

**GROUND-WATER HYDROLOGY AND QUALITY IN THE
LOMPOC AREA, SANTA BARBARA COUNTY,
CALIFORNIA, 1987-88**

By Daniel J. Bright, Christina L. Stamos, Peter Martin, *and* David B. Nash

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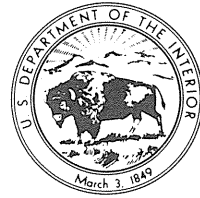
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<, actual value is less than value shown; --, no data]

Potassium, dissolved (mg/L)	Alkalinity, total, field (mg/L as CaCO ₃)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Solids, residue at 180 °C, dissolved (mg/L)	Nitrogen, nitrite plus nitrate, dissolved (mg/L as N)	Boron, dissolved (µg/L)	Manganese, dissolved (µg/L)
2.8	297	250	93	801	<0.100	530	34
--	--	--	--	943	--	--	--
--	--	--	--	942	--	--	--
--	--	--	--	919	--	--	--
--	--	--	--	945	--	--	--
--	--	--	--	946	--	--	--
--	--	--	--	1,020	--	--	--
--	--	--	--	1,120	--	--	--
--	--	--	--	1,130	--	--	--
--	--	--	--	1,110	--	--	--
--	--	--	--	970	--	--	--
--	--	--	--	1,010	--	--	--
--	--	--	--	824	--	--	--
3.1	374	280	120	994	<.100	650	120
--	--	--	--	374	--	--	--
--	--	--	--	990	--	--	--
--	--	--	--	964	--	--	--
--	--	--	--	967	--	--	--
--	--	--	--	1,060	--	--	--
--	--	--	--	1,080	--	--	--
--	--	--	--	1,080	--	--	--
--	--	--	--	1,090	--	--	--
--	--	--	--	1,140	--	--	--
--	--	--	--	1,270	--	--	--
3.5	308	450	96	1,110	<.100	500	15
--	--	--	--	1,220	--	--	--
--	--	--	--	1,230	--	--	--
--	--	--	--	1,180	--	--	--
--	--	--	--	1,270	--	--	--
--	--	--	--	1,280	--	--	--
--	--	--	--	--	--	--	--
4.5	361	480	120	919	--	--	--
--	--	--	--	1,280	<.100	530	50
--	--	--	--	410	--	--	--
--	--	--	--	1,260	--	--	--
--	--	--	--	1,270	--	--	--
4.0	251	370	54	904	<.100	430	<1
--	--	--	--	1,170	--	--	--
--	--	--	--	1,010	--	--	--
--	--	--	--	976	--	--	--
--	--	--	--	889	--	--	--
--	--	--	--	525	--	--	--
2.5	372	260	100	940	.230	130	80
--	--	--	--	347	--	--	--
--	--	--	--	930	--	--	--
--	--	--	--	869	--	--	--
--	--	--	--	852	--	--	--
--	--	--	--	1,010	--	--	--
--	--	--	--	1,040	--	--	--
--	--	--	--	1,100	--	--	--
--	--	--	--	1,020	--	--	--
--	--	--	--	921	--	--	--

Table 10. Chemical analyses for selected streams in the Lompoc area, 1987-88

[μ S/cm, microsiemens per centimeter at 25°C; °C, degree Celsius; mg/L, milligrams per liter; μ g/L, micrograms per liter;

Gaging station		Date	Specific conductance (μ S/cm)	pH (standard unit)	Temperature, water (°C)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)
No.	Name							
11132500	Salsipuedes Creek near Lompoc	1-05-87	1,200	8.1	11.5	120	42	93
		2-03-87	1,420	8.2	12.5	--	--	--
		3-04-87	1,270	--	15.5	--	--	--
		4-06-87	1,330	8.2	19.0	--	--	--
		5-05-87	1,320	8.2	23.0	--	--	--
		6-01-87	1,300	8.3	23.5	--	--	--
		7-01-87	1,550	7.9	19.0	--	--	--
		8-03-87	1,660	8.1	24.0	--	--	--
		8-26-87	1,630	8.0	21.5	--	--	--
		10-01-87	1,510	8.0	19.0	--	--	--
		11-02-87	1,440	8.1	15.0	--	--	--
		12-01-87	1,510	8.1	11.0	--	--	--
		1-05-88	1,180	8.2	10.5	--	--	--
		2-03-88	1,480	8.2	9.5	140	57	110
		2-29-88	604	7.6	14.0	--	--	--
		4-06-88	1,530	8.1	17.5	--	--	--
		5-05-88	1,430	8.1	15.5	--	--	--
		6-02-88	1,530	8.0	24.5	--	--	--
		7-06-88	1,610	8.1	27.0	--	--	--
		8-02-88	1,520	8.0	22.5	--	--	--
9-09-88	1,630	8.0	19.0	--	--	--		
10-04-88	1,420	7.8	13.0	--	--	--		
11-01-88	1,380	7.8	15.0	--	--	--		
11-30-88	1,820	7.9	8.0	--	--	--		
11133000 ¹	Santa Ynez River at Narrows near Lompoc	1-05-87	1,500	8.1	13.0	150	80	92
		2-03-87	1,600	8.2	14.5	--	--	--
		3-04-87	1,500	8.1	16.0	--	--	--
		4-06-87	1,560	8.2	16.0	--	--	--
		5-05-87	1,520	8.0	21.0	--	--	--
		6-01-87	1,550	7.8	21.0	--	--	--
		6-26-87	--	--	--	--	--	--
		1-05-88	1,370	8.1	12.0	--	--	--
		2-03-88	1,740	8.2	10.5	140	77	110
		2-29-88	662	7.8	15.5	--	--	--
		4-06-88	1,860	8.1	19.5	--	--	--
		5-05-88	1,720	8.2	15.5	--	--	--
		7-06-88	1,300	8.1	20.0	110	66	72
		8-02-88	1,520	8.0	21.0	--	--	--
11134800	Miguelito Creek at Lompoc	10-02-87	1,500	8.4	17.0	--	--	--
		11-02-87	1,380	8.3	14.5	--	--	--
		12-01-87	1,330	8.3	12.5	--	--	--
		1-05-88	827	7.9	11.5	--	--	--
		2-03-88	1,370	8.0	7.0	130	69	83
		2-29-88	552	7.6	14.5	--	--	--
		4-06-88	1,410	8.3	14.0	--	--	--
		5-05-88	1,240	8.4	13.0	--	--	--
		6-02-88	1,290	8.3	18.5	--	--	--
		7-06-88	1,460	8.5	24.0	--	--	--
		8-02-88	1,410	8.3	18.5	--	--	--
		9-09-88	1,620	8.5	17.0	--	--	--
		10-04-88	1,270	8.2	18.5	--	--	--
12-13-88	1,340	8.3	11.0	--	--	--		

¹Isotope data are given in table 6.

CONTENTS

Abstract	1
Introduction	2
Purpose and scope	2
Description of the area	2
Acknowledgments	5
Well-numbering system	5
Geology	8
Lithologic units	8
Structural features	8
Ground-water hydrology	11
Definition of the aquifer system	11
Upper aquifer	11
Lower aquifer	11
Recharge	14
Discharge	19
Ground-water levels and movement	20
Seasonal changes	26
Long-term changes	29
Ground-water quality	30
Areal variation in ground-water quality	34
Upper aquifer	35
Shallow zone	35
Middle zone	38
Main zone	38
Lower aquifer	38
Vertical variation in ground-water quality	39
Stable-isotope chemistry	39
Distribution of stable isotopes and dissolved solids	40
Seasonal changes	44
Long-term changes	44
Upper aquifer	44
Shallow zone	44
Middle zone	45
Main zone	45
Lower aquifer	48
Conclusions	48
References cited	50

PLATE

1. Map showing generalized geology and geologic sections of the Lompoc area, Santa Barbara County, California **In pocket**