

Water Quality Control Plan Report



SANTA CLARA RIVER BASIN (4A)

STATE WATER RESOURCES CONTROL BOARD

REGIONAL WATER QUALITY CONTROL BOARD

LOS ANGELES REGION (4)

Part I, PART II, VOL. I

March 1975

TABLE 4--1

MINERAL QUALITY OBJECTIVES FOR SURFACE WATERS

Objectives (mg/l)^{a/}

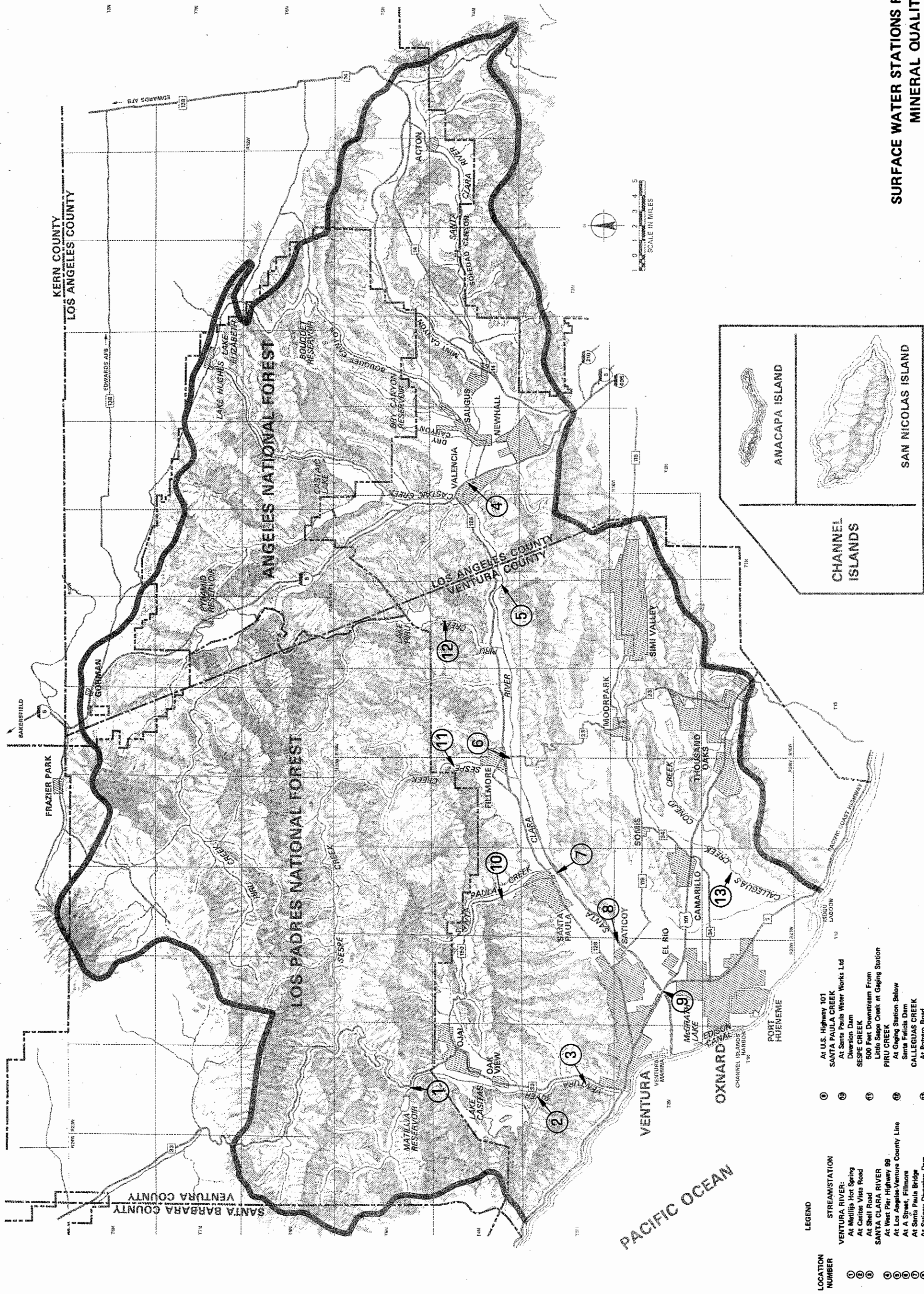
Stream/Station ^{b/}	TDS	Sulfate	Chloride	Boron	Nitrogen ^{c/}	SER ^{d/}
<u>Ventura River:</u>						
At Matilija Hot Spring	600	300	50	1.0	5	e/ 5.0
At Casitas Vista Road	800	300	60	1.5	5	e/ 5.0
At Shell Road	1,500	600	600	1.5	10	5.0
<u>Santa Clara River:</u>						
At West Pier Highway 99	900	450	80	1.5	10	5.0
At Los Angeles and Ventura County Line	1,100	550	90	1.5	5	10.0
At A Street, Fillmore	1,300	650	80	1.5	5	5.0
Santa Paula Bridge	1,300	650	80	1.5	5	5.0
At Saticoy Diversion Dam	1,100	550	60	1.5	5	5.0
At United States Highway 101	800	400	60	1.5	5	5.0
<u>Santa Paula Creek:</u>						
At Santa Paula Water Works- Diversion Dam	600	300	60	1.0	5	5.0
<u>Sespe Creek:</u>						
(500 feet downstream from Little Sespe Creek, at gaging station)	800	400	60	1.5	5	5.0
<u>Piru Creek:</u>						
(at gaging station below Santa Felicia Dam)	950	500	50	1.5	5	5.0
<u>Calleguas Creek:</u>						
At Potrero Road	850	400	50	1.0	5	e/ 5.0

TABLE 4-1 (Continued)

MINERAL QUALITY OBJECTIVES FOR SURFACE WATERS

As part of the State's continuing planning process, data will be collected and numerical water quality objectives will be developed for those mineral and nutrient constituents where sufficient information is presently not available for the establishment of such objectives.

- a/ The objective at each station is of the weighted annual average. Samples shall be collected at monthly intervals preferably but at least at quarterly intervals. Flow rate shall be determined at the time of sampling.
- b/ See Figure 4-1 for location.
- c/ Nitrate-N plus Nitrite-N.
Eutrophication problems have not impaired the beneficial use of surface waters in the basin. The eutrophication of the basin is described starting on page II-14-1. The lack of phosphorus data precluded the establishment of meaningful numerical objectives for phosphorus.
- d/ Sodium Equivalent Ratio
- e/ No data available



- LOCATION NUMBER**
- ①
 - ②
 - ③
 - ④
 - ⑤
 - ⑥
 - ⑦
 - ⑧
 - ⑨
 - ⑩
 - ⑪
 - ⑫
 - ⑬

- LEGEND**
- STREAM/STATION**
- VENTURA RIVER:**
 At Matilija Hot Spring
 At Casitas Vista Road
 At Shell Road
- SANTA CLARA RIVER**
 At West Pier Highway 99
 At Los Angeles-Ventura County Line
 At A Street, Fillmore
 At Santa Paula Bridge
 At Saticoy Diversion Dam
- SANTA PAULA CREEK**
 At U.S. Highway 101
 At Santa Paula Water Works Ltd
 Diversion Dam
- SESPRE CREEK**
 500 Feet Downstream From Little Sespse Creek at Gaging Station
- PIRU CREEK**
 At Gaging Station Below Santa Felicia Dam
- CALLEGUAS CREEK**
 At Potrero Road

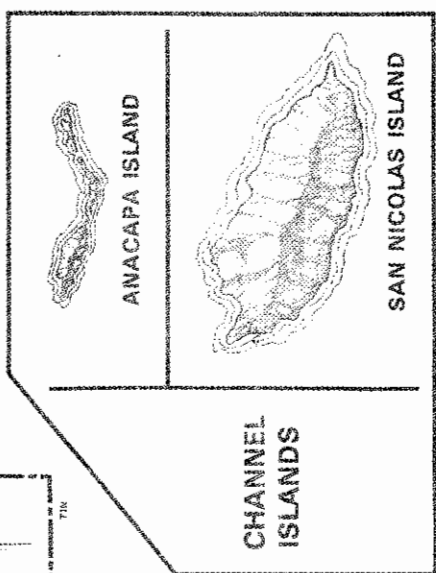


FIGURE 4-1
SURFACE WATER STATIONS FOR SAMPLING
MINERAL QUALITY OBJECTIVES
 I-4-13

TABLE 4-2

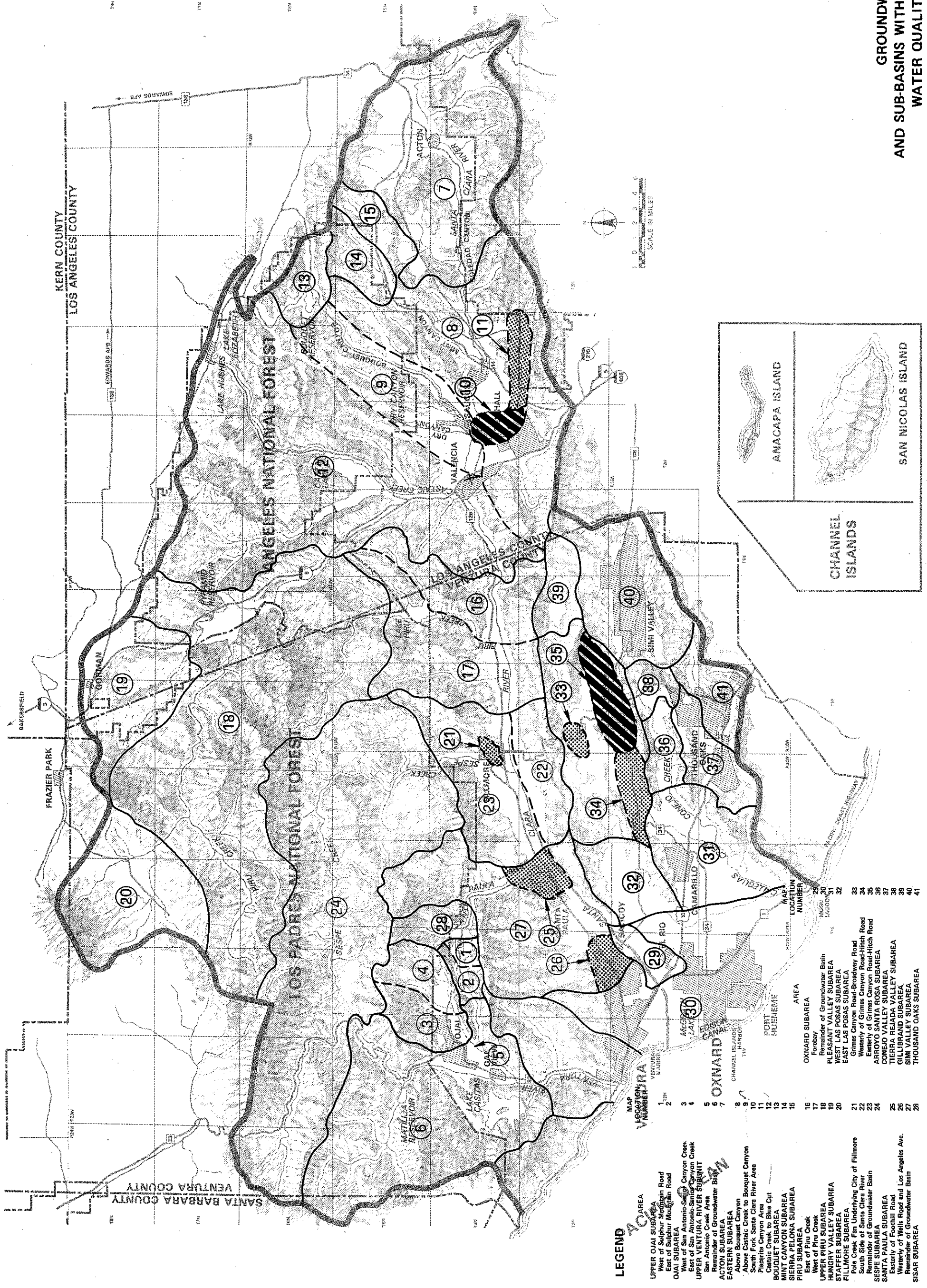
WATER QUALITY OBJECTIVES FOR GROUNDWATER BASINS

Area	Objective (mg/l)			
	TDS	Sulfate	Chloride	Boron
<u>Rincon Creek Hydro Unit</u> ^{h/}	None Specified			
<u>Ventura River Hydro Unit</u>				
Ojai Subunit				
Upper Ojai Subarea				
West of Sulphur Mountain Road	1,000	300	200	1
East of Sulphur Mountain Road	700	50	100	1
Ojai Subarea ^{b/}				
West of San Antonio-Senior Canyon Creeks	1,000	300	200	0.5
East of San Antonio-Senior Canyon Creeks	600	200	50	0.5
Upper Ventura River Subunit				
San Antonio Creek Area	1,000	300	100	1
Remainder of groundwater basin	800	300	100	0.5
Lower Ventura River Subunit ^{a/}	None Specified			
<u>Santa Clara-Calleguas Hydro Unit</u>				
Upper Santa Clara Subunit				
Acton Subarea	600	150	100	1.0
Eastern Subarea				
Above Bouquet Canyon ^{b/}	800	150	150	1.0
Above Castaic Creek to ^{c/} Bouquet Canyon	900	300	150	1.0
South Fork of Santa Clara River Area	1,300	800	100	0.5
Placerita Canyon Area	700	150	100	0.5
Castaic Creek to Blue Cut ^{d/}	1,500	700	150	1.0
Bouquet Subarea	400	50	30	0.5
Mint Canyon Subarea	700	150	100	0.5

TABLE 4-2 (Continued)

WATER QUALITY OBJECTIVES FOR GROUNDWATER BASINS

Area	Objective (mg/l)			
	TDS	Sulfate	Chloride	Boron
Sierra Pelona Subarea	600	100	100	0.5
Piru Subunit				
Piru Subarea				
East of Piru Creek <u>e/</u>	2,500	1,200	200	1.5
West of Piru Creek <u>f/</u>	1,200	600	100	1.5
Upper Piru Subarea	1,100	400	200	2
Hungry Valley Subarea	500	150	50	1.0
Stauffer Subarea	1,000	400	100	2.0
Sespe Subunit				
Fillmore Subarea				
Pole Creek Fan underlying City of Fillmore	2,000	800	100	1.0
South Side of Santa Clara River	2,000	800	100	1.5
Remainder of groundwater basin	1,200	600	100	1.0
Sespe Subarea	900	350	30	2.0
Santa Paula Subunit				
Santa Paula Subarea				
Easterly of Peck Road	1,200	600	100	1.0
Westerly of Wells Road and Los Angeles Ave.	1,000	400	100	1.0
Remainder of groundwater basin	2,000	800	200	1.5
Sisar Subarea	700	250	100	0.5
Oxnard Plain Subunit				
Oxnard Subarea				
Oxnard Forebay	1,200	600	150	1.5
Deep Aquifers underlying pressure area	1,200	600	150	1.5
Semiperched Aquifer <u>g/</u>		None	Specified	



LEGEND

- | | | | |
|----|--|----|--|
| 1 | UPPER OJAI SUBAREA | 16 | OXNARD SUBAREA |
| 2 | West of Sulphur Mountain Road | 17 | Forebay |
| 3 | East of Sulphur Mountain Road | 18 | Remainder of Groundwater Basin |
| 4 | OJAI SUBAREA | 19 | PLEASANT VALLEY SUBAREA |
| 5 | West of San Antonio Canyon Creek | 20 | WEST LAS POSAS SUBAREA |
| 6 | East of San Antonio Canyon Creek | 21 | EAST LAS POSAS SUBAREA |
| 7 | UPPER VENTURA RIVER SUBAREA | 22 | Grimes Canyon Road-Broadway Road |
| 8 | Remainder of Groundwater Basin | 23 | Western of Grimes Canyon Road-Hitch Road |
| 9 | EASTERN SUBAREA | 24 | ARROYO SANTA ROSA SUBAREA |
| 10 | Above Bouquet Canyon | 25 | TIERRA REJADA VALLEY SUBAREA |
| 11 | Above Castaic Creek to Bouquet Canyon | 26 | GULBRAND SUBAREA |
| 12 | South Fork Santa Clara River Area | 27 | SUMMIT VALLEY SUBAREA |
| 13 | Pleasant Canyon Area | 28 | THOUSAND OAKS SUBAREA |
| 14 | Castaic Creek to Blue Cut | | |
| 15 | BOUQUET SUBAREA | | |
| | MINT CANYON SUBAREA | | |
| | SIERRA PELONA SUBAREA | | |
| | PIRU SUBAREA | | |
| | East of Piru Creek | | |
| | West of Piru Creek | | |
| | UPPER PIRU SUBAREA | | |
| | HUNGRY VALLEY SUBAREA | | |
| | STAFFER SUBAREA | | |
| | FILLMORE SUBAREA | | |
| | Pole Creek Fan Underlying City of Fillmore | | |
| | South Side of Santa Clara River | | |
| | Remainder of Groundwater Basin | | |
| | SANTA PAULA SUBAREA | | |
| | Eastern of Foothill Road | | |
| | Eastern of With Ridge and Los Angeles Ave. | | |
| | Remainder of Groundwater Basin | | |
| | SISAR SUBAREA | | |

MAP LOCATION NUMBER

- | | | | |
|----|-----|----|-----|
| 1 | 12M | 29 | MAP |
| 2 | 12M | 30 | MAP |
| 3 | 12M | 31 | MAP |
| 4 | 12M | 32 | MAP |
| 5 | 12M | 33 | MAP |
| 6 | 12M | 34 | MAP |
| 7 | 12M | 35 | MAP |
| 8 | 12M | 36 | MAP |
| 9 | 12M | 37 | MAP |
| 10 | 12M | 38 | MAP |
| 11 | 12M | 39 | MAP |
| 12 | 12M | 40 | MAP |
| 13 | 12M | 41 | MAP |
| 14 | 12M | | |
| 15 | 12M | | |
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| 35 | 12M | | |
| 36 | 12M | | |
| 37 | 12M | | |
| 38 | 12M | | |
| 39 | 12M | | |
| 40 | 12M | | |
| 41 | 12M | | |

FIGURE 4-2
GROUNDWATER BASINS
AND SUB-BASINS WITH ESTABLISHED
WATER QUALITY OBJECTIVES
 I-4-21

TABLE 4-2 (Continued)

WATER QUALITY OBJECTIVES FOR GROUNDWATER BASINS

Area	Objective (mg/l)			
	TDS	Sulfate	Chloride	Boron
Pleasant Valley Subarea	1,200	600	150	1.5
Deep Aquifers	1,200	600	150	1.5
Shallow Aquifer <u>h/</u>		None Specified		
Calleguas-Conejo Subunit				
West Las Posas Subarea	900	350	150	1.0
East Las Posas Subarea				
Isolated basin vicinity of Grimes Canyon Road and Broadway Road	250	30	30	0.2
Westerly of Grimes Canyon Road and Hitch Blvd.	700	300	100	0.5
Easterly of Grimes Canyon Road and Hitch Blvd.	2,500	1,200	400	3.0
Remainder of area	1,000	400	150	1.0
Arroyo Santa Rosa Subarea	700	150	150	1.0
Conejo Valley Subarea	800	250	150	1.0
Tierra Rejada Valley Subarea	700	250	100	0.5
Gillibrand Subarea	900	350	50	1.0
Simi Valley Subarea				
Deep Aquifers	800	300	150	1.0
Shallow Aquifer <u>h/</u>		None Specified		
Thousand Oaks Subarea	1,400	700	150	1.0

a/ Shallow alluvial aquifer is of very poor quality and not used. Water quality in shallow aquifer shall be maintained existing levels in accordance with the "non-degradation" policy. This is to be accomplished on case-by-case basis as part of the requirements imposed upon dischargers to the shallow aquifer. Deeper San Pedro aquifers recharged from Oxnard Forebay and consequently its quality is dependent on the quality of replenishment water in Oxnard Forebay. Objective for deeper San Pedro Aquifers identical to that for deeper aquifers beneath the Oxnard pressure area.

- b/ Excludes aquifer in Bouquet Canyon and tributaries.
- c/ Includes aquifer in Bouquet Canyon and tributaries but excludes aquifer* in Castaic Creek and the South Fork of Santa Clara River and tributaries.
- d/ Includes aquifer in Castaic Creek and tributaries.
- e/ Includes aquifer in Piru Creek and tributaries.
- f/ Excludes aquifer in Piru Creek and tributaries.
- g/ Semi-perched aquifer is of very poor quality and not used for domestic, agricultural, or industrial water supply in any significant quantity. Water quality in shallow aquifer shall be maintained existing levels in accordance with the "non-degradation" policy. This is to be accomplished on case-by-case basis as part of the requirements imposed upon dischargers to the shallow aquifer.
- h/ Shallow aquifers are of very poor quality and not used for domestic, agricultural, or industrial water supply in any significant quantity. Water quality in shallow aquifer shall be maintained existing levels in accordance with the "non-degradation" policy. This is to be accomplished on a case-by-case basis as part of the requirements imposed upon dischargers to the shallow aquifer.

Stream and Date	Discharge (cfs)	Diss. Oxygen mg/l	% Sat.	Temp., °F	pH Value	EC (µmhos/cm)	Cations, mg/l							Anions, mg/l							Miscellaneous, mg/l							Remarks
							Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS	TH	NCH							
<u>VENTURA RIVER NEAR VENTURA</u>																												
10/21/69	2.5	13.9	140	61	7.9	1,032	124	35	60	2	0	274	253	52	19.6	0.6	0.45	-	683	454	229	Surface inflow to Lower Ventura River Hydrographic Subunit.						
04/14/70	2.2	12.3	133	67	7.9	1,067	123	36	59	2	0	279	264	45	13.7	0.6	0.45	-	700	456	220							
07/21/70	-	4.1	46	70	7.8	1,007	106	38	62	2	0	240	268	50	9.5	0.6	0.51	-	718	421	224							
<u>MATILAJA CREEK BELOW DAM</u>																												
10/21/69	6.6	10.0	105	65	7.8	878	105	29	52	3	0	203	266	34	0.0	0.9	1.00	-	584	381	215	North Fork plus some releases from Matilija Dam.						
04/14/70	-	9.2	98	66	7.9	894	105	31	41	2	0	186	288	17	0.0	0.8	0.59	-	607	390	237							
07/21/70	-	8.7	99	72	8.0	866	91	35	49	3	0	168	244	30	0.0	0.8	0.74	-	619	371	233							
<u>SATICOY DIVERSION NEAR SATICOY</u>																												
12/19/69	2.78	-	-	-	7.8	1,528	169	57	120	-	0	302	547	60	14.0	0.8	0.92	-	1,269	657	409							
07/09/70	-	-	-	-	8.0	1,450	139	60	99	-	0	267	513	46	0	0.9	0.81	-	1,124	594	375							
09/15/70	-	-	-	-	7.9	1,629	164	61	128	-	0	257	593	65	8.0	0.9	0.92	-	1,276	660	450							
<u>SANTA PAULA CREEK NEAR SANTA PAULA</u>																												
10/20/69	3.32	9.0	94	64	8.0	882	106	28	56	2	0	272	225	29	2.0	0.6	0.22	-	581	380	157							
03/05/70	4.79	-	-	-	8.0	663	83	18	35	-	0	164	194	19	-	0.5	0.15	-	513	281	147							
07/22/70	3.90	10.2	122	77	8.0	839	75	29	70	2	0	188	234	41	0.3	0.6	0.33	-	578	307	152							
<u>SANTA CLARA RIVER NEAR SANTA PAULA</u>																												
10/21/69	-	10.4	102	59	8.0	1,199	141	48	75	4	0	259	429	30	7.1	0.9	0.62	-	887	550	337							
04/15/70	-	8.9	97	68	8.0	1,373	140	49	97	4	0	264	458	41	8.6	0.9	0.68	-	1,016	551	335							
09/15/70	-	-	-	-	7.9	1,578	165	67	108	-	0	279	591	48	13.0	0.8	0.97	-	1,271	688	459							
<u>HOPPER CREEK NEAR PIRU</u>																												
12/17/69	-	-	-	-	7.9	1,807	166	82	163	-	0	305	768	37	-	0.7	0.35	-	1,521	752	502							
03/05/70	5.28	-	-	-	8.0	1,067	127	39	59	-	0	196	400	14	-	0.5	0.24	-	835	478	317							
<u>SESE CREEK NEAR FILLMORE</u>																												
10/20/69	12.0	11.1	114	63	8.1	988	103	29	78	3	0	170	312	51	0.0	1.4	0.81	-	653	376	237							
03/05/70	16.4	-	-	-	8.1	613	77	22	25	-	0	154	187	11	-	0.6	0.24	-	476	283	156							
07/22/70	0.8	8.6	106	80	8.1	1,111	135	32	75	4	0	207	364	51	0.2	1.1	0.53	-	814	469	299							
<u>PIRU CREEK BELOW SANTA FELICIA DAM</u>																												
10/20/69	2.94	9.2	97	65	7.9	977	123	39	46	4	0	201	366	11	0.9	0.9	0.56	-	698	468	303	Lake Piru releases						
07/09/70	2.88	-	-	-	7.8	1,072	108	51	58	-	0	225	378	16	-	0.9	0.64	-	836	479	295							
09/15/70	2.37	-	-	-	7.7	1,055	140	46	61	-	0	244	429	18	-	0.9	0.88	-	938	539	339							
<u>PIRU LAKE NEAR PIRU</u>																												
12/18/69	4.10	-	-	-	8.0	1,060	136	42	50	-	0	222	399	16	-	0.9	0.66	-	895	512	330							
04/30/70	-	-	-	-	7.2	1,050	112	51	54	-	0	214	387	21	-	0.8	0.45	-	839	489	314							
09/15/70	-	-	-	-	7.8	1,190	140	49	61	-	0	228	458	17	-	0.9	0.89	-	953	551	364							
<u>PIRU CREEK ABOVE PIRU LAKE</u>																												
12/18/69	-	-	-	-	8.0	1,038	109	40	68	-	0	254	318	26	-	1.1	1.36	-	815	437	228	Boron due to colemanite deposits upstream.						
03/05/70	-	-	-	-	7.5	987	108	35	58	-	0	193	362	13	-	0.9	0.76	-	759	414	255							
09/14/70	-	-	-	-	7.6	1,288	115	58	100	-	0	209	480	49	-	1.2	1.80	-	1,011	526	354							
<u>SANTA CLARA RIVER AT LOS ANGELES - VENTURA COUNTY LINE</u>																												
10/20/69	-	9.1	98	67	8.1	1,331	140	47	110	6	0	315	405	58	15.4	0.8	0.66	-	972	543	285	Inflow to Piru Basin.						
04/15/70	-	8.9	92	63	8.2	1,479	153	52	116	5	0	333	466	60	10.8	0.9	0.61	-	1,090	596	323							
09/15/70	-	-	-	-	8.0	1,597	165	58	136	-	0	353	519	76	12.0	0.7	0.77	-	1,319	651	361							

TABLE 14-3
MINERAL ANALYSES OF SELECTED SURFACE WATERS IN BASIN 4A

TABLE 14-9
SURFACE WATER QUALITY - UPPER SANTA CLARA
HYDROGRAPHIC SUBUNIT

Constituent	Santa Clara River at Highway 99 ^{a/} (8/4/71 to 8/4/72)		Santa Clara River at S. P. R. R. Bridge West of Acton - Low Flow ^{b/}
	Storm Flow	Dry Weather Flow	
EC x 10 ⁶ µmho/cm	422-1,020	1,160-1,660	665
pH, Value	7.4-7.7	7.1-8.3	8.0
Cations, mg/l:			
Ca	40.8-92	125-193	57
Mg	14.1-31	34-58	27
Na	27-90	90-134	55
K	3.3-12	3-5	2
NH ₄	0-1	0	0.2
Anions, mg/l:			
CO ₃	0	0	0
HCO ₃	94-155	334-432	266
SO ₄	99.6-347	255-429	99
Cl	12-47	55-87	43
NO ₃	0-18	32.9-44	0
F	-	-	-
PO ₃	-	0.7-7.5	0.5
TDS, mg/l	327-761	965-1,460	550
Suspended solids, mg/l	2,040-13,100	-	-
Total hardness, mg/l as Ca CO ₃	140-360	460-721	254
BOD ₅ , mg/l	8-30	4-18	-

^{a/} From Los Angeles County Flood Control District Files, Ref. 26.

^{b/} Data analyzed September 1, 1971.

TABLE 14-19
 EASTERN HYDROGRAPHIC SUBAREA
 LANG TO SAUGUS GROUNDWATER QUALITY ^{a/}

Well	Location	Date of Analysis	SO ₄ (mg/l)	Cl (mg/l)	NO ₃ (mg/l)	TDS ^{b/} (mg/l)	TH (mg/l)
4N/14W-17E03	Soledad Canyon	4/21/71	84	42	7.2	434	273
4N/15W-14J01	Soledad Canyon	4/21/71	83	54	26.0	454	262
4N/15W-36C02	Sand Canyon	4/21/71	23	32	0.0	414	9
4N/15W-26K01	Sand Canyon	4/21/71	211	26	14.9	532	367
4N/15W-23F04	Sand Canyon	4/21/71	72	48	26.0	454	272
4N/15W-22H01	Soledad Canyon	4/21/71	78	43	28.0	430	277
5N/14W-24P01	Mint Canyon	4/21/71	115	109	15.7	699	418
5N/14W-30R02	Mint Canyon	4/21/71	465	78	0.0	944	26
5N/14W-31L01	Mint Canyon	4/21/71	113	87	8.0	544	207
4N/15W-1E01	Mint Canyon	4/21/71	143	165	8.2	659	26
4N/15W-2J03	Mint Canyon	4/21/71	195	127	24.9	879	223
4N/15W-11B03	Mint Canyon	4/21/71	248	129	46.0	979	496
4N/15W-21M05	Soledad Canyon	4/21/71	94	39	25.4	483	290
4N/15W-18N02	Soledad Canyon	4/19/71	86	34	16.5	412	244

^{a/} Ref. 20.

^{b/} Indirectly determined by summation of anions and cations.

TABLE 14-20
 EASTERN HYDROGRAPHIC SUBAREA
 SAUGUS TO CASTAIC JUNCTION GROUNDWATER QUALITY ^{a/}

<u>Well</u>	<u>Location</u>	<u>Date of Analysis</u>	<u>SO₄⁴ (mg/l)</u>	<u>Cl (mg/l)</u>	<u>NO₃³ (mg/l)</u>	<u>TDS^{b/} (mg/l)</u>	<u>TH (mg/l)</u>
5N/15W-33E01	Bouquet Canyon	4/28/71	48	22	1.0	326	211
5N/15W-32R02	Bouquet Canyon	4/28/71	56	34	5.0	361	235
4N/15W-6H01	Bouquet Canyon	4/28/71	125	62	32.1	600	329
4N/15W-6P02	Bouquet Canyon	4/19/71	94	44	19.6	477	268
5N/16W-25Q02	Haskell Canyon	4/19/71	380	128	3.0	1,095	501
4N/16W-1Q01	Haskell Canyon	4/19/71	403	62	5.2	881	427
4N/16W-14E02	Dry Canyon	4/19/71	201	84	87.2	787	477
3N/15W-5D02	Placerita Canyon	4/27/71	139	69	0.0	526	329
4N/16W-35L01	Placerita Canyon	4/19/71	90	55	0.0	408	138
3N/16W-4A02	Lion Canyon	4/19/71	403	42	4.8	803	441
4N/16W-33L01	Pico Canyon	4/19/71	730	26	1.5	1,219	451
4N/16W-22D03	Soledad Canyon	5/19/71	134	36	27.9	501	277
5N/16W-34P02	San Francisco Canyon	4/22/71	166	35	1.8	518	336
4N/16W-16D01	Soledad Canyon	4/22/71	279	53	5.3	787	424

^{a/} Ref. 20.

^{b/} Indirectly determined by summation of anions and cations.

TABLE 14-21
EASTERN HYDROGRAPHIC SUBAREA
CASTAIC JUNCTION TO BLUE CUT GROUNDWATER QUALITY ^{a/}

<u>Well</u>	<u>Location</u>	<u>Date of Analysis</u>	<u>SO₄ (mg/l)</u>	<u>Cl (mg/l)</u>	<u>NO₃ (mg/l)</u>	<u>TDS ^{b/} (mg/l)</u>	<u>TH (mg/l)</u>
5N/17W-25M02	Castaic Creek	4/22/71	961	79	65.8	1,732	621
5N/17W-36A03	Castaic Creek	4/27/71	402	70	8.6	916	513
5N/17W-36J01	Castaic Creek	4/22/71	357	47	4.8	764	452
4N/16W-6J04	Castaic Creek	4/22/71	343	53	6.8	746	422
4N/17W-3K02	Hasley Canyon	4/22/71	14	23	11.4	200	105
4N/17W-2M02	Hasley Canyon	4/22/71	39	41	16.2	337	195
4N/17W-12P02	Santa Clara River	4/27/71	474	97	22.8	1,145	649
4N/17W-14Q04	Santa Clara River	4/22/71	454	70	11.7	991	586
4N/17W-22E02	Santa Clara River	4/22/71	485	66	6.0	995	588
4N/17W-15N01	San Martinez Chiquito Canyon	4/22/71	923	356	0.0	2,266	42

^{a/} Ref. 20.

^{b/} Indirectly determined by summation of anions and cations.

TABLE 14-23
 PIRU HYDROGRAPHIC SUBAREA GROUNDWATER QUALITY

<u>Well</u>	<u>Location</u>	<u>Date of Analysis</u>	<u>SO₄ (mg/l)</u>	<u>Cl (mg/l)</u>	<u>NO₃ (mg/l)</u>	<u>B (mg/l)</u>	<u>F (mg/l)</u>	<u>TDS (mg/l)</u>
4N/18W-27B01	Santa Clara River	5/7/71	1,165	100	82.0	0.70	0.7	2,105
4N/18W-29K01	Santa Clara River	5/7/71	581	82	25.0	0.42	0.8	1,370
4N/18W-3Q02	Piru Canyon	11/18/69	389	60	10.5	0.90	1.1	1,526
4N/18W-20C01	Piru Canyon	7/2/71	48	1,410	--	21.4	1.1	3,053
4N/18W-20M01	Piru Canyon	5/7/71	528	24	9.0	0.85	0.9	1,070
4N/18W-19R01	Piru Canyon	5/28/71	533	36	13.0	0.95	0.9	1,166
4N/18W-20N01	Piru Canyon	5/7/71	774	60	6.0	0.10	0.7	1,491
4N/18W-29C01	Piru Canyon	5/7/71	691	67	28.0	0.33	0.7	1,406
4N/18W-29D01	Piru Canyon	5/3/71	494	32	10.0	0.85	0.9	972
4N/18W-30G03	Piru Canyon	5/3/71	478	32	13.0	0.85	0.8	958
4N/18W-29M01	Santa Clara River	5/7/71	511	42	15.0	0.35	0.8	1,026
4N/18W-30J03	Santa Clara River	5/7/71	535	58	16.0	0.38	0.7	1,113
4N/19W-25M02	Hopper Canyon	5/27/71	533	41	10.0	0.94	0.8	1,084
4N/19W-33M02	Santa Clara River	5/7/71	506	27	19.0	0.56	0.8	992

TABLE 14-25

FILLMORE HYDROGRAPHIC SUBAREA GROUNDWATER QUALITY ^{a/}

<u>Well</u>	<u>Location</u>	<u>Date of Analysis</u>	<u>SO₄ (mg/l)</u>	<u>Cl (mg/l)</u>	<u>NO₃ (mg/l)</u>	<u>B (mg/l)</u>	<u>F (mg/l)</u>	<u>TDS (mg/l)</u>	<u>TH (mg/l)</u>
4N/19W-33D04	Santa Clara River	5/27/70	476	40	18.0	0.72	0.9	1,008	555
4N/19W-32K05	Santa Clara River	6/27/69	401	24	7.0	0.70	1.0	879	461
4N/19W-31D03	Santa Clara River	6/27/69	575	31	29.0	0.62	1.0	1,317	739
4N/20W-25J01	Adjacent to Santa Clara River (Pole Creek Fan)	6/5/70	725	92	44.0	0.90	0.6	1,914	1,101
4N/19W-31N03	Adjacent to Santa Clara River	6/27/69	456	31	17.0	0.50	1.0	981	538
3N/20W-1C04	Grimes Canyon	6/27/69	442	37	26.0	0.63	1.0	1,052	548
4N/20W-36Q01	Grimes Canyon	5/27/70	431	35	12.0	0.52	0.9	959	502
3N/20W-2H05	Adjacent to Santa Clara River (South Side)	11/17/69	457	29	22.5	0.57	1.0	1,020	557
4N/20W-24D01	Sespe Creek	5/26/70	300	93	47.0	1.01	0.8	834	472
4N/20W-25C01	Sespe Creek	5/14/70	280	44	24.0	0.85	0.8	866	476
4N/20W-26A02	Sespe Creek	5/27/70	337	59	38.0	1.26	0.9	885	508
4N/20W-34R01	Santa Clara River	5/12/70	383	50	27.0	0.76	0.7	1,028	539
4N/20W-33F01	Adjacent to Santa Clara River	11/17/69	271	24	10.5	0.14	0.7	663	306
4N/20W-32H01	Adjacent to Santa Clara River (North Side)	1/9/70	219	31	55.5	0.14	1.0	670	394
3N/20W-3N02	Adjacent to Santa Clara River (South Side)	5/12/70	499	42	38.0	0.95	0.7	1,208	638
3N/20W-10D02	Adjacent to Santa Clara River (South Side)	5/26/70	659	56	107.0	0.79	0.9	1,422	776
3N/20W-9F01	Balcom Canyon	5/26/70	1,368	154	92.0	1.60	1.2	2,868	1,438
3N/20W-9D01	Santa Clara River	7/28/69	616	74	73.0	0.50	0.7	1,516	785
3N/20W-5D02	Adjacent to Santa Clara River (North Side)	5/26/70	345	35	19.0	0.13	0.7	861	524
3N/20W-6J02	Adjacent to Santa Clara River (North Side)	11/18/69	517	49	33.0	0.63	0.9	1,067	578
3N/21W-12H01	Adjacent to Santa Clara River (North Side)	6/1/70	364	41	15.0	0.90	0.8	919	482

^{a/} Ref. 20.