

Water-Data Report 2011

11133000 Santa Ynez River at Narrows, near Lompoc, CA

Santa Ynez River Basin

LOCATION.--Lat 34°38'10", long 120°25'25" referenced to North American Datum of 1927, Santa Barbara County, CA, Hydrologic Unit 18060010, in Canada de Salsipuedes Grant, on left bank, 0.6 mi upstream from State Highway 246, 1.8 mi downstream from Salsipuedes Creek, 1.9 mi east of Lompoc, and 33.0 mi downstream from Lake Cachuma.

DRAINAGE AREA.--789 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1947 to November 1951 (irrigation seasons only). May 1952 to September 1963, October 1964 to September 1979, October 1980 to current year. Records equivalent, except for low-flow periods, to those published as "near Lompoc" (station 11133500), November to December 1906, October 1907 to September 1918, May 1925 to September 1960, and October 1978 to September 1980.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 85 ft above NGVD of 1929, from topographic map. Prior to Apr. 10, 1991, at datum 5 ft higher. See WSP 1715 for history of changes prior to Oct. 1, 1961. Since Oct. 1, 1961, at various sites and datums within 0.1 mi of present site.

REMARKS.--Records fair except for estimated daily discharges and discharges above 1,000 ft³/s, which are poor. Flow regulated by Jameson Lake, Gibraltar Reservoir, and since November 1952, by Lake Cachuma (stations 11121000, 11122000, and 11125500, respectively). Water diverted out of Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water pumped from wells along banks of river for irrigation in valley upstream. Satellite telemeter at station. See schematic diagram of Santa Ynez River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 80,000 ft³/s, Jan. 25, 1969, gage height, 24.20 ft, from supplementary gage; no flow at times in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 9, 1907, reached a stage of 22.0 ft, site and datum then in use, discharge, 120,000 ft³/s, from mean-depth study.

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.5	24	11	129	41	93	1,030	121	e33	17	4.7	2.4
2	9.1	22	11	340	40	86	961	113	e33	17	5.0	2.3
3	9.8	18	10	277	38	82	844	109	e33	16	4.2	2.1
4	11	16	10	167	38	77	742	105	e33	16	3.7	2.3
5	11	15	11	136	37	73	662	98	e45	16	3.3	2.4
6	15	14	15	119	36	70	617	94	e46	14	3.2	2.4
7	21	13	16	107	36	73	593	97	e43	12	3.3	2.2
8	22	14	16	97	36	67	554	99	e41	11	3.5	2.0
9	21	13	16	89	34	63	521	99	e38	11	3.4	2.0
10	20	12	16	83	33	61	497	90	e36	11	3.5	2.0
11	19	11	15	76	32	60	464	83	e34	12	3.4	2.0
12	17	10	13	72	31	57	459	75	e32	12	3.2	2.0
13	16	9.0	13	68	32	54	429	68	e31	12	3.1	1.8
14	16	9.9	13	65	31	54	371	60	e30	12	3.0	1.9
15	14	10	13	62	32	53	331	54	e29	13	2.9	1.9
16	14	9.4	13	60	37	51	359	76	e28	12	2.6	2.0
17	16	8.8	18	58	36	49	357	88	28	12	2.4	2.2
18	18	8.4	69	55	482	46	327	80	25	12	2.4	2.4
19	22	8.1	437	54	463	50	299	72	26	11	2.5	2.5
20	24	9.6	1,020	52	244	6,760	270	62	27	9.4	2.7	2.3
21	25	13	706	51	153	16,200	240	55	25	8.7	2.8	2.7
22	25	12	837	50	130	3,430	217	51	24	8.7	2.9	3.0
23	24	13	886	48	109	1,900	220	48	22	8.2	2.8	2.6
24	23	14	394	47	93	1,320	223	45	20	7.9	2.7	2.3
25	24	14	296	45	132	1,560	215	42	20	8.2	2.5	2.2
26	23	13	423	44	159	2,000	203	40	20	6.9	2.4	2.3
27	20	13	144	42	134	1,710	191	e35	21	6.3	2.5	2.2
28	17	13	133	42	108	1,050	173	e34	20	5.1	2.5	2.2
29	15	12	e220	40	---	690	155	e34	19	4.4	2.5	2.0
30	23	11	336	42	---	580	135	e34	19	4.0	2.5	2.1
31	24	---	172	42	---	e844	---	e34	---	4.2	2.5	---
Total	568.4	383.2	6,303	2,659	2,807	39,263	12,659	2,195	881	331.0	94.6	66.7
Mean	18.3	12.8	203	85.8	100	1,267	422	70.8	29.4	10.7	3.05	2.22
Max	25	24	1,020	340	482	16,200	1,030	121	46	17	5.0	3.0
Min	9.1	8.1	10	40	31	46	135	34	19	4.0	2.4	1.8
Ac-ft	1,130	760	12,500	5,270	5,570	77,880	25,110	4,350	1,750	657	188	132

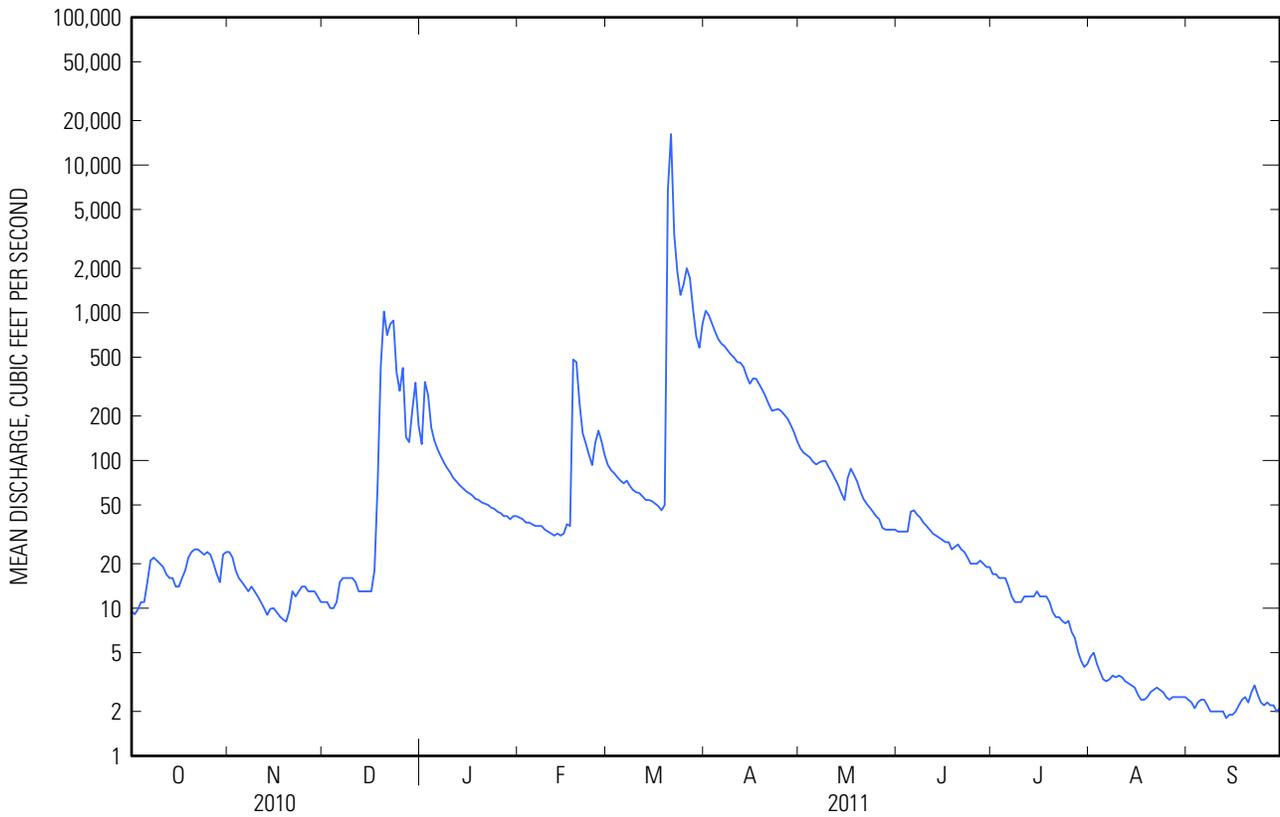
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.25	7.16	39.6	259	490	456	191	66.0	17.4	4.99	4.62	4.67
Max	29.9	112	479	3,303	7,452	3,590	1,253	993	310	78.3	30.9	29.4
(WY)	(1992)	(1966)	(2005)	(1969)	(1998)	(1983)	(1998)	(1998)	(1998)	(1998)	(2004)	(1992)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1955)	(1955)	(1955)	(1989)	(1961)	(1990)	(1961)	(1961)	(1961)	(1960)	(1954)	(1954)

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1952 - 2011	
Annual total	23,337.75		68,210.9			
Annual mean	63.9		187		127	
Highest annual mean					941	1998
Lowest annual mean					0.00	1990
Highest daily mean	1,980	Jan 21	16,200	Mar 21	38,000	Jan 25, 1969
Lowest daily mean	0.00	Jan 1	1.8	Sep 13	0.00	Sep 18, 1953
Annual seven-day minimum	0.00	Jan 1	1.9	Sep 9	0.00	Oct 23, 1953
Maximum peak flow			26,900	Mar 21	80,000	Jan 25, 1969
Maximum peak stage			19.27	Mar 21	24.20	Jan 25, 1969
Annual runoff (ac-ft)	46,290		135,300		91,840	
10 percent exceeds	131		358		120	
50 percent exceeds	17		27		2.7	
90 percent exceeds	0.29		2.5		0.00	



11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1978-88, 1997 to current year.

CHEMICAL DATA: Water years 1978-88, 1997 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1998 to September 2003 (seasonal records only), October 2003 to current year.

WATER TEMPERATURE: October 1998 to September 2004 (seasonal records only), October 2004 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1998.

REMARKS.--Interruption in record due to equipment malfunction and sensor fouling.

Specific conductance records rated excellent except for Jan. 11 to Feb. 22, Mar. 2-20, June 26 to July 2, July 26 to Aug. 14, Aug. 27 to Sept. 19, which are rated good; Mar. 21 to Apr. 2, July 3-6, Aug. 15-16, Sept. 20-26, which are rated fair; and Apr. 3 to May 12, July 7-18, which are rated poor.

Water temperature records rated excellent except for Nov. 11 to Dec. 9, Jan. 18 to Feb. 22, and Apr. 28 to Sept. 30, which are rated good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,150 microsiemens, Aug. 17, 2002; minimum recorded, 276 microsiemens, Jan. 27, 2008.

WATER TEMPERATURE: Maximum recorded, 32.0°C, July 12, 13, 1999; minimum recorded, 3.9°C, Jan. 14, 2007.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,680 microsiemens, Sept. 23, 29, 30; minimum recorded, 298 microsiemens, Mar. 20.

WATER TEMPERATURE: Maximum recorded, 29.5°C, July 7; minimum recorded, 8.1°C, Dec. 31.

WATER-QUALITY DATA**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 4

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Sample date-time	Barometric pressure, mm Hg (00025)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)
10-14-2010 1100	--	17	--	--	8.0	1,280	18.6	946	--
11-18-2010 1330	--	9.0	--	--	8.0	1,450	14.5	1,050	--
12-09-2010 1245	--	17	--	--	8.0	1,460	13.1	1,030	--
01-05-2011 1503	--	134	--	--	7.9	1,060	12.4	732	--
02-22-2011 1035	--	134	--	--	8.1	1,120	10.5	772	--
03-03-2011 1120	--	82	--	--	8.3	1,220	15.0	857	--
04-14-2011 1105	768	371	9.6	95	8.1	981	15.1	687	660
05-16-2011 1000	--	79	--	--	8.1	1,290	15.7	900	--
06-23-2011 1055	--	24	--	--	8.1	1,390	20.0	983	--
07-18-2011 0940	--	16	--	--	8.1	1,480	20.1	1,070	--
08-16-2011 1010	--	2.7	--	--	7.9	1,580	19.2	1,130	--
09-26-2011 1115	--	2.4	--	--	8.0	1,660	22.2	1,210	--

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 4

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Sample date-time	Dissolved solids, filtered, tons per acre-foot (70303)	Hardness, water, mg/L as CaCO ₃ (00900)	Non-carbonate hardness, water, filtered, mg/L as CaCO ₃ (00904)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in	Sodium, water, filtered, mg/L (00930)
								equivalents of major cations (00932)	
10-14-2010 1100	1.29	--	--	--	--	--	--	--	--
11-18-2010 1330	1.43	--	--	--	--	--	--	--	--
12-09-2010 1245	1.41	--	--	--	--	--	--	--	--
01-05-2011 1503	1.00	--	--	--	--	--	--	--	--
02-22-2011 1035	1.05	--	--	--	--	--	--	--	--
03-03-2011 1120	1.17	--	--	--	--	--	--	--	--
04-14-2011 1105	.93	453	216	99.8	49.5	2.97	1.09	20	53.2
05-16-2011 1000	1.22	--	--	--	--	--	--	--	--
06-23-2011 1055	1.34	--	--	--	--	--	--	--	--
07-18-2011 0940	1.46	--	--	--	--	--	--	--	--
08-16-2011 1010	1.54	--	--	--	--	--	--	--	--
09-26-2011 1115	1.64	--	--	--	--	--	--	--	--

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 4

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Sample date-time	Alkalinity, water, filtered, inflection- point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Bicarbonate, water, filtered, inflection- point, incremental titration method, field, mg/L (00453)	Carbonate, water, filtered, inflection- point incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
	10-14-2010 1100	--	--	--	--	--	--	--	--
11-18-2010 1330	--	--	--	--	--	--	--	--	--
12-09-2010 1245	--	--	--	--	--	--	--	--	--
01-05-2011 1503	--	--	--	--	--	--	--	--	--
02-22-2011 1035	--	--	--	--	--	--	--	--	--
03-03-2011 1120	--	--	--	--	--	--	--	--	--
04-14-2011 1105	237	284	2.7	33.0	.39	18.1	259	< .010	.29
05-16-2011 1000	--	--	--	--	--	--	--	--	--
06-23-2011 1055	--	--	--	--	--	--	--	--	--
07-18-2011 0940	--	--	--	--	--	--	--	--	--
08-16-2011 1010	--	--	--	--	--	--	--	--	--
09-26-2011 1115	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 4 of 4

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Sample date-time	Nitrite, water, filtered, mg/L as N (00613)	Orthophos- phate, water, filtered, mg/L as P (00671)	Iron, water, filtered, µg/L (01046)	Manga- nese, water, filtered, µg/L (01056)	Boron, water, filtered, µg/L (01020)
	10-14-2010 1100	--	--	--	--
11-18-2010 1330	--	--	--	--	--
12-09-2010 1245	--	--	--	--	--
01-05-2011 1503	--	--	--	--	--
02-22-2011 1035	--	--	--	--	--
03-03-2011 1120	--	--	--	--	--
04-14-2011 1105	.003	.048	9.1	11.4	310
05-16-2011 1000	--	--	--	--	--
06-23-2011 1055	--	--	--	--	--
07-18-2011 0940	--	--	--	--	--
08-16-2011 1010	--	--	--	--	--
09-26-2011 1115	--	--	--	--	--

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	1,360	1,340	1,350	1,370	1,350	1,370	1,490	1,470	1,480	1,080	1,010	1,050
2	1,360	1,350	1,360	1,370	1,350	1,370	1,490	1,480	1,480	1,090	490	746
3	1,360	1,340	1,360	1,370	1,350	1,360	1,490	1,480	1,480	900	716	756
4	1,360	1,350	1,350	1,380	1,360	1,370	1,480	1,470	1,480	1,020	900	972
5	1,360	1,340	1,360	1,390	1,370	1,380	1,490	1,440	1,480	1,090	1,020	1,060
6	1,350	1,310	1,330	1,400	1,380	1,390	1,460	1,430	1,450	1,120	1,090	1,110
7	1,340	1,320	1,340	1,410	1,390	1,400	1,480	1,460	1,470	1,150	1,120	1,140
8	1,340	1,320	1,340	1,410	1,390	1,400	1,480	1,460	1,470	1,170	1,150	1,160
9	1,340	1,320	1,340	1,420	1,410	1,410	1,480	---	---	1,190	1,170	1,190
10	1,350	1,330	1,340	1,430	1,410	1,420	1,470	1,450	---	1,220	1,190	1,200
11	1,350	1,340	1,350	1,440	1,420	1,430	1,480	---	---	1,230	1,220	1,230
12	1,360	1,340	1,350	1,450	1,430	1,440	1,480	1,460	1,470	1,250	1,230	1,240
13	1,370	1,350	1,360	1,460	1,440	1,440	1,490	1,470	1,480	1,260	1,240	1,250
14	1,370	1,350	1,370	1,460	1,440	1,450	1,490	1,480	1,490	1,270	1,260	1,260
15	1,380	1,360	1,370	1,460	1,440	1,460	1,490	1,480	1,490	1,270	1,260	1,270
16	1,380	1,370	1,380	1,460	1,440	1,460	1,500	1,490	1,500	1,280	1,270	1,280
17	1,390	1,380	1,380	1,480	1,460	1,460	1,500	1,490	---	1,290	1,270	1,280
18	1,390	1,370	1,380	1,480	1,460	1,480	---	1,360	---	1,300	1,280	1,300
19	1,380	1,350	1,370	1,480	1,480	1,480	---	---	---	1,310	1,290	1,300
20	1,370	1,360	1,370	1,480	1,460	1,460	---	---	---	1,310	1,300	1,300
21	1,370	1,350	1,360	1,480	1,440	1,440	---	---	---	1,320	1,300	1,310
22	1,360	1,350	1,360	1,480	1,460	1,470	769	496	---	1,330	1,310	1,310
23	1,360	1,350	1,360	1,480	1,440	1,470	---	---	---	1,330	1,310	1,320
24	1,370	1,350	1,360	1,460	1,440	1,460	882	---	---	1,340	1,310	1,320
25	1,360	1,350	1,350	1,470	1,460	1,460	964	892	---	1,340	1,310	1,320
26	1,370	1,350	1,360	1,480	1,470	1,470	---	---	---	1,350	1,320	1,340
27	1,380	1,360	1,370	1,480	1,460	1,470	---	---	---	1,360	1,330	1,340
28	1,380	1,360	1,380	1,470	1,460	1,470	---	---	---	1,360	1,330	1,350
29	1,390	1,340	1,380	1,480	1,470	1,470	---	---	---	1,370	1,340	1,350
30	1,350	1,320	1,330	1,480	1,470	1,480	---	---	---	1,360	1,340	1,340
31	1,370	1,350	1,370	---	---	---	1,010	816	949	1,360	1,340	1,350
Max	1,390	1,380	1,380	1,480	1,480	1,480	---	---	---	1,370	1,340	1,350
Min	1,340	1,310	1,330	1,370	1,350	1,360	---	---	---	900	490	746

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

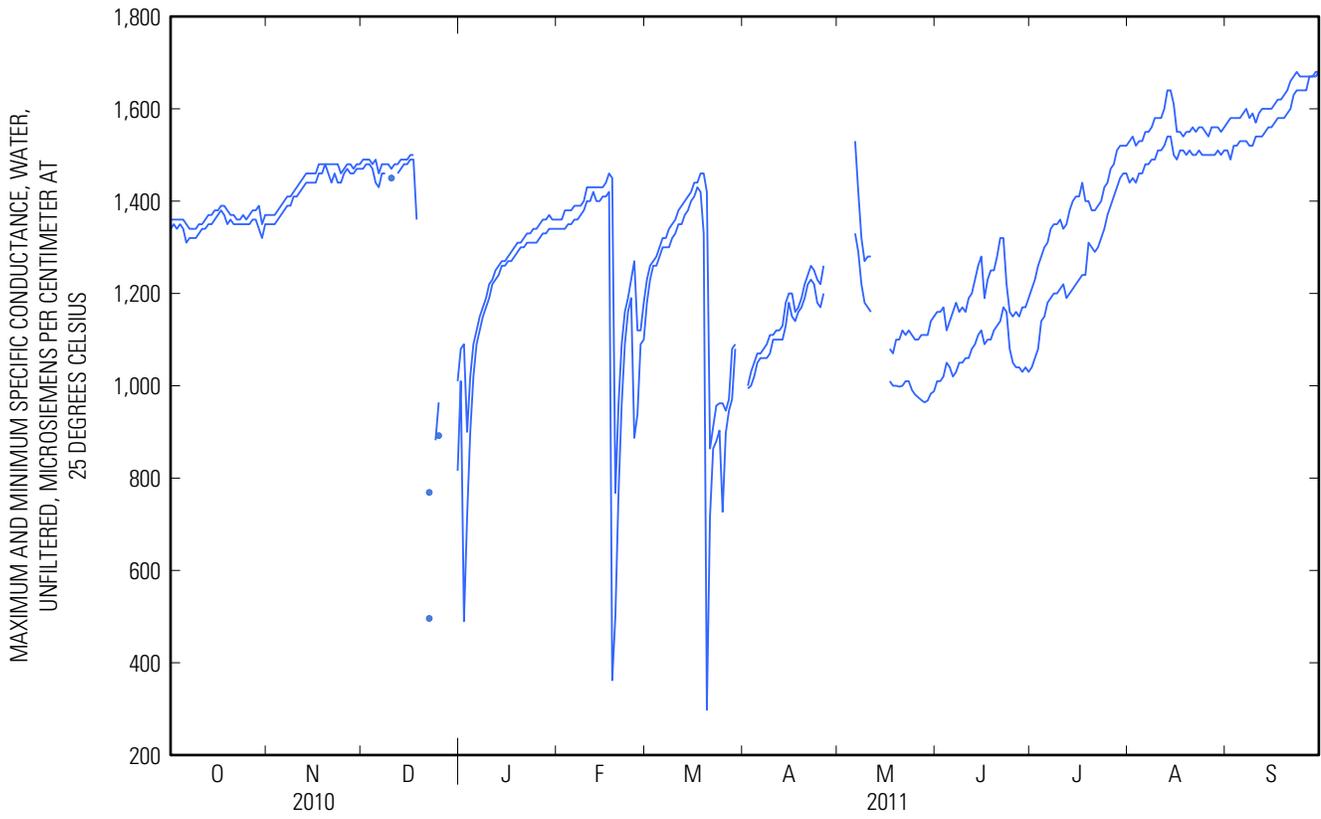
Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	1,360	1,340	1,350	1,230	1,180	1,220	---	---	---	---	---	---
2	1,360	1,340	1,350	1,260	1,230	1,240	1,000	994	996	---	---	---
3	1,380	1,340	1,360	1,270	1,260	1,270	1,030	1,000	1,020	---	---	---
4	1,380	1,350	1,360	1,280	1,260	1,270	1,050	1,020	1,040	---	---	---
5	1,380	1,350	1,370	1,300	1,280	1,290	1,070	1,050	1,070	---	---	---
6	1,390	1,360	1,370	1,320	1,300	1,300	1,070	1,060	1,070	1,530	1,330	1,460
7	1,390	1,360	1,380	1,320	1,300	1,310	1,080	1,060	1,070	1,420	1,290	1,380
8	1,390	1,370	1,380	1,340	1,300	1,320	1,090	1,060	1,090	1,320	1,220	1,280
9	1,400	1,380	1,400	1,350	1,320	1,340	1,110	1,070	1,090	1,270	1,180	1,210
10	1,430	1,400	1,410	1,360	1,330	1,350	1,110	1,100	1,100	1,280	1,170	1,190
11	1,430	1,400	1,420	1,380	1,350	1,360	1,120	1,100	1,110	1,280	1,160	1,180
12	1,430	1,420	1,420	1,390	1,350	1,380	1,120	1,100	1,110	---	---	---
13	1,430	1,400	1,410	1,400	1,370	1,390	1,130	1,100	1,120	---	---	---
14	1,430	1,400	1,420	1,410	1,380	1,400	1,180	1,130	1,170	---	---	---
15	1,430	1,410	1,420	1,420	1,400	1,410	1,200	1,180	1,200	---	---	---
16	1,440	1,410	1,420	1,440	1,410	1,420	1,200	1,150	1,160	---	---	---
17	1,460	1,420	1,440	1,440	1,430	1,440	1,160	1,140	1,160	1,080	1,010	1,020
18	1,450	362	1,440	1,460	1,420	1,450	1,170	1,160	1,170	1,070	1,000	1,010
19	768	501	672	1,460	1,330	1,450	1,190	1,170	1,190	1,100	1,000	1,020
20	960	768	864	1,420	298	320	1,220	1,190	1,200	1,100	998	1,050
21	1,090	960	1,040	864	717	851	1,240	1,220	1,230	1,120	1,000	1,020
22	1,160	1,090	1,130	911	864	887	1,260	1,230	1,250	1,110	1,010	1,020
23	1,190	1,160	1,180	957	880	923	1,250	1,220	1,240	1,120	1,010	1,020
24	1,230	1,190	1,220	962	903	949	1,230	1,180	1,220	1,110	991	1,010
25	1,270	887	1,230	962	727	885	1,220	1,170	1,200	1,100	981	996
26	1,120	938	1,060	946	898	922	1,260	1,200	1,230	1,100	975	997
27	1,120	1,090	1,100	971	946	947	---	---	---	1,110	969	1,000
28	1,180	1,100	1,150	1,080	971	1,030	---	---	---	1,110	964	1,010
29	---	---	---	1,090	1,080	1,090	---	---	---	1,110	968	1,000
30	---	---	---	---	---	---	---	---	---	1,140	983	1,030
31	---	---	---	---	---	---	---	---	---	1,150	988	1,040
Max	1,460	1,420	1,440	---	---	---	---	---	---	---	---	---
Min	768	362	672	---	---	---	---	---	---	---	---	---

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	1,160	1,010	1,060	1,210	1,040	1,120	1,530	1,440	1,480	1,570	1,510	1,530
2	1,160	1,010	1,060	1,230	1,060	1,140	1,540	1,450	1,480	1,580	1,490	1,540
3	1,170	1,020	1,080	1,260	1,080	1,170	1,520	1,440	1,470	1,580	1,520	1,540
4	1,120	1,050	1,070	1,280	1,140	1,190	1,530	1,460	1,480	1,580	1,520	1,540
5	1,140	1,040	1,070	1,300	1,150	1,210	1,530	1,460	1,490	1,580	1,530	1,540
6	1,160	1,020	1,060	1,310	1,180	1,220	1,550	1,480	1,490	1,590	1,530	1,550
7	1,180	1,030	1,080	1,340	1,190	1,240	1,550	1,480	1,500	1,600	1,530	1,550
8	1,160	1,050	1,070	1,350	1,200	1,240	1,560	1,490	1,510	1,580	1,520	1,540
9	1,170	1,050	1,090	1,350	1,200	1,240	1,580	1,490	1,530	1,590	1,520	1,540
10	1,160	1,060	1,080	1,360	1,210	1,250	1,580	1,510	1,530	1,570	1,540	1,540
11	1,190	1,060	1,100	1,340	1,220	1,240	1,580	1,510	1,530	1,590	1,540	1,550
12	1,200	1,080	1,110	1,350	1,190	1,250	1,600	1,520	1,550	1,600	1,540	1,560
13	1,230	1,090	1,130	1,380	1,200	1,270	1,640	1,540	1,560	1,600	1,550	1,570
14	1,260	1,110	1,170	1,400	1,210	1,280	1,640	1,540	1,560	1,600	1,560	1,570
15	1,280	1,120	1,180	1,410	1,220	1,290	1,610	1,500	1,540	1,600	1,560	1,580
16	1,190	1,090	1,130	1,410	1,230	1,300	1,550	1,490	1,520	1,610	1,570	1,580
17	1,230	1,100	1,140	1,440	1,240	1,320	1,550	1,510	1,520	1,620	1,580	1,590
18	1,250	1,100	1,160	1,400	1,240	1,340	1,540	1,510	1,520	1,620	1,580	1,590
19	1,250	1,120	1,160	1,400	1,310	1,340	1,550	1,500	1,510	1,630	1,580	1,600
20	1,280	1,130	1,200	1,380	1,300	1,310	1,550	1,510	1,510	1,640	1,590	1,610
21	1,320	1,140	1,240	1,380	1,290	1,300	1,560	1,500	1,520	1,660	1,600	1,640
22	1,320	1,170	1,230	1,390	1,300	1,320	1,550	1,500	1,520	1,670	1,630	1,650
23	1,220	1,160	---	1,400	1,320	1,350	1,560	1,510	1,520	1,680	1,640	1,660
24	1,160	1,080	1,090	1,430	1,340	1,380	1,560	1,500	1,520	1,670	1,640	1,650
25	1,150	1,050	1,080	1,440	1,370	1,400	1,550	1,500	1,510	1,670	1,640	1,650
26	1,160	1,040	1,080	1,470	1,390	1,430	1,540	1,500	1,510	1,670	1,640	1,660
27	1,150	1,040	1,080	1,480	1,410	1,430	1,560	1,500	1,520	1,670	1,670	1,670
28	1,170	1,030	1,080	1,510	1,430	1,460	1,560	1,500	1,520	1,670	1,670	1,670
29	1,170	1,040	1,080	1,520	1,450	1,470	1,560	1,510	1,520	1,680	1,670	1,670
30	1,190	1,030	1,100	1,520	1,460	1,470	1,550	1,500	1,520	1,680	1,680	1,680
31	---	---	---	1,520	1,460	1,460	1,560	1,510	1,530	---	---	---
Max	1,320	1,170	---	1,520	1,460	1,470	1,640	1,540	1,560	1,680	1,680	1,680
Min	1,120	1,010	---	1,210	1,040	1,120	1,520	1,440	1,470	1,570	1,490	1,530

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued



11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	21.5	19.1	20.1	17.7	14.5	16.5	11.1	9.2	10.4	11.5	9.5	10.7
2	21.9	18.9	20.2	18.1	14.4	16.6	11.6	9.9	10.8	10.9	8.5	10.1
3	20.4	18.9	19.4	18.4	15.1	17.2	12.4	10.8	11.5	12.1	9.3	10.5
4	19.2	18.0	18.6	18.7	15.4	17.5	13.9	12.3	13.0	12.8	9.6	10.7
5	19.8	17.2	18.1	17.9	15.2	17.3	13.6	12.4	13.1	12.1	9.0	10.3
6	18.8	17.5	18.1	17.5	16.3	17.0	13.8	11.5	12.4	11.1	8.9	10.2
7	19.3	16.5	17.8	17.0	15.5	16.4	14.2	12.3	13.4	13.4	10.4	11.6
8	19.8	15.4	17.9	16.8	15.2	16.1	13.7	11.6	13.1	13.9	11.2	11.9
9	20.2	16.0	18.4	15.3	13.4	14.8	---	11.8	---	13.4	10.4	11.2
10	20.2	16.2	18.6	15.7	13.7	14.6	15.2	13.6	---	12.3	8.5	10.3
11	20.9	16.6	18.7	15.2	13.0	14.3	---	---	---	12.0	10.0	10.9
12	20.8	17.2	19.4	14.2	12.0	13.7	14.5	12.5	13.9	13.9	9.9	11.5
13	21.4	18.4	19.8	14.7	12.3	13.7	14.1	12.0	13.3	14.2	10.4	12.1
14	20.5	17.7	19.3	14.9	12.7	14.0	15.0	13.2	13.9	15.7	11.4	12.9
15	19.8	18.4	19.1	15.1	12.9	14.2	14.9	13.9	14.5	15.6	11.0	12.8
16	19.0	18.2	18.5	15.4	13.3	14.5	14.1	12.5	13.6	15.6	12.1	13.6
17	18.6	17.7	18.1	16.0	14.2	14.9	14.1	13.1	---	17.6	12.9	14.6
18	19.2	17.0	17.8	14.9	13.7	14.6	14.0	13.8	---	16.7	12.4	14.1
19	18.4	17.1	17.9	14.8	14.3	14.6	---	13.6	---	15.7	11.6	13.2
20	19.4	16.8	17.8	15.4	14.1	14.3	---	---	---	15.3	10.3	12.3
21	19.0	17.7	18.3	14.3	12.7	13.7	14.0	12.5	---	15.1	9.8	11.9
22	18.2	15.9	17.5	13.3	11.3	12.5	14.4	12.7	---	15.0	9.7	11.9
23	19.4	17.1	18.1	13.3	11.6	12.6	---	13.3	---	15.6	10.4	12.5
24	18.5	16.6	17.8	13.0	11.0	12.0	14.8	---	---	15.2	9.6	12.2
25	19.4	17.5	18.1	11.5	8.9	10.6	---	---	---	15.6	10.0	12.3
26	17.7	15.0	16.9	11.5	9.2	10.7	---	---	---	15.7	10.1	12.3
27	16.9	13.8	16.0	11.7	9.4	10.6	---	---	---	15.4	9.6	12.0
28	16.8	13.6	15.6	12.1	10.5	11.5	---	10.2	---	14.9	9.1	11.8
29	16.8	13.9	15.7	11.3	9.1	10.7	---	---	---	15.6	12.1	13.2
30	17.7	14.7	16.2	10.8	8.9	10.3	10.9	---	---	15.6	12.8	13.6
31	18.0	15.4	16.6	---	---	---	10.8	8.1	9.4	15.7	10.8	12.7
Max	21.9	19.1	20.2	18.7	16.3	17.5	---	---	---	17.6	12.9	14.6
Min	16.8	13.6	15.6	10.8	8.9	10.3	---	---	---	10.9	8.5	10.1

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

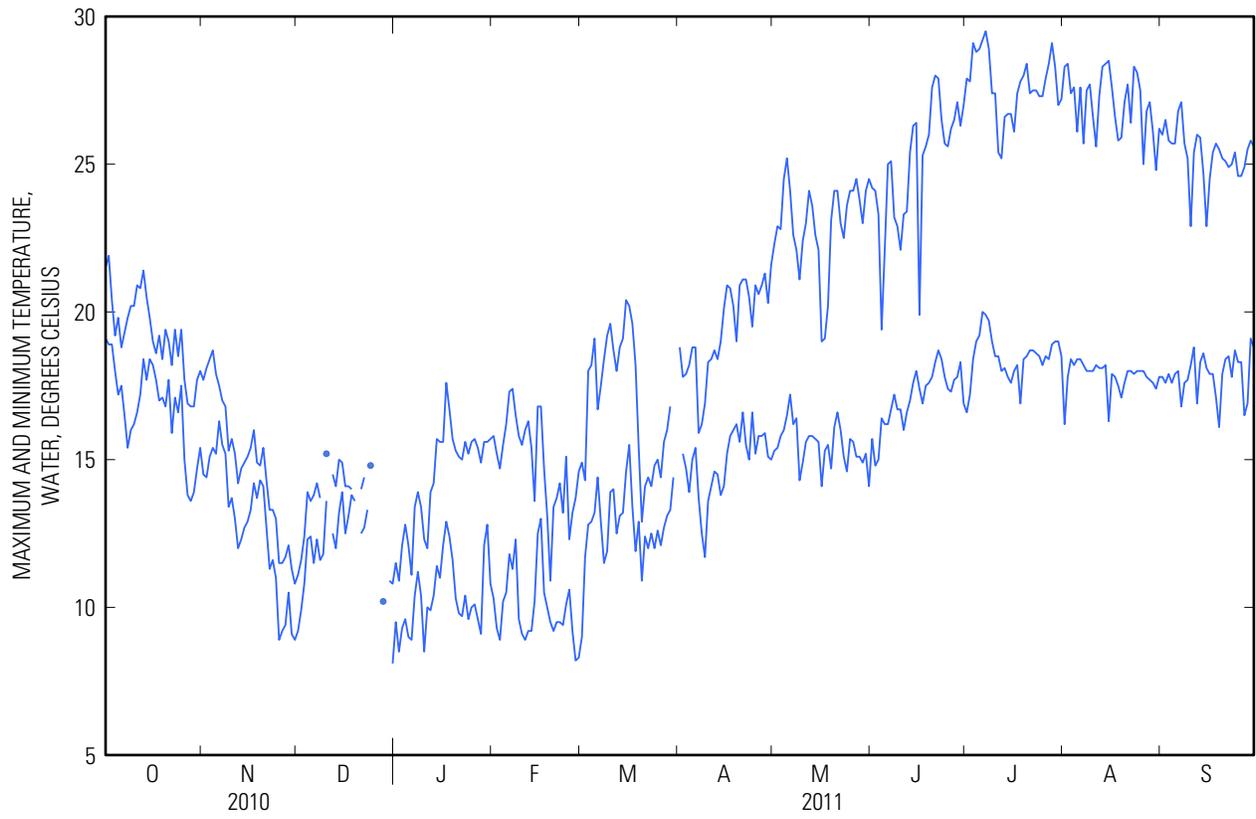
Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	15.8	10.3	12.3	14.9	9.0	11.6	18.8	---	---	22.3	15.3	18.3
2	15.2	9.3	11.8	14.3	11.7	12.6	17.8	15.2	15.3	22.9	15.4	18.7
3	14.7	8.9	11.4	18.0	12.8	14.6	17.9	14.7	15.2	22.8	15.8	18.8
4	15.5	10.2	11.9	18.2	12.9	14.9	18.2	13.9	15.6	24.5	16.0	19.9
5	16.2	10.5	12.8	19.1	13.2	15.4	18.8	15.0	16.5	25.2	16.5	20.0
6	17.3	11.8	13.5	16.7	14.4	15.2	18.8	15.4	16.4	24.1	17.2	19.2
7	17.4	11.3	13.7	17.5	12.9	14.2	15.9	13.7	14.9	22.6	16.2	18.0
8	16.5	12.3	13.8	18.4	11.5	14.2	16.2	12.5	13.5	22.1	16.4	17.5
9	15.8	9.6	12.1	19.2	11.9	14.8	16.9	11.7	13.7	21.1	14.3	16.6
10	15.5	9.1	11.8	19.6	13.9	15.5	18.3	13.6	15.2	22.4	14.9	17.6
11	16.0	8.9	11.5	18.7	14.0	15.0	18.4	14.1	15.2	23.0	15.6	17.7
12	16.3	9.2	11.9	18.0	12.5	14.4	18.7	14.6	15.7	24.1	15.8	18.7
13	15.4	9.2	11.8	18.8	13.1	15.2	18.4	14.5	15.4	23.6	15.8	18.3
14	13.6	10.2	12.0	19.1	13.2	15.1	19.0	13.8	15.6	22.6	15.7	17.8
15	16.8	12.5	13.9	20.4	14.6	16.2	20.1	14.1	16.5	22.1	15.6	17.5
16	16.8	13.0	13.9	20.2	15.5	16.5	20.9	15.2	17.3	19.0	14.1	16.6
17	14.7	10.5	12.8	19.6	13.4	15.3	20.8	15.8	17.4	19.1	15.3	16.9
18	13.1	10.0	12.2	18.2	11.9	14.6	20.2	16.0	17.1	20.2	15.5	16.6
19	10.9	9.5	10.3	15.4	12.9	13.9	19.0	16.2	16.9	23.1	14.7	17.9
20	13.4	9.2	10.9	12.9	10.9	11.5	20.9	15.6	17.6	24.1	16.1	18.5
21	13.7	9.5	11.4	14.1	12.4	12.7	21.1	16.6	17.4	24.1	16.6	18.2
22	14.2	9.5	11.3	14.4	12.0	13.2	21.1	15.5	17.1	23.0	16.0	17.4
23	13.2	9.4	11.5	14.1	12.5	12.9	20.5	15.0	17.4	22.5	15.1	16.9
24	15.1	10.1	11.9	14.8	12.0	12.8	19.5	16.6	17.7	23.6	14.6	17.5
25	12.3	10.6	11.6	15.0	12.6	13.8	20.9	15.2	17.8	24.1	15.7	18.4
26	13.2	9.2	10.5	14.4	12.1	13.0	20.6	15.8	17.8	24.1	15.6	17.8
27	13.7	8.2	10.4	15.6	12.7	13.8	20.9	15.8	17.8	24.5	15.1	17.7
28	14.6	8.3	10.6	16.0	13.1	14.5	21.3	15.9	17.9	23.8	15.1	18.0
29	---	---	---	16.8	13.3	14.5	20.3	15.1	17.5	23.0	14.9	17.3
30	---	---	---	---	14.4	---	21.6	15.0	17.5	24.1	15.2	17.4
31	---	---	---	---	---	---	---	---	---	24.5	14.1	18.1
Max	17.4	13.0	13.9	---	---	---	21.6	---	---	25.2	17.2	20.0
Min	10.9	8.2	10.3	---	---	---	15.9	---	---	19.0	14.1	16.6

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	24.2	15.7	17.5	27.9	16.6	20.5	28.3	16.2	20.2	26.0	17.8	19.6
2	24.1	14.8	17.2	27.8	17.2	20.6	28.4	17.8	20.2	26.5	17.6	20.2
3	23.3	15.0	18.0	29.1	18.4	21.8	27.4	18.4	19.6	25.8	17.9	19.6
4	19.4	16.4	17.3	28.8	19.0	21.9	27.6	18.2	20.4	25.7	17.6	19.9
5	22.1	16.2	17.7	28.9	19.2	22.6	26.1	18.4	19.6	25.7	17.9	19.9
6	25.0	16.2	18.8	29.2	20.0	22.5	27.6	18.4	19.8	26.8	18.0	20.3
7	25.1	16.7	19.0	29.5	19.9	22.2	25.7	18.2	19.4	27.1	16.8	20.8
8	23.2	17.2	18.3	28.9	19.7	21.5	27.5	18.0	19.5	25.7	17.6	19.4
9	22.9	16.7	18.0	27.4	19.0	20.4	27.7	18.0	19.5	25.2	17.7	19.6
10	22.1	16.7	17.7	27.4	18.5	19.9	26.6	18.0	19.3	22.9	18.2	19.4
11	23.3	16.0	17.6	25.4	18.5	19.4	25.6	18.2	19.3	25.4	18.8	19.8
12	23.4	16.6	18.2	25.2	18.0	19.2	27.3	18.1	19.4	26.0	16.9	20.1
13	25.4	17.0	19.0	26.6	18.1	19.6	28.3	18.1	19.8	25.9	18.3	20.0
14	26.3	17.6	19.4	26.7	17.8	19.2	28.4	18.2	20.2	24.7	18.6	19.4
15	26.4	18.0	19.6	26.7	17.6	19.6	28.5	16.3	19.9	22.9	18.1	18.9
16	19.9	17.4	18.6	26.1	18.0	19.6	27.6	17.9	19.5	24.5	17.9	19.1
17	25.3	16.9	18.9	27.4	18.2	19.9	26.6	17.8	19.2	25.4	17.9	19.1
18	25.6	17.5	19.1	27.8	16.9	20.7	25.8	17.5	18.8	25.7	17.1	19.9
19	26.0	17.6	19.3	28.0	18.4	20.8	25.9	17.1	18.8	25.5	16.1	19.6
20	27.6	17.8	20.7	28.4	18.5	20.8	27.1	17.6	19.2	25.2	17.9	20.5
21	28.0	18.3	20.6	27.4	18.7	20.2	27.7	18.0	19.6	25.1	18.4	20.7
22	27.9	18.7	20.8	27.5	18.7	19.9	26.4	18.0	19.3	24.9	18.5	20.3
23	26.5	18.4	---	27.5	18.6	19.9	28.3	17.9	20.3	25.0	17.8	20.2
24	25.7	17.8	19.1	27.3	18.5	19.7	28.1	18.0	20.3	25.4	18.7	20.2
25	25.6	17.4	19.0	27.3	18.2	19.9	27.5	18.0	20.1	24.6	18.3	19.4
26	26.2	17.3	19.6	27.9	18.5	20.8	25.0	18.0	19.6	24.6	18.3	19.0
27	26.5	17.7	19.7	28.4	18.4	20.2	26.8	17.8	19.8	24.9	16.5	19.6
28	27.1	17.8	20.2	29.1	18.9	20.8	27.1	17.7	20.1	25.5	16.9	20.5
29	26.3	18.3	19.6	28.3	19.0	20.3	26.1	17.6	19.6	25.8	19.1	20.3
30	27.0	16.9	19.9	27.0	19.0	19.8	24.8	17.4	19.5	25.6	18.8	20.1
31	---	---	---	27.2	18.5	19.4	26.2	17.8	19.9	---	---	---
Max	28.0	18.7	---	29.5	20.0	22.6	28.5	18.4	20.4	27.1	19.1	20.8
Min	19.4	14.8	---	25.2	16.6	19.2	24.8	16.2	18.8	22.9	16.1	18.9

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued



11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 2

[%, percent; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; --, no data]

Sample date-time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, μS/cm at 25°C (00095)	Temperature, water, °C (00010)	Depth to bottom at sample location, ft (81903)	Sampling depth, ft (00003)	Stream width, ft (00004)	Location in cross section, distance from left bank looking downstream, ft (00009)
11-18-2010 1330	--	--	--	8.0	1,450	15.0	0.70	0.35	35.0	3.00
11-18-2010 1331	--	--	--	8.0	1,460	14.9	.99	.50	35.0	6.00
11-18-2010 1332	--	--	--	8.0	1,450	14.9	.80	.40	35.0	9.00
11-18-2010 1333	--	--	--	8.0	1,450	14.8	.65	.32	35.0	12.0
11-18-2010 1334	--	--	--	8.0	1,450	14.8	.60	.30	35.0	15.0
11-18-2010 1335	--	--	--	8.0	1,450	14.8	.70	.35	35.0	18.0
11-18-2010 1336	--	--	--	8.0	1,450	14.8	.80	.40	35.0	21.0
11-18-2010 1337	--	--	--	8.0	1,450	15.0	.87	.44	35.0	24.0
11-18-2010 1338	--	--	--	8.0	1,450	15.2	.70	.35	35.0	27.0
11-18-2010 1340	--	--	--	8.0	1,460	15.4	.30	.15	35.0	30.0
01-05-2011 1456	--	--	--	8.0	1,050	12.6	.50	.25	83.0	5.00
01-05-2011 1457	--	--	--	8.0	1,060	12.5	.78	.39	83.0	10.0
01-05-2011 1458	--	--	--	8.0	1,060	12.5	.92	.46	83.0	15.0
01-05-2011 1459	--	--	--	8.0	1,060	12.5	.58	.29	83.0	20.0
01-05-2011 1500	--	--	--	7.9	1,060	12.5	.69	.35	83.0	25.0
01-05-2011 1501	--	--	--	7.9	1,060	12.4	.66	.33	83.0	30.0
01-05-2011 1502	--	--	--	7.9	1,060	12.4	.77	.38	83.0	35.0
01-05-2011 1503	--	--	--	7.9	1,060	12.4	1.01	.50	83.0	40.0
01-05-2011 1504	--	--	--	7.9	1,060	12.4	1.29	.65	83.0	45.0
01-05-2011 1505	--	--	--	7.8	1,060	12.4	1.60	.80	83.0	50.0
01-05-2011 1506	--	--	--	7.8	1,060	12.4	1.75	.87	83.0	55.0
01-05-2011 1507	--	--	--	7.8	1,060	12.4	1.88	.94	83.0	60.0
01-05-2011 1508	--	--	--	7.8	1,060	12.4	1.71	.85	83.0	65.0
01-05-2011 1509	--	--	--	7.8	1,060	12.4	1.50	.75	83.0	70.0
01-05-2011 1510	--	--	--	7.8	1,060	12.4	.78	.39	83.0	75.0
03-03-2011 1125	--	--	--	8.3	1,220	14.9	1.40	.70	74.0	7.00
03-03-2011 1126	--	--	--	8.3	1,220	14.9	1.08	.54	74.0	14.0
03-03-2011 1127	--	--	--	8.3	1,220	14.9	.80	.40	74.0	21.0
03-03-2011 1128	--	--	--	8.3	1,220	14.9	.72	.36	74.0	28.0
03-03-2011 1129	--	--	--	8.3	1,220	14.9	.80	.40	74.0	35.0
03-03-2011 1130	--	--	--	8.3	1,220	14.9	1.10	.55	74.0	42.0
03-03-2011 1131	--	--	--	8.3	1,220	14.9	1.50	.75	74.0	49.0
03-03-2011 1132	--	--	--	8.3	1,220	14.9	1.30	.65	74.0	56.0
03-03-2011 1133	--	--	--	8.3	1,220	15.0	.44	.22	74.0	63.0
03-03-2011 1134	--	--	--	8.3	1,220	15.1	.34	.17	74.0	70.0

Note: Instantaneous discharge at time of cross-sectional measurements: Nov. 18, 9.0 ft³/s; Jan. 5, 134 ft³/s, Mar. 3, 82.0 ft³/s.

11133000 Santa Ynez River at Narrows, near Lompoc, CA—Continued

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 2

[% , percent; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter; --, no data]

Sample date-time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, μS/cm at 25°C (00095)	Temperature, water, °C (00010)	Depth to bottom at sample location, ft (81903)	Sampling depth, ft (00003)	Stream width, ft (00004)	Location in cross section, distance from left bank looking downstream, ft (00009)
04-14-2011 1043	768	9.3	93	7.9	1,010	15.6	.20	.10	106	98.0
04-14-2011 1044	768	9.6	94	8.1	985	15.2	1.40	.70	106	88.0
04-14-2011 1045	768	9.6	94	8.1	983	15.1	1.38	.69	106	78.0
04-14-2011 1046	768	9.6	95	8.1	983	15.1	1.61	.80	106	68.0
04-14-2011 1047	768	9.6	95	8.1	981	15.1	1.62	.81	106	58.0
04-14-2011 1048	768	9.6	95	8.1	980	15.0	2.25	1.12	106	48.0
04-14-2011 1049	768	9.6	95	8.1	981	15.0	2.29	1.14	106	38.0
04-14-2011 1050	768	9.6	95	8.1	981	15.0	2.08	1.04	106	28.0
04-14-2011 1051	768	9.6	95	8.1	981	15.0	1.42	.71	106	18.0
04-14-2011 1052	768	9.6	95	8.1	981	15.0	1.09	.54	106	8.00
05-16-2011 0941	--	--	--	8.1	1,290	16.4	.28	.14	73.0	69.0
05-16-2011 0942	--	--	--	8.1	1,290	15.9	.51	.26	73.0	59.0
05-16-2011 0943	--	--	--	8.1	1,290	15.7	1.13	.56	73.0	49.0
05-16-2011 0944	--	--	--	8.1	1,290	15.7	1.40	.70	73.0	39.0
05-16-2011 0945	--	--	--	8.1	1,290	15.7	1.20	.60	73.0	29.0
05-16-2011 0946	--	--	--	8.1	1,290	15.6	1.33	.66	73.0	19.0
05-16-2011 0947	--	--	--	8.1	1,290	15.6	1.47	.74	73.0	9.00
06-23-2011 1045	--	--	--	8.1	1,390	20.1	.53	.26	35.0	32.0
06-23-2011 1046	--	--	--	8.1	1,390	20.0	.73	.36	35.0	28.0
06-23-2011 1047	--	--	--	8.1	1,390	19.9	.80	.40	35.0	24.0
06-23-2011 1048	--	--	--	8.1	1,390	19.9	.75	.37	35.0	20.0
06-23-2011 1049	--	--	--	8.1	1,390	19.9	.65	.33	35.0	16.0
06-23-2011 1050	--	--	--	8.1	1,390	19.9	.55	.27	35.0	12.0
06-23-2011 1051	--	--	--	8.1	1,390	20.0	.30	.15	35.0	8.00
06-23-2011 1052	--	--	--	8.1	1,390	20.0	.28	.14	35.0	4.00
08-16-2011 0952	--	--	--	7.9	1,580	19.2	.35	.18	12.7	12.2
08-16-2011 0953	--	--	--	7.9	1,580	19.2	.43	.22	12.7	11.2
08-16-2011 0954	--	--	--	7.9	1,580	19.2	.52	.26	12.7	10.2
08-16-2011 0955	--	--	--	7.9	1,580	19.2	.57	.28	12.7	9.20
08-16-2011 0956	--	--	--	7.9	1,580	19.2	.69	.35	12.7	8.20
08-16-2011 0957	--	--	--	7.9	1,580	19.2	.82	.41	12.7	7.20
08-16-2011 0958	--	--	--	7.9	1,580	19.2	.90	.45	12.7	6.20
08-16-2011 0959	--	--	--	7.9	1,580	19.2	.90	.45	12.7	5.20
08-16-2011 1000	--	--	--	7.9	1,580	19.2	.92	.46	12.7	4.20
08-16-2011 1001	--	--	--	7.9	1,580	19.2	.74	.37	12.7	3.20
08-16-2011 1002	--	--	--	7.9	1,580	19.2	.55	.28	12.7	2.20

Note: Instantaneous discharge at time of cross-sectional measurements: Apr. 14, 371 ft³/s, May 16, 77.0 ft³/s; June 23, 24.0 ft³/s, Aug. 16, 2.7 ft³/s.