.68	69	558	149	172	.....	65	24	[b]268
				(c)	4/ 2/31	9.00 p.m.	167	0.71	70	589	149	179	.....	63	25	[b]285
				(c)	5/12/31	3.00 p.m.	177	0.60	69	610	172	184	.....	71	27	[b]296
				(c)	6/ 2/31	.....	158	0.51	65	592	153	127	.....	70	28	[b]248
				(c)	7/ 1/31	.....	150	0.55	66	537	165	127	.....	70	24	[b]245
			20.2	(c)	10/27/32	.....	151	0.55	63	537	160	112	1	81	22	[b]225
				1594	12/14/32	Midnight	165	.....	.....	561	158	.....	.....	.....	.....	.....
				1595	12/15/32	6.00 a.m.	161	.....	.....	546	160	.....	.....	.....	.....	.....
				1596	12/15/32	Noon	157	0.52	59	540	151	85	0	69	26	187
				1597	12/15/32	6.00 p.m.	158	.....	.....	555	146	.....	.....	.....	.....	.....
				1598	12/15/32	Midnight	180	.....	.....	598	165	.....	.....	.....	.....	.....
				1599	12/16/32	6.00 a.m.	186	0.81	78	[a]747	142	146	0	45	21	320
R1668-K-13	City of Whittier Sewage Disposal Plant. SE. of Santa Fe Springs; 0.15 mile S. of Leffingwell Road, 0.1 mile E. of Leland St., 0.15 mile W. of Meyer Road. Sampled at outlet to creek. Method of treatment: Imhoff tanks, sprinkling filters and secondary tank. Used for irrigation on sewer farm and surplus discharged into creek S. of plant. Discharge for years 1929, 1930 and 1932 were estimated by the Division of Water Resources from water sales. Discharge for 1932 was estimated by City Engineer from eight months metered flow.	R1668	1.6	(c)	12/10/29	.....	118	0.24	51	375	135	72	.....	61	31	[b]133
			1.6	(c)	1/ 2/30	.....	91.4	0.23	35	262	67	65	.....	79	12	[b]61
				(c)	1/28/30	.....	96.3	0.35	48	247	99	60	.....	59	18	[b]94
			1.6	(c)	7/ 6/31	.....	96.8	1.49	48	143	78	55	210	70	14	[b]101
			1.5	1633	12/28/32	3.45 p.m.	81.8	0.33	.....	320	62	.....	.....	.....	.....	.....
				1634	12/29/32	7.00 a.m.	76.9	0.27	.....	183	66	.....	.....	.....	.....	.....
				1635	12/29/32	1.00 p.m.	113	0.30	49	275	146	59	35	70	16	105
				1636	12/29/32	3.45 p.m.	88.9	0.33	50	229	87	55	45	56	13	88
				1637	12/30/32	7.30 a.m.	72.3	0.29	37	223	39	53	45	55	15	54
R2881-G-12	Pasadena Sewage Disposal Plant. SE. of Alhambra; 0.55 mile N. of Valley Blvd., 1,000 feet W. of Ramona Drive (New Ave.). Method of treatment: Fine screening, followed by treatment by the activated sludge process. Effluent chlorinated. Sewage effluent discharged into Rio Hondo. Discharge obtained from Pasadena Water Department.	R2881	12.5	(c)	12/10/29	.....	78.4	0.34	49	159	91	44	.....	34	17	[b]68
				(c)	12/10/29	.....	77.2	0.34	48	159	92	40	.....	33	18	[b]66
			12.2	(c)	1/ 2/30	.....	77.3	0.35	54	214	82	40	.....	39	13	[b]83
				(c)	1/28/30	.....	85.9	0.35	52	195	114	51	.....	42	19	[b]88
			13.6	1600	12/15/32	7.00 a.m.	74.9	0.43	.....	186	84	.....	.....	.....	.....	.....
				1601	12/15/32	11.00 a.m.	70.4	0.41	.....	149	76	.....	.....	.....	.....	.....
				1602	12/15/32	3.00 p.m.	76.8	0.43	.....	174	78	.....	.....	.....	.....	.....
				1603	12/15/32	7.00 p.m.	75.9	0.50	.....	210	78	.....	.....	.....	.....	.....
				1604	12/15/32	11.00 p.m.	82.2	0.50	62	232	96	46	9	32	13	100
				1605	12/16/32	3.00 a.m.	79.3	.....	.....	232	87	.....	.....	.....	.....	.....
				1606	12/16/32	7.00 a.m.	75.7	.....	.....	198	87	.....	.....	.....	.....	.....
				1607	12/16/32	11.00 a.m.	70.3	0.45	58	159	73	36	45	29	13	82
R3204-H-18	City of Pomona Sewage Treatment Plant. W. of Pomona; 100 feet S. of S. P. R. R., 350 feet W. of Roselawn Ave. Method of treatment: Imhoff tanks followed by treatment by the activated sludge process. Effluent chlorinated. Used for irrigation near Walnut. Discharge obtained from City Engineer.	R3204	1.3	(c)	12/10/29	.....	79.7	1.39	66	226	105	32	.....	37	8	[b]110
				(c)	12/10/29	.....	83.4	1.25	67	237	103	30	.....	45	5	[b]127
			1.4	(c)	1/ 2/30	.....	82.4	0.99	59	171	103	36	.....	41	7	[b]88
				(c)	1/27/30	.....	78.9	0.95	44	140	92	38	.....	37	15	[b]60
				(c)	8/22/30	.....	70.3	2.84	53	174	69	29	.....	35	10	[b]65
				(c)	9/23/30	.....	82.6	0.27	50	134	103	32	.....	39	11	[b]66
				(c)	10/17/30	.....	82.2	0.31	61	180	108	15	.....	36	8	[b]88
			1.5	1619	12/22/32	7.00 a.m.	74.6	0.29	61	186	83	32	56	37	9	95
				1620	12/22/32	9.00 a.m.	72.9	0.27	.....	174	82	.....	.....	.....	.....	.....
				1621	12/22/32	Noon	67.3	0.29	60	143	76	30	70	37	9	90
				1622	12/22/32	4.00 p.m.	71.2	0.27	.....	119	80	.....	.....	.....	.....	.....
				1623	12/23/32	7.00 a.m.	76.6	0.28	.....	156	98	.....	.....	.....	.....	.....
				1624	12/23/32	9.00 a.m.	78.1	0.27	62	156	98	32	71	39	10	104
				1625	12/23/32	Noon	76.6	0.29	.....	149	91	.....	.....	.....	.....	.....
				1626	12/23/32	4.00 p.m.	75.4	0.28	.....	122	87	.....	.....	.....	.....	.....
				1627	12/27/32	11.45 a.m.	66.7	0.28	53	107	59	28	107	41	11	75
R13260-P-15	Orange County Cities Joint Outfall Sewer System. SW. of Santa Ana; 700 feet S. of Ellis Ave., 100 feet W. of Vernon St., 50 feet W. of west levee of Santa Ana River. Sampled at head of outfall to ocean, 100 feet S. of screening plant. Method of treatment: Pre-chlorination and fine screening. Effluent discharged into ocean. Discharge obtained from O. E. Steward, Anaheim, California. Waste Water Disposal Co. discharges into sewer system at Orangethorpe and Euclid Avenues. For analysis see Table 24, "Industrial Waste Water in South Coastal Basin."	R13260	7.0	1641	12/27/32	3.45 p.m.	312	2.45	.....	589	690	.....	.....	.....	.....	.....
				1642	12/28/32	7.30 a.m.	481	4.56	.....	601	1,264	.....	.....	.....	.....	.....
				1643	12/28/32	Noon	395	3.52	81	570	976	49	0	77	32	635
				1644	12/28/32	3.55 p.m.	261	1.88	74	586	517	56	0	70	30	381
				1645	12/29/32	7.30 a.m.	533	5.30	.....	604	1,448	.....	.....	.....	.....	.....
				1646	12/29/32	Noon	340	2.97	.....	509	809	.....	.....	.....	.....	.....
				1647	12/29/32	3.40 p.m.	284	2.11	.....	546	619	.....	.....	.....	.....	.....
				1648	12/30/32	10.00 a.m.	570	5.74	86	583	1,562	55	0	90	44	1,035

Number	Location and description	Location number	Average discharge in second feet computed from total yearly flow	Laboratory number	Date	Time of day	Specific electrical conductance ($K \times 10^6$ at 25° C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
R15921-L-22	City of Corona Sewage Disposal Plant. N. of Corona; 900 feet NE. of A. T. & S. F. Ry., 750 feet NW. of Cota St., N. of Temescal Wash, W. of Powder Hill. Method of treatment: Imhoff tank, sprinkling filters and sand beds. Lab. No. 1638 was sampled from sewage before entering filter beds and Lab. No. 1639 was from settled sewage. Effluent discharged into gravel beds on N. side of Temescal Creek Wash. Discharge estimated by City Engineer on the basis that the quantity of sewage equals the municipal water consumption.	R15921	0.8	1638	12/30/32	Noon	102	0.80	21	302	67	95	18	108	13	40
				1639	12/30/32	Noon	128	1.31	59	543	75	65	0	54	12	89
R16982-J-25	City of Riverside Sewage Disposal Farm. W. of Riverside; 4,200 feet east along Sewer Farm Road, which is 1½ miles SW. along Riverside Drive from Mission Blvd. Method of treatment: Settling in earthen basins and land disposal. Used for irrigation on sewer farms and surplus disposed of on the land. Discharge estimated by City Engineer.	R16982	3.6	1719	2/ 3/33	4.00 p.m.	88.2	2.80	56	378	77	29	0	26	69	111
R18002-H-27	City of San Bernardino Sewage Treatment Plant. S. of San Bernardino; 925 feet W. of E St., 2,400 feet N. of Colton Ave. Sampled at effluent weir on final settling tank. Method of treatment: Pre-chlorination, Imhoff tanks, sprinkling filters and final clarifier. Effluent chlorinated. Discharged into Warm Creek and diverted by Riverside Water Co. canal. Discharge obtained from City Engineer.	R18002	----------	(c)	2/28/29	----------	64.3	0.16	47	262	48	37	--------	54	8	[b]70
				(c)	3/ 6/29	----------	58.7	0.09	40	226	48	36	------	53	10	[b]53
				(c)	3/13/29	----------	72.8	0.21	42	265	64	28	--------	56	13	[b]64
			4.7	(d)	1/ 3/30	----------	----------	----------	----------	100	67	----------	----------	----------	----------	----------
				(c)	1/ 4/30	----------	66.2	0.30	40	195	69	35	--------	51	12	[b]54
				(c)	9/30/30	----------	85.6	0.15	56	253	101	49	------	52	11	[b]104
			4.9	(c)	1/ 7/31	8.20 a.m.	71.1	0.16	47	256	60	37	--------	54	10	[b]72
			6.3	658	1/15/32	3.45 p.m.	70.7	0.23	----------	140	69	----------	----------	----------	----------	----------
				1640	12/30/32	2.30 p.m.	71.6	0.33	41	214	59	36	22	51	13	57
			----------	1716	2/ 3/33	2.30 p.m.	81.7	0.26	38	241	73	37	14	59	16	61
R18090-G-29	City of Redlands Sewage Disposal Plant. NW. of Redlands; 0.5 mile S. of City Creek Road (3d St.), 700 feet E. of Palm Ave. Sampled from settled sewage. Method of treatment: Imhoff tanks, followed by disposal on sand beds. Effluent discharged into sand beds on N. side of Santa Ana River Wash. Discharge obtained from City Engineer.	R18090	1.2	1717	2/ 1/33	2.30 p.m.	99.7	4.76	35	418	87	20	0	44	13	17
			1.2	1718	2/ 3/33	2.00 p.m.	91.5	10.64	38	418	64	20	0	40	12	78

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in millgram equivalents and calculated to equivalent quantity of Sodium.
[c] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[d] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.

R3894-F-8, LOS ANGELES SEWAGE RECLAMATION PLANT

Owner—City of Los Angeles.
Location and description—In Griffith Park, one mile W. of Riverside Drive Bridge over Los Angeles River, 350 feet S. of W. levee of Los Angeles River, S. of Burbank.
Ground elevation—475, from U. S. G. S. topog.
Source of information—R. F. Goudey, Sanitary Engineer, Department of Water and Power, Los Angeles, California.
Location number—R3894.

Constituents expressed in parts per million according to United States Public Health Association Standards	Average from May 12, 1930 to Feb. 1, 1933	Averages for: Maximum month	Averages for: Minimum month	Maximum day	Minimum day
Alkalinity as $CaCO_3$	240	281	133	664	101
Chloride	85	162	65	221	46
Sulphate	125	163	71	210	53
Nitrates	3.0	12.3	0	42.0	0
Calcium (10 analyses)	86	----------	----------	----------	----------
Magnesium (10 analyses)	30	----------	----------	----------	----------
Color	33	55	11	40	5
Turbidity	9	7.0	3.3	50	5
Suspended solids	15	25.0	9.0	88	0
Dissolved Oxygen	4.25	6.1	2.8	8.8	0.9
B. O. D. (5 day)	3.7	11.3	1.1	19.8	0
Oxygen consumed	10.0	16.9	4.3	25.8	2.1
pH	7.15	7.5	6.9	7.6	6.6

Method of treatment: Preliminary clarification, treatment by activated sludge process, final chlorination, one-third of water filtered and final sand beds.

Remarks: The plant has a capacity of 200,000 g.p.d. and the effluent is disposed of in spreading beds of natural sand adjacent to the river and 1½ miles above one of the city's main infiltration galleries.

The above table gives the result of some 25,000 analyses, all of which are of samples composited usually during a 24-hour period, with the exception of values given for calcium and magnesium, which are an average determined from ten samples.

TABLE 24. INDUSTRIAL WASTE WATERS—SOUTH COASTAL BASIN

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10³ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million): Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
W835-M-9	Union Oil Co. of California. Waste water outlet. N. of Wilmington. Sampled from outlet discharging into Nigger Slough, 1.02 miles N. of Carson St., 0.21 mile W. of Avalon Blvd., 100 feet N. of W-835A-M-9. Waste water from oil refinery.	W835	10	-------	(d)	3/ 5/32	-------	--	90	148	9,680	58	.	296	147	c5,768
					(d)	9/13/32	-------	------	.	. .	13,440	90	------	.	------	------
W835A-M-9	Shell Oil Co. of California. Waste water outlet. N. of Wilmington. Sampled from outlet discharging into Nigger Slough, 1.0 mile N. of Carson St., 0.20 mile W. of Avalon Blvd., 100 feet S. of W835-M-9. Waste water from oil refinery.	W835A	10	---------	(d)	3/ 5/32	- - -	- ---	92	24	464	807	--------	26	12	c641
					(d)	9/14/32	--------	--------	------	-------	360	501	--------	- ------	---	-
W869-N-10	Shell Oil Co. of California. Waste water flume. N. of Wilmingmington. Sampled from flume discharging into Nigger Slough, 250 feet N. of Willow St., 250 feet W. of Alameda St., 50 feet W. of P. E. Ry. Waste water from oil refinery.	W869	20	-- ----	(d)	3/ 5/32	--------	--------	90	506	8,330	96	--------	285	139	c5,052
W879-N-10	Associated Oil Co. Waste water outlet. N. of Wilmington. Sampled from outlet discharging into Nigger Slough, 0.3 mile E. of Alameda St., 150 feet S. of Willow St. Waste water from oil refinery.	W879	15	---------	(d)	4/12/32	--------	--------	66	183	29	2	---	19	4	c58
W912-L-10	Richfield Oil Co. Waste water outlet. SE. of Compton. Sampled from 10-inch pipe discharging into the E. side of the Los Angeles River, 60 feet S. of Artesia St. Waste water from oil refinery.	W912	55	---------	(d)	1/20/32	---	- -	82	156	440	195	- ------	51	10	c360
					(d)	3/11/32	--------	--- ---	73	188	162	82	--------	40	6	c157
					(d)	3/23/32	--------	--------	89	162	380	41	--------	27	3	c289
					(d)	9/ 1/32	- ----	--------	-- --	. -	170	28	--	- - ---	-- --	---- ---
W1353-J-7	Pan California Oil Co., Robert Bromberg, Receiver. Inglewood; 165 feet S. of Regent Street., 453 feet W. of Prairie St. Oil well waste water.	W1353	150	------	1295	8/30/32	5,330	51 2		a554	19,347	. .	- --- .	--------	- -----	-- --
W1364-J-8	Wilshire Annex Oil Co., storage tank. Inglewood. Sampled from bleeder on storage tank for oil well waste water, 905 feet S. of Manchester St., 1,665 feet W. of 12th Ave.	W1364	190		1296	8/30/32	5,125	60 0		637	18,105	-		-- - --	------	------- -
W1514-J-10	Los Angeles Chemical Co. Waste water outlet. Southgate. Sampled from outlet discharging into gully along U. P. R. R. at SW. corner of Salt Lake and Cecelia Aves. Waste water from plant.	W1514	122	-- - -	(d)	6/29/32	--------	---- -	-------	------ .	350	244	--------	--------	--------	--------
W1514A-J-10	A. R. Maas Chemical Co. Waste water outlet. Southgate. Sampled from outlet discharging into gully along U. P. R. R. at SW. corner of Salt Lake and Ardine Aves. Waste water from plant.	W1514A	117	---------	(d)	6/29/32	--------	--------	--------	--------	150	10	--------	--------	--------	---- ---
W1524-J-11	Rio Grande Oil Co. Waste water outlet. E. of Southgate. Sampled from outlet discharging into the E. side of the Los Angeles River, 600 feet S. of the S. P. R. R. Waste water from oil refinery.	W1524	102	--------	(d)	10/26/32	-- - -	---	43	225	40	34	--------	44	12	c55
W1636-K-13	George F. Getty Co. Waste water sump. SE. of Santa Fe Springs. Sampled from sump hole at intersection of Lakeland Road and A. T. & S. F. Ry. main line. Oil well waste water from Santa Fe Springs oil field.	W1636	155	---------	1345	9/ 5/32	942	9 40	94	369	2,929	32	0	55	26	1,893
W1829-L-16	The Petroleum Co., Dehydrater. SE. of Brea. Sampled from bleeder on dehydrater, 500 feet S. of Golden Ave., 1,640 feet W. of Brea Vista St. Waste water from all producing oil wells on owner's field.	W1829	300	---------	1293	9/ 1/32	1,838	8.96	--------	a2,378	5,103	--------	--------	---- --	--------	--------
W1857-K-17	Chanslor Canfield Midway Oil Co., Gathering Tank. Olinda. Sampled from bleeder from gathering tank, 1,500 feet W. and 200 feet N. of E¼ corner, Sec. 8, T.3 S., R.9 W., S. B. B. & M., 300 feet N. of Carbon Canyon Road. Waste water from all producing oil wells on owner's field.	W1857	520	---------	1292	9/ 1/32	1,786	16 2	--------	543	5,547	--------	--------	--------	--------	--------
W2778-I-10	General Petroleum Corp. of California. Waste water outlet. Vernon. Sampled from five 3-inch to 8-inch drains discharging into the W. side of the Los Angeles River W. of Soto St. bridge. Waste water from plant.	W2778	205	-- -------	(d)	6/15/32	--------	---- ---	93	1,522	105	3	------ .	29	7	c600
					(d)	12/17/32	--------	--------	83	618	88	48	--	24	14	c260
W2778A-I-10	Atchison, Topeka & Santa Fe Ry. Waste water outlet. Los Angeles. Sampled from 6-inch pipe discharging into the W. side of the Los Angeles River, 100 feet N. of U. P. R. R., 350 feet N. of Washington (23d) St. Waste water.	W2778A	220	---------	(d)	6/15/32	--------	--------	97	215	224	378	-------	7	2	c395
					(d)	12/17/32	--------	--------	96	152	270	327	- ---	8	3	c373

TABLE 24. INDUSTRIAL WASTE WATERS—SOUTH COASTAL BASIN—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁵ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca + Mg + Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
W2778B-I-10	Musto-Keenman Co. Waste water outlet. Los Angeles. Sampled from outlet discharging into the E. side of the Los Angeles River, 1 block S. of Washington (23d) St. Waste water from plant.	W2778B	215	.....	(d)	12/17/32	.....	.....	30	339	308	105	.....	142	55	c112
W2789-I-10	Stauffer Chemical Co. Waste water outlet. Vernon. Sampled from 20-inch clay pipe discharging into the NE. side of the Los Angeles River, 0.25 mile E. of Soto St. Waste water from plant.	W2789	190	.....	(d)	6/15/32	.....	.....	59	356	58	438	.....	107	19	c223
					(d)	12/17/32	.....	.....	.....	.....	280	4,404	.....	201	59	.....
W2789A-I-10	Stauffer Chemical Co. Waste water sump. Vernon. Sampled from sump which discharges into the N. side of the Los Angeles River, 0.4 mile W. of Downey Road, 600 feet N. of river. Waste water from Pacific Hard Rubber Co. and West Coast Kalsomine Co. plants.	W2789A	190	.....	(d)	6/15/32	.....	.....	94	976	850	1,729	.....	39	35	c1,630
					(d)	12/17/32	.....	.....	90	1,022	316	252	.....	23	22	c641
W2789B-I-10	Fibreboard Products Co. Waste water outlet. Vernon. Sampled from outlet discharging into the SW. side of the Los Angeles River, 600 feet E. of Soto St. Waste water from plant.	W2789B	200	.....	(d)	6/15/32	.....	.....	44	196	37	236	.....	74	15	c97
					(d)	12/17/32	.....	.....	43	236	32	137	.....	63	15	c75
W2799-I-10	Filtrol Co. Waste water sump. Vernon. Sampled from sump 0.2 miles W. of Downey Road, 200 feet N. of Los Angeles River. Waste water from plant.	W2799	185	.....	(d)	6/15/32	.....	.....	62	.....	0	10,287	.....	596	101	c1,424
					(d)	12/17/32	.....	.....	.....	.....	560	12,315	.....	534	180	.....
W2952-H-13	Pacific R. & H. Chemical Co. Waste water sump. El Monte. Sampled from sump discharging into the E. side of the Rio Hondo, 600 feet S. of the P. E. Ry. Waste water from plant.	W2952	270	.....	(d)	6/27/32	.....	.....	76	556	90	3,704	.....	388	21	c1,534
W13202-Q-14	The Texas Co., Brown lease. Huntington Beach. Waste water from oil wells being wasted in tank number 4117—T. T. Co. P. D.—1,178. 300 feet S. of Quincy St. and 300 feet E. of Delaware Ave.	W13202	35	.....	452	10/19/31	4,685	65.4	.....	1,613	17,661	.....	.....	.....	.....	.....
					453	10/23/31	4,675	70.9	89	1,613	17,484	0	0	368	410	10,043
					454	10/23/31	4,675	60.5	.....	1,607	17,661	.....	.....	.....	.....	.....
					(e)	10/23/31	4,722	63.8	91	1,574	17,670	0	0	368	353	c10,954
W15604-M-16	Waste Water Disposal Co. Outlet sump. E. of Fullerton. Sampled from sump, 200 feet S. of Orangethorpe Ave., 600 feet W. of Cypress Ave. Waste water is collected at outlet sump from Richfield, Olinda, Brea Canyon, and East Coyote oil fields. Sump waters are treated periodically by a small small amount of caustic soda. Discharge varies from 200,000 to 400,000, averaging 280,000 gallons per day (0.43 second feet) and is disposed of in the Orange County Cities Joint Outfall Sewer System at the corner of Euclid and Orangethorpe Avenues. June, 1927, analysis is a weighted average of all districts contributing water to the outlet sump.	W15604	190	.....	(f)	June, 1927	.....	.....	98	a836	4,841	72	.....	130	84	c3,191
					(f)	10/15/28	.....	.....	99	a1,084	5,105	111	.....	85	73	c3,536
					(g)	3/26/32	.....	.....	.....	977	5,672	b4	.....	.....	.....	.....
					(g)	5/28/32	.....	.....	.....	1,084	6,310	b28	.....	.....	.....	.....
					(g)	9/24/32	.....	.....	.....	872	6,310	b5	.....	.....	.....	.....
					(g)	10/29/32	.....	.....	.....	884	5,459	b20	.....	.....	.....	.....
					(g)	11/26/32	.....	.....	.....	881	5,511	b19	.....	.....	.....	.....
					(g)	12/31/32	.....	.....	.....	a870	5,666	b22	.....	.....	.....	.....
W15652-L-17	Chanslor Canfield Midway Oil Co., Dehydrater. Atwood. Sampled from bleeder on dehydrater, 650 feet E. of Linda Vista Ave., 250 feet S. of Pine Street. Waste water from all producing oil wells of owner.	W15652	260	.....	1294	9/ 1/32	1,333	29.2	.....	a351	4,127	.....	.....	.....	.....	.....

a Includes small equivalent quantity of Carbonate (CO_3).
b Sulphate (SO_4) determined by turbidity method.
c Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
d Analysis by City of Long Beach, Engineering Laboratory.
e Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
f Analysis by Union Oil Co. of California.
g Analysis by Waste Water Disposal Co., Fullerton, California.

TABLE 25. PACIFIC OCEAN WATER ANALYSIS

	Laboratory number	Date	Specific electrical conductance (K x 10[5] at 25° C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million)						
						Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
HUNTINGTON BEACH. Sampled from Municipal Pier	44	6/13/31	5,602 6	-	79	[a]143	19,614	2,568	0	414	1,259	10,773
LONG BEACH. Sampled from Pine Ave. Pier	([c])	9/ 3/30	-	-	78	241	18,550	2,655	-	410	1,269	[b]10,313
EL SEGUNDO. Sampled from Standard Oil Co. Pier	([d])	April 1928	-	-	78	132	19,904	2,755	-	433	1,351	[b]11,047
HOLLYWOOD BEACH. Sampled opposite Ocean Drive and Oxnard Road intersection	([e])	6/26/31	-	4 52	78	155	18,824	2,657		471	1,256	[b]10,918
VENTURA. Sampled opposite State Highway underpass at S. P. R. R., W. of Ventura	([e])	1/ 1/29	5,040	1 85	82	134	18,852	2,353		428	1,027	[b]10,964
	([e])	1/17/29	-	1 92		159	-	-				
	([e])	3/11/29	-	2 83			-	-	-		-	
	([e])	3/16/29	-	2 76		-	-	-		-	-	
	([e])	3/28/29		1 31		-	-	-			-	
	([e])	4/ 2/29	-	3 60		-	-	-				
	([e])	5/ 7/29	-	2 23	79	146	19,174	2,659	-	433	1,265	[b]10,870
	([e])	5/18/29	-	3 36		-	-	-	-			
	([e])	6/ 4/29		3 44	79	143	19,061	2,603	-	429	1,149	[b]10,784
	([e])	6/11/20	-	3 43	79	152	18,784	2,582	-	430	1,248	[b]10,615
	([e])	7/ 2/29	-	4 34	79	146	19,139	2,637	-	432	1,249	[b]10,860
	([e])	7/30/29		4 30	79	155	19,078	2,627		429	1,266	[b]10,798
	([e])	8/27/29	-	4 04	79	152	18,313	2,486	-	425	1,223	[b]10,319
	([e])	6/14/30	-	3 73	79	146	18,929	2,650	-	444	1,263	[b]10,697
SANTA BARBARA. Sample from Municipal Pier	([e])	2/19/30		3 80	79	149	19,065	2,602	-	432	1,253	[b]10,796

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Analysis by City of Long Beach, Engineering Laboratory.
[d] Analysis by S. R. Mitchell, Consulting Chemist, Los Angeles.
[e] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.

TABLE 26. SPRINGS, LAKES, AND SUBSOIL WATERS ABOVE LOWER CANYON OF THE SANTA ANA RIVER

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium Na x 100 / Ca + Mg + Na	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
	SPRINGS AND LAKES															
S13852-Q-26	Lake Elsinore. Elsinore. Sampled from NE. side of lake at Aloha Beach Club pier. Natural lake.	S13852	1,245	.....	(d)	8/23/28	342	3 0	94	439	721	148	.....	39	(c)	[b]659
					(d)	11/ 4/28	354	1 44	99	555	612	172	.....	2	(c)	[b]686
					(d)	9/13/31	661	2 73	96	1,315	1,456	258	0	11	27	[b]1,499
					(d)	11/14/31	697	2 71	97	1,412	1,526	276	0	2	25	[b]1,604
					(d)	4/ 3/32	540	2 03	95	1,159	1,172	206	0	13	25	[b]1,233
S16124-M-26	R. H. Raphael Realty Co., Mockingbird Spring. S. of Arlington; 550 feet E. and 1,770 feet S. of N¼ corner of Sec. 2, T.4 S., R.5 W., S. B. B. & M. In upper end of Mockingbird Canyon. Use: Irrigation.	S16124	1,410	.....	(e)	8/15/16	.....	.....	.....	[a]121	168	.....	21	.....	.....	.....
					757	3/ 6/32	78 5	0 15	49	229	115	37	0	45	22	89
S16136-M-26	A. D. Randall, spring. S. of Riverside; 660 feet W. of S.E. corner and on S. line of Sec. 11, T.4 S., R.5 W., S. B. B. & M. In Cajalco Canyon. Use: Domestic and irrigation.	S16136	1,550	.....	(e)	Aug., 1930	.....	.....	22	207	60	41	.....	60	20	[b]30
S16138-N-26	Henry J. Smith, Gavilan Spring. S. of Riverside. On S. line and 600 feet E. of the SW. corner of Sec. 13, T.4 S., R.5 W., S. B. B. & M. In Caljalco Canyon. Use: Irrigation.	S16138	1,900	.....	(e)	2/21/30	.....	.....	.....	410	225	.....	.....	.....	.....	.....
S16147-M-26	Henry J. Smith, Arlington Tunnel. S. of Riverside; tunnel 2,600 feet long, 7′ x 7′ opening and practically in solid rock. First 150 feet from mouth is timbered. General direction S. 1,000 feet, then SE. Caved in at 1,800 feet. Mouth is 700 feet W. and 200 feet S. of the center of Sec. 13, T.4 S., R.5 W., S. B. B. & M. In Cajalco Canyon. Use: Irrigation.	S16147	1,600	.....	(e)	12/23/19	.....	.....	39	366	135	38	4	80	30	[b]96
					(e)	2/21/30	.....	.....	.....	387	166	.....	.....	.....	.....	.....
					(d)	4/ 3/33	114	0 18	29	366	160	84	Tr.	104	45	75
S16156A-M-27	Spring. S. of Riverside. Sampled from seepage on S. bank of Cajalco Creek, 900 feet S. of the center of Sec. 7, T.4 S., R.4 W., S. B. B. & M. In Cajalco Canyon.	S16156A	1,545	.....	(d)	4/ 3/33	403	0 17	51	421	914	426	1	214	117	483
S16157-M-27	Spriog. S. of Riverside. Sampled from spring on Mosgrove and Winsor property in SW¼ of NW¼, Sec. 18, T.4 S., R.4 W., S. B. B. & M. In Cajalco Canyon.	S16157	1,600	.....	(d)	4/ 3/33	33 6	0 09	46	137	34	12	1	26	10	35
S16178-M-27	Spring. S. of Riverside. Sampled from one of several springs, on E. side of Cajalco Canyoo, S. of Winsor and Mosgrove Ranch house, about middle of S. line of SW¼, Sec. 17, T.4 S., R.4 W., S. B. B. & M.	S16178	1,900	.....	(d)	4/ 3/33	63 5	0 14	22	274	52	38	1	82	18	32
S16837-K-22	Lake Norco. SW. of Norco. Sampled at S. end of lake. Bailey No. 3712A.	S16827	640	.....	(f)	11/24/31	83	.....	62	149	135	51	.....	33	17	[b]97
S16934-J-24	W. J. Hole, reservoir. N. of Arlington; 800 feet W. of Pedley Road, on S. side of Jurupa Ave., extended. Stored water for irrigation.	S16934	720	.....	(e)	1/19/20	.....	.....	52	292	226	90	2	89	23	[b]155
S16983-J-25	Water Cress Spring. Riverside. On Santa Ana River, S. bank, at N. projection of Streeter Ave.	S16983	720	.....	899	4/ 7/32	86 6	0 17	39	278	105	32	14	82	16	81
S17054-J-27	C. W. Benedict, spring. S. of Riverside. On E. side of and near bottom of Tequesquite Arroyo, 0.4 mile NE. of Woodcrest Road, 200 feet NW. of Benedict Ave. Use: Domestic.	S17054	960	.....	938	5/14/32	116	0 18	25	204	211	78	39	97	52	69
S17093-J-27	J. F. Poarch, mountain spring. E. of Riverside; in NE¼ of NW¼ of SE¼ of Sec. 28, T.2 S., R.4 W., S. B. B. & M. Use: Irrigation.	S17093	1,700	.....	(e)	Feb., 1929	.....	.....	.....	107	50	.....	.....	.....	.....	.....
S17094-J-27	Spring on bottom of canyon SE. of Riverside, 0.75 mile N. of A. T. & S. F. Ry. crossing on Perris Highway near Box Springs, and 100 feet W. of R. R. tracks. Use: Domestic.	S17094	1,460	.....	933	5/12/32	47 4	0 08	44	82	75	12	18	26	15	46
S18821-E-28	Arrowhead Springs Hotel. Arrowhead steam caves. Arrowhead Springs. In Waterman Canyon, 600 feet E. of Arrowhead Highway, 1,100 feet N. of road to hotel, or 500 feet W. and 900 feet N. of center of Sec. 11, T.1 N., R.4 W., S. B. B. & M. Use: Steam baths. Discharge estimated by U. S. D. A. at time of sampling.	S18821	1,900	0.02	(d)	3/12/30	125	2 06	79	104	51	419	.....	39	6	[b]216
					213	8/12/31	163 3	2 94	86	[a]88	84	545	1	32	7	303
S18830-E-28	Arrowhead Springs Hotel, Palm Spring. Arrowhead Springs; 510 feet N. and 480 feet E. of the W¼ corner, Sec. 12, T.1 N., R.4 W., S. B. B. & M. NE. of hotel. Spring formerly natural, now hole bored to 115 feet, with no casing below 13 feet, to increase supply. Discharge estimated by U. S. D.A. at time of sampling.	S18830	2,050	0 07	(d)	3/12/30	140	2 35	85	92	66	452	.....	35	2	[b]249

TABLE 26. SPRINGS, LAKES, AND SUBSOIL WATERS ABOVE LOWER CANYON OF THE SANTA ANA RIVER—Continued

Number	Location and description	Location number	Elevation of ground	Discharge in second-feet	Laboratory number	Date	Specific electrical conductance (K x 10⁶ at 25°C)	Boron ppm	Per cent sodium $\frac{Na \times 100}{Ca+Mg+Na}$	Constituents (parts per million) Bicarbonate radicle (HCO_3)	Chloride radicle (Cl)	Sulphate radicle (SO_4)	Nitrate radicle (NO_3)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)
	SPRINGS AND LAKES—Continued															
S18831A-E-28	Arrowhead Springs Hotel, Perrygal Spring. Arrowhead Springs; 420 feet N. and 680 feet W. of the E¼ corner, Sec. 11, T.1 N., R.4 W., S. B. B. & M. NW. of hotel. Discharge estimated by U. S. D. A. at time of sampling.	S18831A	1,950	0.02	(d)	3/12/30	149	2.64	87	82	73	492	-------	29	4	b272
S18831B-E-28	Arrowhead Springs Hotel, Granite Spring. Arrowhead Springs; 140 feet N. and 1,050 feet W. of the E¼ corner, Sec. 11, T.1 N., R.4 W., S. B. B. & M. NW. of hotel. Discharge estimated by U. S. D. A. at time of sampling.	S18831	1,900	0.06	(d)	3/12/30	152	2.64	88	79	69	498	-------	26	4	b276
S18842-E-28	Lady Margaret Sharp, Warm Spring. NE. of San Bernardino; 1,700 feet N. of 40th St. (Willow Nook Road), 600 feet W. of Mountain Ave., extended, 100 feet N. of swimming pool at Lady Sharp's house. Use: Swimming pool and irrigation. Water rises in bottom and sides of 6-foot deep hole.	S18842	1,560	-------	1424	9/22/32	36.0	0.44	60	125	16	37	1	21	5	51
S19027-G-32	Bath Tub Spring. NE. of Redlands. N. of mouth of Warm Spring Canyon on E. side of Santa Ana River, near San Bernardino Baseline. Spring flows 0.1 miners inch at temperature of 60° C.	S19027	2,200	-------	(d)	4/12/31	128	0.42	78	43	11	542	-------	54	0	b221
S19416-C-23	Miller Hot Spring. NW. of San Bernardino. In picnic ground N. of Lytle Creek Road, 500 feet above caretaker's house at Southern California Edison Co., Ltd., intake. Use: Domestic. Casing: 30-inch concrete well.	S19416	2,950	-------	(d)	9/24/32	53.1	0.80	87	98	28	87	0	8	2	b84
S19421-C-24	Flying W. Spring. W. of Cozy Dell; 200 feet S. of Lone Pine Canyon Road on San Andreas Fault, or 200 feet S. and 2,600 feet W. of the NE. corner, Sec. 11, T.2 N., R.6 W., S. B. B. & M. Discharge from W. P. Rowe.	S19421	2,950	0.02	(d)	11/19/32	99.2	0.08	15	430	17	214	Tr.	121	50	b42
S19432-C-24	Lost Lake, near Keenbrook. Sampled at W. landing on N. side of lake on center section line, 1,450 feet E. of W¼ corner, Sec. 12, T.2 N., R.6 W., S. B. B. & M. Elevation of water surface 2,760.4. Lake is formed by movement of water along San Andreas fault.	S19432	2,760	-------	(d)	10/19/32	94.1	0.11	10	357	12	239	Tr.	125	46	b25
S19952-D-34	Big Bear Lake. NE. of San Bernardino. Sampled near lower end of lake. Gage read 45 at time of sampling. Stored water for irrigation.	S19952	6,710	-------	(d)	3/28/31	24.5	0.01	12	137	Tr.	10	-------	26	11	b7
	SUBSOIL WATERS															
S15981-L-23	W. J. Hole, Arlington drain outlet. SW. of Arlington. Sampled at outlet of 24-inch concrete pipe, 100 feet N. of A. T. & S. F. Ry., 1 mile W. of Buchanan St. Use: Irrigation. Drains subsoil waters from vicinity of Arlington W. of Van Buren St.	S15981	670	-------	1213	7/28/32	127	0.24	47	308	192	97	23	83	32	138
					1301	9/ 1/32	137	0.26	48	317	224	91	14	84	41	160
					1449	10/ 4/32	108	0.22	39	262	151	83	13	84	30	99
					1498	10/31/32	174	0.26	47	329	305	119	18	108	50	191
					1557	12/ 3/32	175	0.37	-------	348	311	-------	-------	-------	-------	-------
					1630	1/ 3/33	147	0.27	46	329	247	108	22	96	42	162
					1748	2/ 7/33	158	0.30	-------	327	273	-------	-------	-------	-------	-------
S16000-L-24	Tile drain standpipe. SW. of Arlington; 0.25 mile SW. of Pierce St., 785 feet NW. of Magnolia Ave. Standpipe is 45 feet S. of Twin Buttes Water Co. Plant 1. Use: Irrigation. Bailey No. 3622F.	S16000	690	-------	(f)	8/ 5/28	-------	-------	41	281	295	103	-------	109	41	b142
					(f)	9/20/31	234	-------	43	344	419	158	-------	126	66	b206
					(f)	10/ 2/31	167	-------	44	314	266	120	-------	102	41	b154
					(f)	11/30/31	169	-------	41	296	272	109	-------	100	45	b138
S16825-K-22	Fuller Ranch, drainage ditch. W. of Norco. Sampled 0.2 mile E. of Harrison Ave., extended, 600 feet S. of Chandler St. Drainage flows into Santa Ana River.	S16825	580	-------	1788	2/23/33	64.5	0.02	25	302	38	29	5	75	18	41
S16908-K-24	Southern California Junior College, drain. NW. of Arlington. Sampled at Schuyler Ave., 400 feet northeasterly from Kaselback Ave.	S16908	-------	-------	(e)	Dec., 1930	-------	-------	-------	340	740	-------	-------	-------	-------	-------
S16969-K-25	Orchard surface drainage. S. of Arlington; 600 feet NW. of Victoria Ave., 10 feet SW. of Gibson Street. Sample from discharge of 1.5-inch drain pipe.	S16969	880	-------	1696	1/30/33	21.3	0.12	24	64	16	11	Tr.	11	6	8

[a] Includes small equivalent quantity of Carbonate (CO_3).
[b] Alkaline bases estimated by difference between sum of acid radicles and sum of Calcium and Magnesium in milligram equivalents and calculated to equivalent quantity of Sodium.
[c] Calcium and Magnesium determined together and calculated to equivalent quantity of Calcium.
[d] Analysis by United States Department of Agriculture, Rubidoux Laboratory, Riverside, California.
[e] Analysis by University of California, Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside, California.
[f] Analysis by Edward S. Babcock and Sons, Riverside, California. Data from Case No. 22046 (Corona Foothill Lemon Co., a Corp., vs. C. E. Lillibridge, et al.), in the Superior Court of the State of California, in and for the County of Riverside.

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CHATSWORTH
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CANOGA PARK
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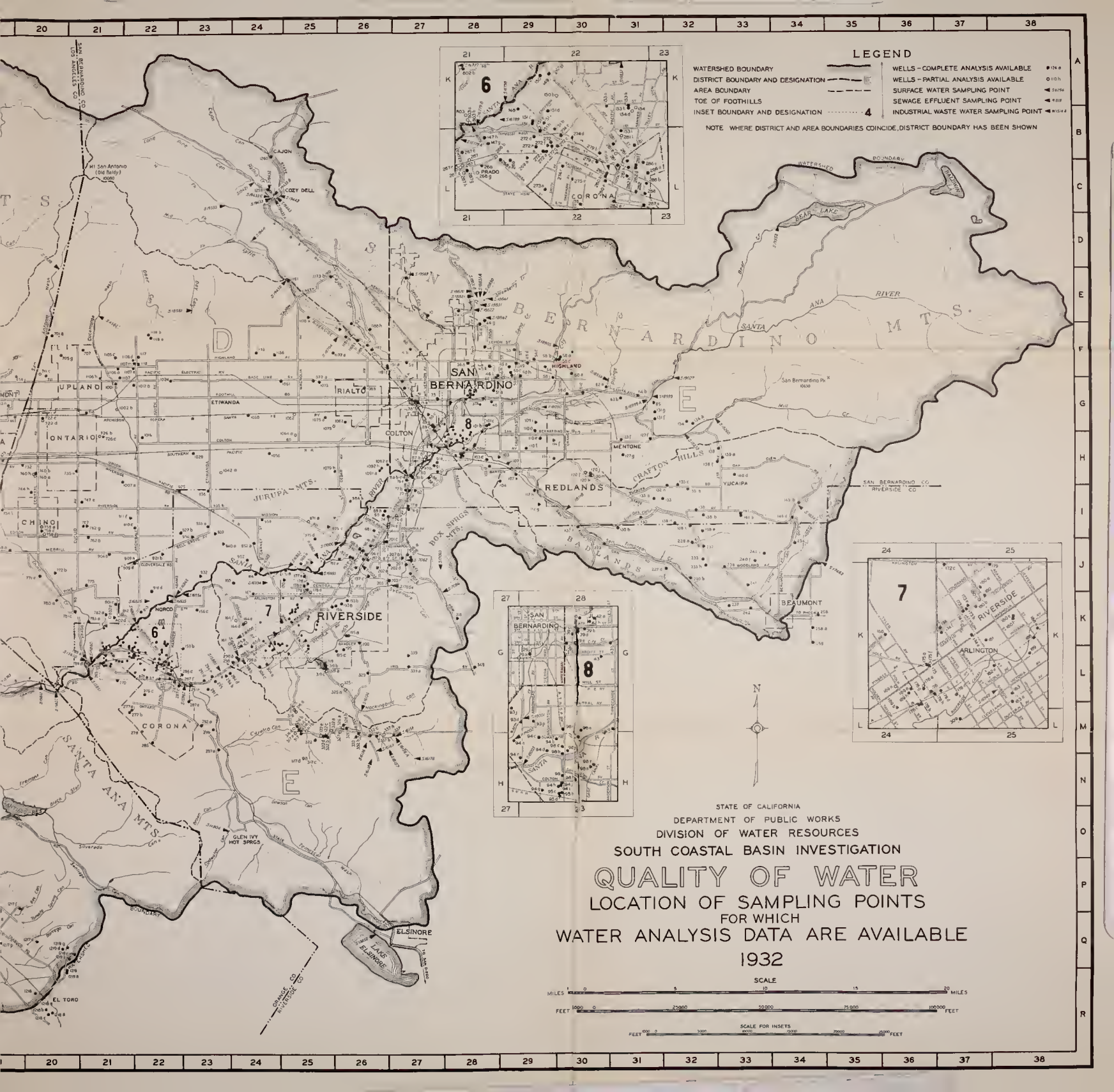
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AREA BOUNDARY
TOE OF FOOTHILLS
INSET BOUNDARY AND DESIGNATION 4
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SEWAGE EFFLUENT SAMPLING POINT
INDUSTRIAL WASTE WATER SAMPLING POINT
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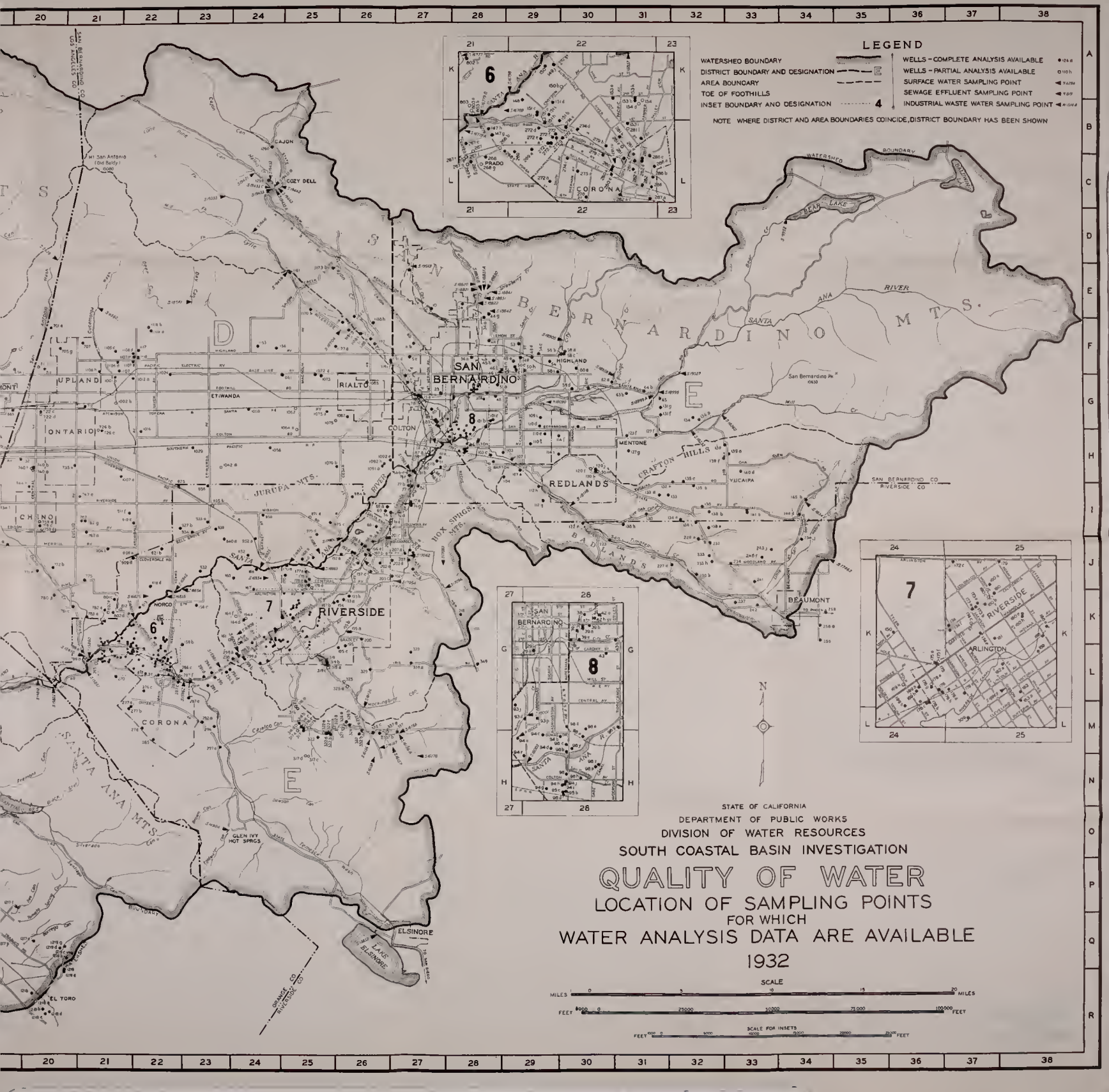
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