



Water-Data Report 2008

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA

San Onofre Creek Basin

LOCATION.--Lat 33°22'53", long 117°34'43" referenced to North American Datum of 1983, in NW ¼ NE ¼ sec.23, T.9 S., R.7 W., San Diego County, CA, Hydrologic Unit 18070301, at mouth of San Onofre Creek, at the Pacific Ocean near San Clemente, and 0.5 mi downstream from San Onofre Creek at San Onofre (station 11046250).

DRAINAGE AREA.--42.4 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003 to current year.

CHEMICAL DATA: Water years 2005 to current year.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: June 2003 to current year.

pH: June 2003 to current year.

SPECIFIC CONDUCTANCE: June 2003 to current year.

WATER TEMPERATURE: June 2003 to current year.

INSTRUMENTATION.--Water-quality monitor since June 2003.

REMARKS.--Interruption of records at times due to malfunction of recording equipment and the probes being out of water.

Dissolved oxygen records rated poor through Aug. 13, and fair thereafter.

pH records rated good except for July 21 to Sept. 17, which are fair.

Specific conductance records rated good.

Water temperature records rated good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum recorded, 19.2 mg/L, June 22, 2006; minimum recorded, <0.2 mg/L, Mar. 6, 7, 2004.

pH: Maximum recorded, 9.0 standard units, July 6-11, 2006; minimum recorded, 6.5 standard units, May 8-10, June 8, 9, 2004.

SPECIFIC CONDUCTANCE: Maximum recorded, 51,700 microsiemens, Dec. 13, 2004; minimum recorded, 266 microsiemens, Feb. 21, 2005.

WATER TEMPERATURE: Maximum recorded, 33.0°C, July 27, 2005; minimum recorded, 6.6°C, Jan. 16, 2007.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum recorded, 17.4 mg/L, Dec. 17, 18; minimum recorded, 0.6 mg/L, Dec. 2.

pH: Maximum recorded, 8.6 standard units, Oct. 26, Nov. 19, and Jan. 25; minimum recorded, 6.6 standard units, Mar. 11.

SPECIFIC CONDUCTANCE: Maximum recorded, 1,480 microsiemens, Aug. 1; minimum recorded, 315 microsiemens, Jan. 28.

WATER TEMPERATURE: Maximum recorded, 27.0°C, Aug. 9; minimum recorded, 7.2°C, Dec. 28.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, deg C water, (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium	
													frac- tion of cations percent (00932)	
Mar														
25...	1235	765	9.8	105	7.8	1,300	18.5	360	89.9	33.7	3.62	2.8	42	
Jul														
30...	1700	761	9.0	109	7.8	1,450	24.5	310	71.2	33.0	4.28	3.6	50	

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt infl pt titr., field, mg/L (00453)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)
Mar 25...	124	252	308	168	.35	20.4	131	E723	1.01	741	.22	<.020	<.04
Jul 30...	148	276	337	161	.39	21.1	139	E745	1.04	766	.31	<.020	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Boron, water, fltrd, µg/L (01020)	Iron, water, fltrd, µg/L (01046)	Mangan- ese, water, fltrd, µg/L (01056)
Mar 25...	<.002	E.006	<.04	206	12	49.7
Jul 30...	<.002	.014	<.04	270	E7	64.9

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

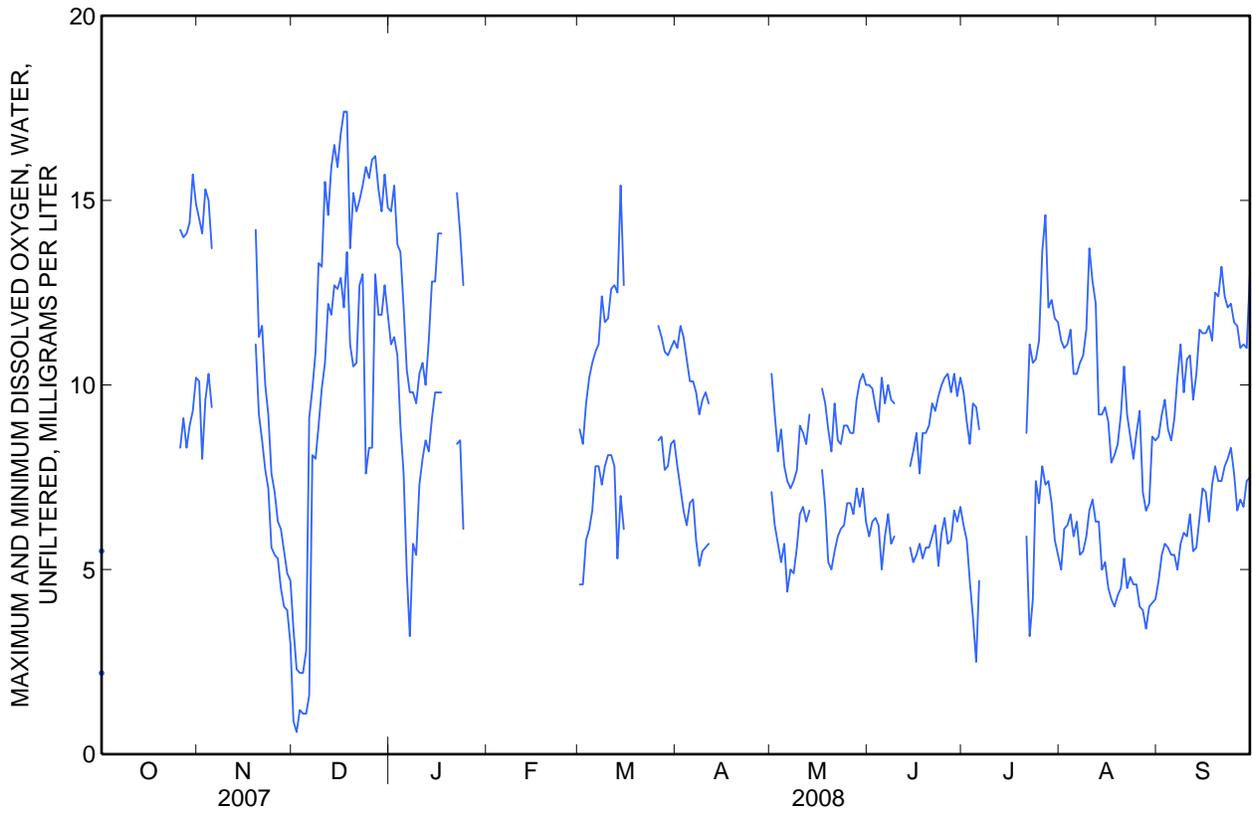
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	5.5	2.2	14.5	10.1	3.4	0.9	14.7	11.1	---	---	8.8	4.6
2	---	---	14.1	8.0	2.3	0.6	15.4	11.3	---	---	8.4	4.6
3	---	---	15.3	9.6	2.2	1.2	13.8	10.8	---	---	9.5	5.8
4	---	---	15.0	10.3	2.2	1.1	13.6	8.9	---	---	10.2	6.1
5	---	---	13.7	9.4	2.8	1.1	12.1	7.6	---	---	10.6	6.6
6	---	---	---	---	9.1	1.6	10.4	4.9	---	---	10.9	7.8
7	---	---	---	---	9.9	8.1	9.8	3.2	---	---	11.1	7.8
8	---	---	---	---	10.9	8.0	9.8	5.7	---	---	12.4	7.3
9	---	---	---	---	13.3	8.9	9.5	5.4	---	---	11.7	7.8
10	---	---	---	---	13.2	9.9	10.3	7.3	---	---	11.8	8.1
11	---	---	---	---	15.5	10.6	10.6	8.0	---	---	12.6	8.1
12	---	---	---	---	14.6	12.2	10.0	8.5	---	---	12.7	7.8
13	---	---	---	---	15.9	11.9	11.2	8.2	---	---	12.5	5.3
14	---	---	---	---	16.5	12.7	12.8	9.1	---	---	15.4	7.0
15	---	---	---	---	15.9	12.6	12.8	9.8	---	---	12.7	6.1
16	---	---	---	---	16.8	12.9	14.1	9.8	---	---	---	---
17	---	---	---	---	17.4	12.1	14.1	9.8	---	---	---	---
18	---	---	---	---	17.4	13.6	---	---	---	---	---	---
19	---	---	14.2	11.1	13.7	11.1	---	---	---	---	---	---
20	---	---	11.3	9.2	15.2	10.5	---	---	---	---	---	---
21	---	---	11.6	8.5	14.7	10.6	---	---	---	---	---	---
22	---	---	10.0	7.7	15.0	12.7	15.2	8.4	---	---	---	---
23	---	---	9.2	7.2	15.4	13.0	14.1	8.5	---	---	---	---
24	---	---	7.6	5.6	15.9	7.6	12.7	6.1	---	---	---	---
25	---	---	7.1	5.4	15.6	8.3	---	---	---	---	---	---
26	14.2	8.3	6.3	5.3	16.1	8.3	---	---	---	---	11.6	8.5
27	14.0	9.1	6.1	4.5	16.2	13.0	---	---	---	---	11.3	8.6
28	14.1	8.3	5.5	4.0	15.3	11.9	---	---	---	---	10.9	7.7
29	14.4	8.9	4.9	3.9	14.7	11.9	---	---	---	---	10.8	7.8
30	15.7	9.3	4.7	3.0	15.7	12.7	---	---	---	---	11.0	8.4
31	14.9	10.2	---	---	14.8	11.9	---	---	---	---	11.2	8.5
Month	---	---	---	---	17.4	0.6	---	---	---	---	---	---

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	11.0	7.8	10.3	7.1	10.0	5.9	9.8	6.2	11.2	5.0	8.6	4.7
2	11.6	7.2	9.2	6.2	9.9	6.3	9.0	5.8	11.0	6.1	9.2	5.4
3	11.3	6.6	8.2	5.7	9.4	6.4	8.4	4.7	11.1	6.2	9.6	5.7
4	10.7	6.2	8.8	5.2	9.0	6.2	9.5	3.7	11.5	6.5	8.8	5.6
5	10.1	6.8	7.8	5.7	10.2	5.0	9.4	2.5	10.3	5.9	8.5	5.4
6	10.1	6.9	7.4	4.4	9.5	5.9	8.8	4.7	10.3	6.3	9.1	5.4
7	9.8	5.8	7.2	5.0	10.0	6.5	---	---	10.6	5.4	10.2	5.0
8	9.2	5.1	7.4	4.9	9.6	5.7	---	---	10.8	5.5	11.1	5.7
9	9.6	5.5	7.7	5.6	9.5	5.9	---	---	11.5	5.9	9.8	6.0
10	9.8	5.6	8.9	6.5	---	---	---	---	13.7	6.6	10.7	5.9
11	9.5	5.7	8.7	6.7	---	---	---	---	12.8	6.9	10.8	6.5
12	---	---	8.4	6.3	---	---	---	---	12.2	6.3	9.6	5.5
13	---	---	9.2	6.6	---	---	---	---	9.2	6.3	10.3	5.6
14	---	---	---	---	7.8	5.6	---	---	9.2	5.0	11.5	6.4
15	---	---	---	---	8.2	5.2	---	---	9.4	5.2	11.4	7.2
16	---	---	---	---	8.7	5.4	---	---	9.0	4.5	11.4	7.1
17	---	---	9.9	7.7	7.6	5.7	---	---	7.9	4.2	11.6	6.3
18	---	---	9.5	6.7	8.7	5.3	---	---	8.1	4.0	11.2	7.3
19	---	---	8.8	5.2	8.7	5.6	---	---	8.4	4.3	12.5	7.8
20	---	---	8.2	5.0	8.9	5.6	---	---	9.2	4.5	12.4	7.4
21	---	---	9.5	5.5	9.5	5.9	8.7	5.9	10.5	5.3	13.2	7.4
22	---	---	8.5	5.9	9.3	6.2	11.1	3.2	9.2	4.5	12.4	7.8
23	---	---	8.4	6.1	9.7	5.1	10.6	4.2	8.6	4.8	12.1	8.0
24	---	---	8.9	6.2	10.0	6.0	10.7	7.4	8.0	4.6	12.2	8.3
25	---	---	8.9	6.8	10.2	6.4	11.2	6.8	8.7	4.6	11.7	7.6
26	---	---	8.7	6.8	10.3	5.7	13.6	7.8	9.3	4.0	11.6	6.6
27	---	---	8.7	6.5	9.8	5.8	14.6	7.3	7.1	3.9	11.0	6.9
28	---	---	9.6	7.2	10.3	6.6	12.1	7.4	6.6	3.4	11.1	6.7
29	---	---	10.1	6.7	9.7	6.3	12.3	6.8	6.8	4.0	11.0	7.4
30	---	---	10.3	7.2	10.2	6.7	11.8	5.8	8.6	4.1	13.0	7.5
31	---	---	10.0	6.3	---	---	11.7	5.4	8.5	4.2	---	---
Month	---	---	---	---	---	---	---	---	13.7	3.4	13.2	4.7

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued



11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

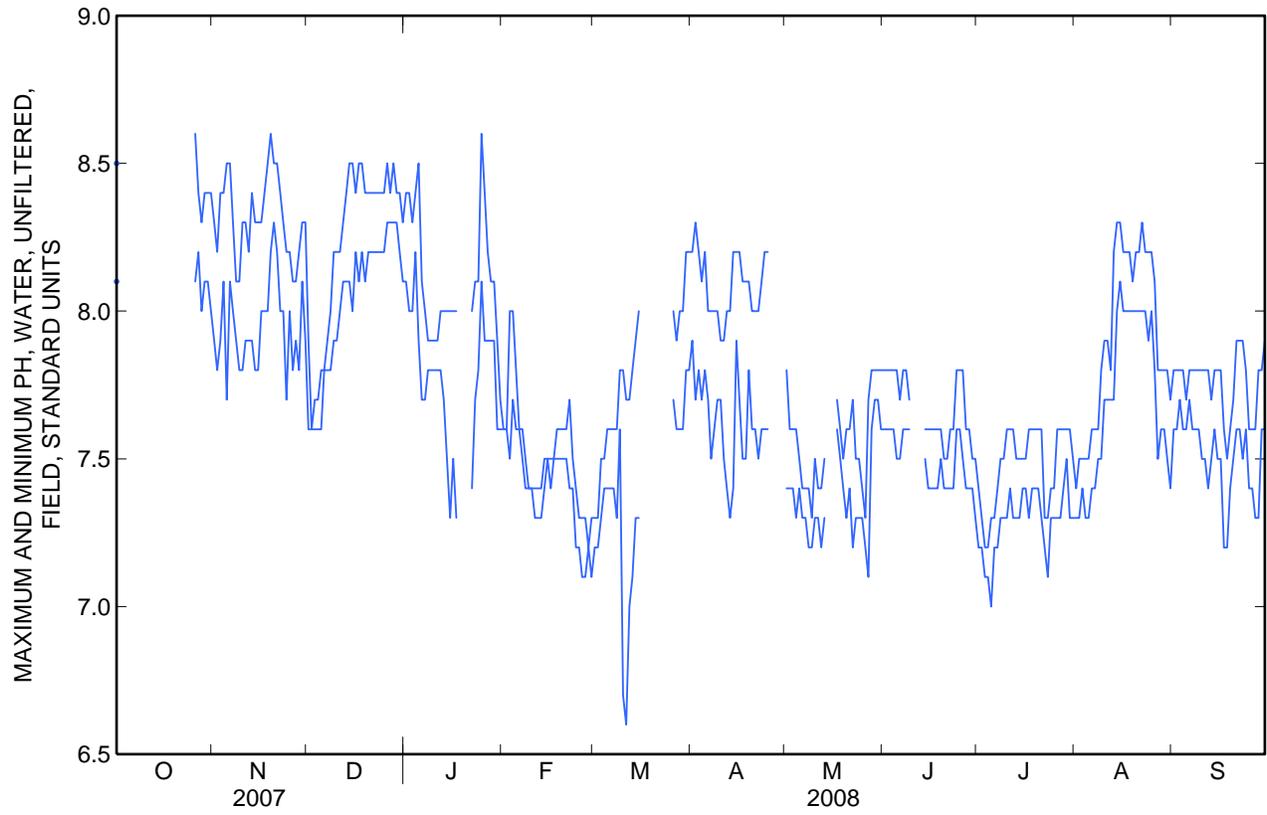
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	8.5	8.1	8.3	7.9	7.9	7.6	8.4	8.1	7.6	7.6	7.3	7.2
2	---	---	8.2	7.8	7.6	7.6	8.4	8.0	7.6	7.6	7.3	7.2
3	---	---	8.4	7.9	7.7	7.6	8.3	8.0	8.0	7.5	7.5	7.3
4	---	---	8.4	8.1	7.7	7.6	8.4	8.2	8.0	7.7	7.5	7.4
5	---	---	8.5	7.7	7.8	7.6	8.5	7.9	7.8	7.6	7.6	7.4
6	---	---	8.5	8.1	7.8	7.8	8.1	7.7	7.6	7.6	7.6	7.4
7	---	---	8.3	8.0	7.9	7.8	8.0	7.7	7.6	7.5	7.6	7.4
8	---	---	8.1	7.9	8.0	7.8	7.9	7.8	7.5	7.4	7.6	7.3
9	---	---	8.1	7.8	8.2	7.9	7.9	7.8	7.4	7.4	7.8	7.6
10	---	---	8.3	7.8	8.2	7.9	7.9	7.8	7.4	7.4	7.8	6.7
11	---	---	8.3	7.9	8.2	8.0	7.9	7.8	7.4	7.3	7.7	6.6
12	---	---	8.2	7.9	8.3	8.1	8.0	7.8	7.4	7.3	7.7	7.0
13	---	---	8.4	7.9	8.4	8.1	8.0	7.7	7.4	7.3	7.8	7.1
14	---	---	8.3	7.8	8.5	8.1	8.0	7.5	7.5	7.4	7.9	7.3
15	---	---	8.3	7.8	8.5	8.0	8.0	7.3	7.5	7.5	8.0	7.3
16	---	---	8.3	8.0	8.4	8.2	8.0	7.5	7.5	7.4	---	---
17	---	---	8.4	8.0	8.5	8.1	8.0	7.3	7.5	7.5	---	---
18	---	---	8.5	8.0	8.5	8.2	---	---	7.6	7.5	---	---
19	---	---	8.6	8.2	8.4	8.1	---	---	7.6	7.5	---	---
20	---	---	8.5	8.3	8.4	8.2	---	---	7.6	7.5	---	---
21	---	---	8.5	8.2	8.4	8.2	---	---	7.6	7.5	---	---
22	---	---	8.4	8.0	8.4	8.2	8.0	7.4	7.7	7.4	---	---
23	---	---	8.3	8.0	8.4	8.2	8.1	7.7	7.5	7.4	---	---
24	---	---	8.2	7.7	8.4	8.2	8.1	7.8	7.4	7.2	---	---
25	---	---	8.2	8.0	8.4	8.2	8.6	8.1	7.3	7.2	---	---
26	8.6	8.1	8.1	7.8	8.5	8.3	8.4	7.9	7.3	7.1	8.0	7.7
27	8.4	8.2	8.1	7.9	8.4	8.3	8.2	7.9	7.3	7.1	7.9	7.6
28	8.3	8.0	8.2	7.8	8.5	8.3	8.1	7.9	7.2	7.2	8.0	7.6
29	8.4	8.1	8.3	8.1	8.4	8.3	8.1	7.9	7.3	7.1	8.0	7.6
30	8.4	8.1	8.3	7.9	8.4	8.2	7.9	7.6	---	---	8.2	7.8
31	8.4	8.0	---	---	8.3	8.1	7.7	7.6	---	---	8.2	7.8
Month	---	---	8.6	7.7	8.5	7.6	---	---	8.0	7.1	---	---

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	8.2	7.9	7.8	7.4	7.8	7.6	7.4	7.2	7.4	7.3	7.8	7.6
2	8.3	7.7	7.6	7.4	7.8	7.6	7.3	7.2	7.5	7.3	7.8	7.6
3	8.2	7.8	7.6	7.4	7.8	7.6	7.2	7.1	7.5	7.4	7.8	7.7
4	8.1	7.7	7.6	7.3	7.8	7.6	7.2	7.1	7.5	7.3	7.8	7.6
5	8.2	7.8	7.5	7.4	7.8	7.5	7.3	7.0	7.5	7.3	7.7	7.6
6	8.0	7.7	7.4	7.3	7.7	7.5	7.3	7.2	7.6	7.4	7.8	7.7
7	8.0	7.5	7.4	7.3	7.8	7.6	7.4	7.2	7.6	7.4	7.8	7.6
8	8.0	7.6	7.4	7.2	7.8	7.6	7.5	7.3	7.6	7.5	7.8	7.6
9	8.0	7.7	7.3	7.2	7.7	7.6	7.5	7.3	7.8	7.5	7.8	7.6
10	7.9	7.7	7.5	7.3	---	---	7.6	7.3	7.9	7.7	7.8	7.5
11	7.9	7.5	7.4	7.3	---	---	7.6	7.4	7.9	7.7	7.8	7.5
12	8.0	7.4	7.4	7.2	---	---	7.6	7.3	7.8	7.7	7.8	7.4
13	8.0	7.3	7.5	7.3	---	---	7.5	7.3	8.2	7.7	7.7	7.5
14	8.2	7.4	---	---	7.6	7.5	7.5	7.3	8.3	8.0	7.8	7.6
15	8.2	7.9	---	---	7.6	7.4	7.5	7.4	8.3	8.1	7.8	7.5
16	8.2	7.7	---	---	7.6	7.4	7.5	7.4	8.2	8.0	7.8	7.5
17	8.1	7.5	7.7	7.6	7.6	7.4	7.6	7.3	8.2	8.0	7.6	7.2
18	8.1	7.5	7.6	7.5	7.6	7.4	7.6	7.4	8.2	8.0	7.5	7.2
19	8.1	7.8	7.5	7.4	7.6	7.5	7.6	7.4	8.1	8.0	7.6	7.4
20	8.0	7.6	7.6	7.3	7.5	7.4	7.6	7.4	8.2	8.0	7.7	7.5
21	8.0	7.6	7.6	7.4	7.5	7.4	7.6	7.3	8.2	8.0	7.9	7.6
22	8.0	7.5	7.7	7.2	7.6	7.4	7.3	7.2	8.3	8.0	7.9	7.6
23	8.1	7.6	7.5	7.3	7.6	7.4	7.3	7.1	8.2	8.0	7.9	7.5
24	8.2	7.6	7.5	7.3	7.8	7.6	7.4	7.3	8.2	7.9	7.8	7.6
25	8.2	7.6	7.4	7.3	7.8	7.6	7.4	7.3	8.2	8.0	7.6	7.4
26	---	---	7.3	7.2	7.8	7.5	7.6	7.3	8.1	7.8	7.6	7.4
27	---	---	7.7	7.1	7.6	7.4	7.6	7.3	7.8	7.5	7.6	7.3
28	---	---	7.8	7.6	7.6	7.4	7.6	7.4	7.8	7.6	7.8	7.3
29	---	---	7.8	7.7	7.5	7.4	7.6	7.5	7.8	7.6	7.8	7.6
30	---	---	7.8	7.7	7.5	7.3	7.6	7.3	7.8	7.5	7.9	7.6
31	---	---	7.8	7.6	---	---	7.5	7.3	7.7	7.4	---	---
Month	---	---	---	---	---	---	7.6	7.0	8.3	7.3	7.9	7.2

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued



11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

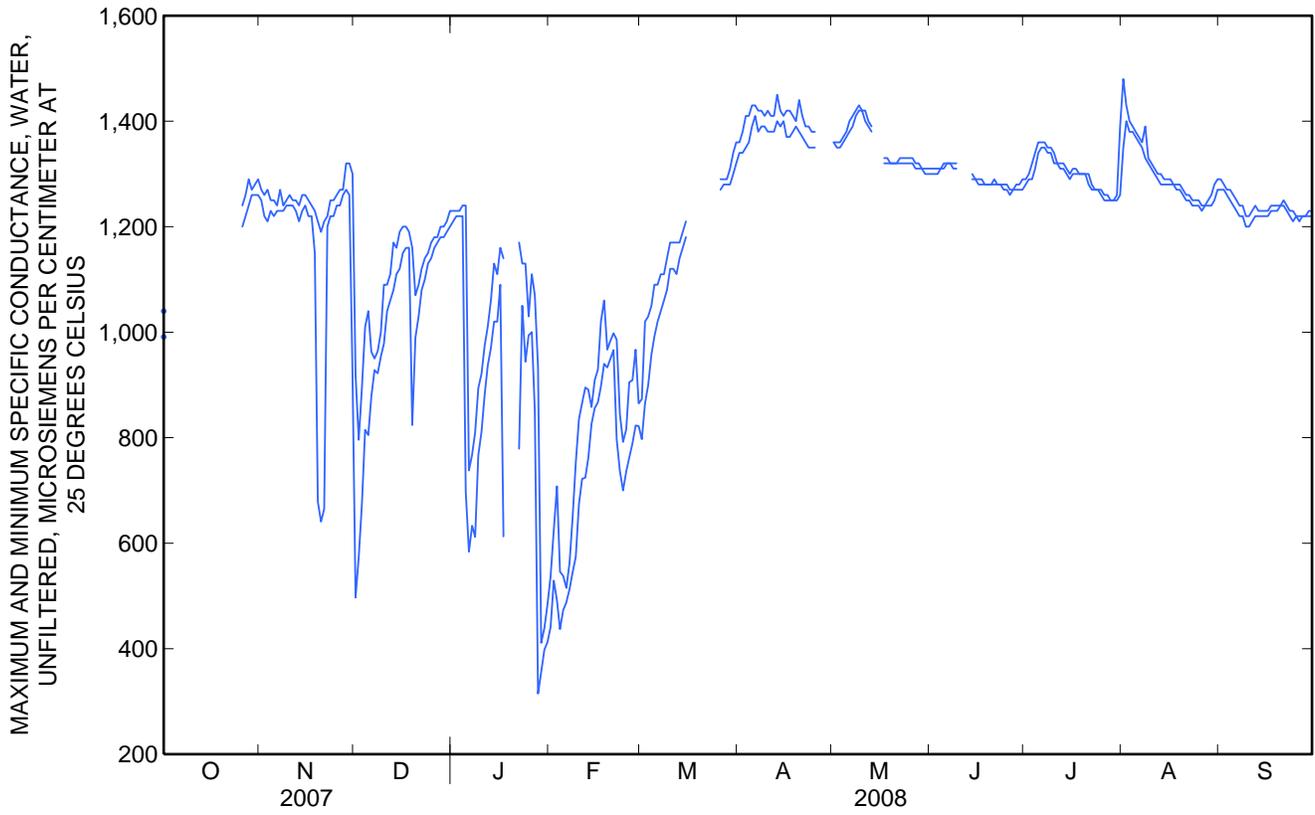
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	1,040	991	1,270	1,250	919	497	1,230	1,210	537	441	873	797
2	---	---	1,260	1,220	796	574	1,230	1,220	625	529	1,020	865
3	---	---	1,270	1,210	895	675	1,230	1,220	708	491	1,030	900
4	---	---	1,250	1,230	1,010	815	1,240	1,220	546	437	1,050	957
5	---	---	1,250	1,220	1,040	805	1,240	698	538	473	1,090	992
6	---	---	1,240	1,230	963	878	738	584	515	488	1,090	1,020
7	---	---	1,270	1,230	950	928	768	633	563	513	1,110	1,040
8	---	---	1,240	1,230	964	922	810	612	648	544	1,110	1,060
9	---	---	1,250	1,240	1,000	954	894	767	752	574	1,140	1,080
10	---	---	1,260	1,240	1,090	978	921	811	835	674	1,170	1,120
11	---	---	1,250	1,240	1,090	1,040	975	882	866	722	1,170	1,120
12	---	---	1,250	1,230	1,110	1,060	1,010	936	895	724	1,170	1,110
13	---	---	1,240	1,210	1,170	1,080	1,060	970	891	762	1,170	1,140
14	---	---	1,260	1,230	1,160	1,110	1,130	1,020	858	826	1,190	1,160
15	---	---	1,260	1,240	1,190	1,120	1,110	1,020	909	856	1,210	1,180
16	---	---	1,250	1,220	1,200	1,150	1,160	1,090	929	867	---	---
17	---	---	1,240	1,220	1,200	1,160	1,140	613	1,020	897	---	---
18	---	---	1,230	1,150	1,190	1,160	---	---	1,060	940	---	---
19	---	---	1,210	679	1,160	824	---	---	967	933	---	---
20	---	---	1,190	641	1,070	990	---	---	984	950	---	---
21	---	---	1,210	665	1,090	1,030	---	---	998	966	---	---
22	---	---	1,220	1,200	1,120	1,080	1,170	779	986	797	---	---
23	---	---	1,250	1,220	1,140	1,100	1,130	1,050	845	737	---	---
24	---	---	1,250	1,220	1,150	1,130	1,130	944	792	700	---	---
25	---	---	1,260	1,240	1,170	1,140	1,030	994	816	736	---	---
26	1,240	1,200	1,270	1,240	1,180	1,160	1,110	1,000	905	762	1,290	1,270
27	1,260	1,220	1,270	1,260	1,180	1,170	1,070	850	909	789	1,290	1,280
28	1,290	1,240	1,320	1,270	1,200	1,180	933	315	967	823	1,290	1,280
29	1,270	1,260	1,320	1,260	1,200	1,180	411	356	865	822	1,310	1,280
30	1,280	1,260	1,300	919	1,210	1,190	439	398	---	---	1,340	1,300
31	1,290	1,260	---	---	1,230	1,200	483	412	---	---	1,360	1,320
Month	---	---	1,320	641	1,230	497	---	---	1,060	437	---	---

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	1,360	1,340	1,360	1,360	1,310	1,300	1,290	1,280	1,480	1,350	1,290	1,270
2	1,380	1,340	1,360	1,350	1,310	1,300	1,300	1,290	1,430	1,400	1,280	1,270
3	1,410	1,350	1,360	1,350	1,310	1,300	1,320	1,290	1,400	1,380	1,270	1,260
4	1,410	1,360	1,370	1,360	1,310	1,310	1,340	1,310	1,390	1,380	1,270	1,250
5	1,430	1,390	1,380	1,370	1,320	1,310	1,360	1,340	1,380	1,370	1,260	1,240
6	1,430	1,410	1,400	1,380	1,320	1,320	1,360	1,350	1,370	1,360	1,250	1,230
7	1,420	1,380	1,410	1,390	1,320	1,320	1,360	1,350	1,360	1,350	1,240	1,220
8	1,420	1,390	1,420	1,410	1,320	1,310	1,350	1,340	1,390	1,330	1,240	1,220
9	1,410	1,390	1,430	1,420	1,320	1,310	1,350	1,340	1,330	1,320	1,220	1,200
10	1,420	1,380	1,420	1,420	---	---	1,340	1,320	1,320	1,310	1,220	1,200
11	1,410	1,380	1,420	1,400	---	---	1,320	1,320	1,310	1,300	1,230	1,210
12	1,410	1,380	1,400	1,390	---	---	1,320	1,310	1,300	1,290	1,240	1,220
13	1,450	1,400	1,390	1,380	---	---	1,320	1,310	1,300	1,280	1,230	1,220
14	1,420	1,390	---	---	1,300	1,290	1,310	1,300	1,290	1,280	1,230	1,220
15	1,410	1,400	---	---	1,290	1,290	1,300	1,290	1,290	1,280	1,230	1,220
16	1,420	1,370	---	---	1,290	1,280	1,310	1,300	1,290	1,280	1,230	1,220
17	1,420	1,370	1,330	1,320	1,290	1,280	1,310	1,300	1,280	1,280	1,240	1,230
18	1,410	1,380	1,330	1,320	1,280	1,280	1,300	1,300	1,280	1,270	1,240	1,230
19	1,400	1,390	1,320	1,320	1,280	1,280	1,300	1,300	1,280	1,270	1,240	1,230
20	1,440	1,380	1,320	1,320	1,280	1,280	1,300	1,300	1,270	1,260	1,240	1,240
21	1,410	1,370	1,320	1,320	1,290	1,280	1,300	1,280	1,260	1,250	1,250	1,240
22	1,390	1,360	1,330	1,320	1,280	1,280	1,280	1,270	1,260	1,250	1,240	1,230
23	1,390	1,350	1,330	1,320	1,280	1,280	1,270	1,270	1,250	1,240	1,230	1,220
24	1,380	1,350	1,330	1,320	1,280	1,270	1,270	1,270	1,250	1,240	1,230	1,210
25	1,380	1,350	1,330	1,320	1,280	1,270	1,270	1,260	1,250	1,240	1,220	1,220
26	---	---	1,330	1,320	1,270	1,260	1,260	1,250	1,240	1,230	1,220	1,210
27	---	---	1,320	1,310	1,270	1,270	1,260	1,250	1,240	1,240	1,220	1,220
28	---	---	1,320	1,310	1,280	1,270	1,250	1,250	1,250	1,240	1,220	1,220
29	---	---	1,310	1,310	1,280	1,270	1,250	1,250	1,260	1,240	1,230	1,220
30	---	---	1,310	1,300	1,290	1,270	1,260	1,250	1,280	1,250	1,230	1,220
31	---	---	1,310	1,300	---	---	1,390	1,260	1,290	1,270	---	---
Month	---	---	---	---	---	---	1,390	1,250	1,480	1,230	1,290	1,200

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued



11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

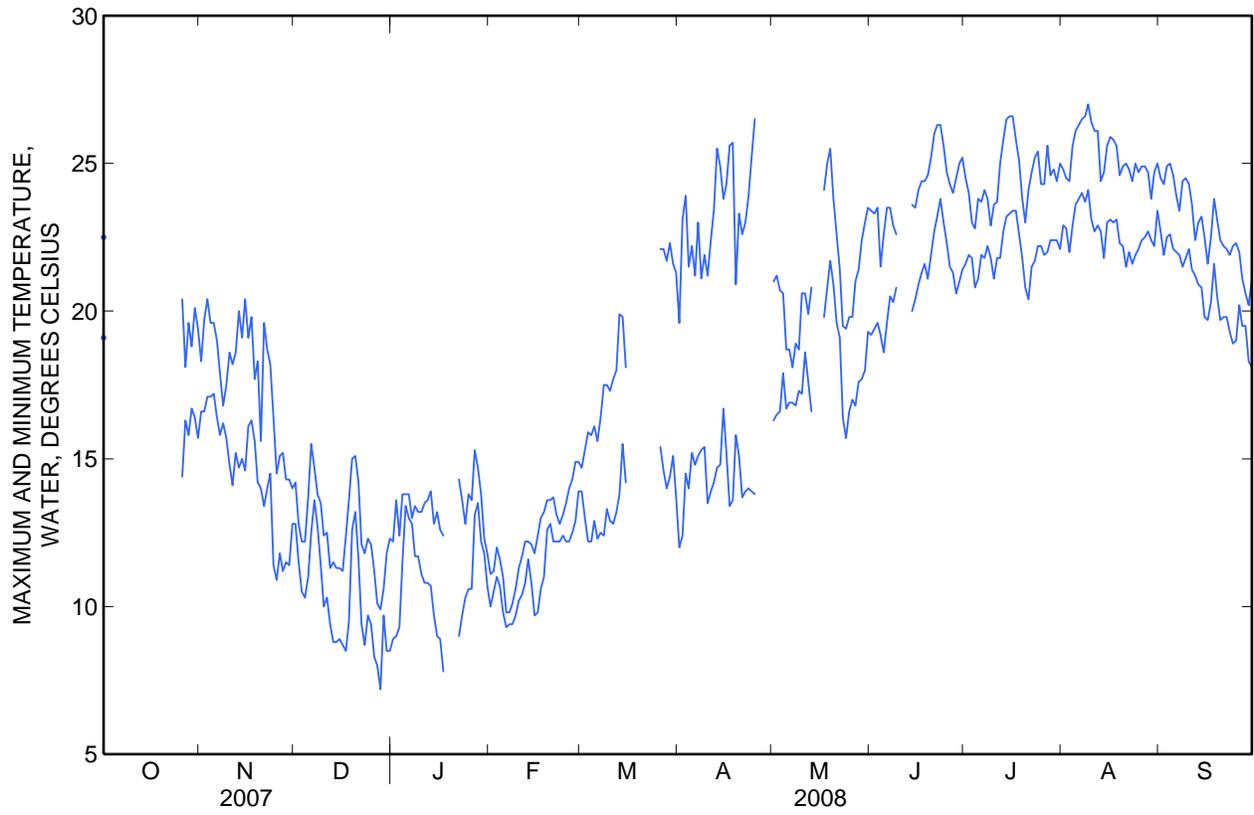
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	22.5	19.1	18.3	16.6	14.2	12.8	12.2	8.9	11.1	10.0	14.7	13.9
2	---	---	19.7	16.6	12.8	11.5	13.6	9.0	11.2	10.5	15.3	13.0
3	---	---	20.4	17.1	12.2	10.5	12.4	9.3	12.0	11.0	15.9	12.2
4	---	---	19.6	17.1	12.2	10.3	13.8	11.5	11.6	10.7	15.8	12.2
5	---	---	19.6	17.2	13.7	11.0	13.8	13.4	11.0	9.8	16.1	12.9
6	---	---	19.0	16.4	15.5	12.5	13.8	13.0	9.8	9.3	15.6	12.3
7	---	---	17.9	15.8	14.7	13.6	13.0	12.8	9.8	9.4	16.4	12.5
8	---	---	16.8	16.2	13.8	12.7	13.4	11.7	10.1	9.4	17.5	12.4
9	---	---	17.5	15.7	13.5	11.4	13.2	11.7	10.6	9.7	17.5	13.3
10	---	---	18.6	14.8	12.4	10.0	13.2	11.1	11.3	10.2	17.3	12.9
11	---	---	18.2	14.1	12.5	10.3	13.5	10.8	11.7	10.4	17.7	12.8
12	---	---	18.6	15.2	11.3	9.4	13.6	10.8	12.2	10.8	18.0	13.2
13	---	---	20.0	14.7	11.5	8.8	13.9	10.7	12.2	11.6	19.9	13.8
14	---	---	19.1	15.0	11.3	8.8	12.8	9.7	12.1	10.8	19.8	15.5
15	---	---	20.4	14.6	11.3	8.9	13.2	9.0	11.8	9.7	18.1	14.2
16	---	---	19.1	16.1	11.2	8.7	12.6	8.9	12.4	9.8	---	---
17	---	---	19.8	16.3	12.4	8.5	12.4	7.8	13.0	10.6	---	---
18	---	---	17.7	15.6	13.6	9.5	---	---	13.2	11.0	---	---
19	---	---	18.3	14.2	15.0	12.6	---	---	13.6	12.6	---	---
20	---	---	15.6	14.0	15.1	13.2	---	---	13.6	12.8	---	---
21	---	---	19.6	13.4	14.2	11.6	---	---	13.7	12.2	---	---
22	---	---	18.7	14.0	12.1	9.4	14.3	9.0	13.1	12.2	---	---
23	---	---	18.2	14.5	11.8	8.7	13.6	9.7	12.8	12.2	---	---
24	---	---	16.4	11.4	12.3	9.7	12.8	10.3	13.1	12.4	---	---
25	---	---	14.5	10.9	12.1	9.4	13.8	10.6	13.5	12.2	---	---
26	20.4	14.4	15.1	11.8	11.2	8.3	13.6	10.6	14.0	12.2	22.1	15.4
27	18.1	16.3	15.2	11.2	10.1	8.0	15.3	13.1	14.3	12.5	22.1	14.6
28	19.6	15.8	14.3	11.5	9.9	7.2	14.7	13.5	14.9	12.9	21.7	14.0
29	18.8	16.7	14.3	11.4	10.6	9.7	13.8	12.2	14.9	13.9	22.3	14.4
30	20.1	16.4	14.0	12.8	11.8	8.5	12.3	11.8	---	---	21.6	15.1
31	19.4	15.7	---	---	12.3	8.5	11.8	10.7	---	---	21.3	13.7
Month	---	---	20.4	10.9	15.5	7.2	---	---	14.9	9.3	---	---

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	19.6	12.0	21.0	16.3	23.4	19.2	24.5	21.6	24.8	22.9	24.5	22.7
2	23.1	12.4	21.2	16.5	23.3	19.4	24.0	21.9	24.5	22.8	24.3	21.9
3	23.9	14.5	20.7	16.6	23.5	19.6	23.0	21.8	24.4	22.0	24.9	22.5
4	21.5	14.0	20.6	17.9	21.5	19.2	22.8	20.8	25.6	22.9	25.0	22.6
5	22.2	15.2	18.7	16.7	22.6	18.6	23.8	21.1	26.1	23.6	24.6	22.1
6	21.2	14.8	18.7	16.9	23.5	19.6	23.7	21.9	26.3	23.8	23.9	22.0
7	23.0	15.1	18.1	16.9	23.5	20.5	24.1	21.8	26.5	24.0	23.4	21.9
8	21.1	15.3	18.9	16.8	22.9	20.3	23.8	22.2	26.6	23.7	24.4	21.5
9	21.9	15.4	18.7	17.3	22.6	20.8	22.9	21.8	27.0	24.1	24.5	21.8
10	21.2	13.5	20.6	17.2	---	---	23.6	21.1	26.4	23.1	24.3	22.1
11	22.4	13.9	20.6	18.6	---	---	23.7	21.8	26.1	22.7	23.6	21.4
12	23.4	14.2	19.9	17.6	---	---	25.0	21.8	26.1	22.9	22.4	21.2
13	25.5	14.7	20.8	16.6	---	---	25.8	22.7	24.4	22.7	23.0	20.9
14	24.9	14.8	---	---	23.6	20.0	26.5	23.2	24.7	21.8	23.2	20.8
15	23.8	16.7	---	---	23.5	20.4	26.6	23.3	25.6	23.0	22.5	19.8
16	24.3	15.2	---	---	24.1	20.9	26.6	23.4	25.9	23.1	21.6	19.7
17	25.6	13.4	24.1	19.8	24.4	21.3	25.8	23.4	25.8	23.0	22.5	20.3
18	25.7	13.6	25.0	20.8	24.4	21.6	25.1	22.6	25.6	23.1	23.8	21.6
19	20.9	15.8	25.5	21.7	24.6	21.1	23.8	21.8	24.6	22.3	23.1	20.5
20	23.3	15.1	23.8	20.9	25.2	21.9	23.0	20.8	24.9	22.2	22.4	19.7
21	22.6	13.7	22.6	19.6	26.0	22.7	24.1	20.4	25.0	21.5	22.2	19.8
22	23.0	13.9	21.4	19.1	26.3	23.2	24.7	21.5	24.8	22.0	22.1	19.8
23	23.9	14.0	19.5	16.4	26.3	23.8	25.2	21.7	24.4	21.6	21.9	19.3
24	25.2	13.9	19.4	15.7	25.6	23.0	25.4	22.2	25.0	21.9	22.2	18.9
25	26.5	13.8	19.8	16.6	24.7	22.3	24.3	22.2	24.7	22.1	22.3	19.0
26	---	---	19.8	17.0	24.3	21.5	24.3	21.9	24.9	22.4	22.0	20.2
27	---	---	21.0	16.8	24.0	21.3	25.6	22.0	24.9	22.5	21.1	19.5
28	---	---	21.4	17.6	24.5	20.6	24.6	22.4	24.7	22.7	20.6	19.5
29	---	---	22.4	17.7	25.0	21.0	24.8	22.4	23.8	22.4	20.2	18.3
30	---	---	23.0	18.0	25.2	21.4	24.4	22.4	24.7	22.2	21.1	18.1
31	---	---	23.5	19.3	---	---	25.0	22.1	25.0	23.4	---	---
Month	---	---	---	---	---	---	26.6	20.4	27.0	21.5	25.0	18.1

11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued



11046252 San Onofre Creek Lagoon at Mouth, near San Clemente, CA—Continued

PROFILE DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Time	DepthTo bottom at sample loca- tion, feet (81903)	Dist- ance, obs pnt to samplg locatn, feet (50417)	Sam- pling depth, feet (00003)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, deg C (00010)
Mar										
25...	1200	1.20	.00	.40	765	9.8	104	7.9	1,300	18.4
25...	1203	1.00	6.00	.50	765	9.9	105	7.9	1,300	18.4
25...	1205	1.20	10.0	.40	765	9.9	105	7.9	1,300	18.4
25...	1206	1.40	10.0	.70	765	9.6	102	7.8	1,300	18.5
25...	1207	1.10	10.0	.50	765	9.7	104	7.9	1,300	18.5
25...	1209	1.20	.00	.40	765	9.7	104	7.9	1,300	18.6
Jul										
30...	1702	2.50	.00	.50	761	8.9	107	7.2	1,450	24.5
30...	1707	2.50	10.0	1.00	761	8.8	106	7.4	1,500	24.5
30...	1708	2.50	10.0	2.00	760	9.1	110	7.3	1,500	24.5
30...	1710	2.50	10.0	1.00	761	9.1	110	7.2	1,450	24.5
30...	1711	2.50	10.0	2.00	761	9.1	110	7.1	1,450	24.4
30...	1712	2.50	10.0	1.00	761	9.0	109	7.1	1,450	24.5
30...	1713	2.50	10.0	2.00	761	9.0	109	7.1	1,450	24.5
30...	1714	2.50	10.0	1.00	761	9.0	108	7.0	1,450	24.3
30...	1715	2.50	10.0	2.00	761	9.0	108	7.1	1,450	24.3