Water-Data Report 2008

11176900 Arroyo de La Laguna at Verona, CA

Alameda Creek Basin

LOCATION.--Lat 37°37′36″, long 121°52′55″ referenced to North American Datum of 1927, Alameda County, CA, Hydrologic Unit 18050004, in Valle de San Jose Grant, on left bank at Verona Bridge, 0.9 mi downstream from Castlewood Drive bridge, and 2.5 mi southwest of Pleasanton.

DRAINAGE AREA.--403 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1912 to September 1930, October 1969 to September 1983, October 1987 to September 2003 (published as "near Pleasanton", station 11177000), October 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 280 ft above NGVD of 1929 from topographic map. January 1912 to September 1917, at site 2.2 mi upstream at different datum. October 1917 to September 1930, at site 1.6 mi downstream at different datum. October 1969 to September 2003, at site 0.8 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow partly regulated by Del Valle Reservoir 14 mi upstream, beginning in September 1968, capacity, 77,100 acre-ft. Water imported from Sacramento-San Joaquin Delta (see REMARKS for station 11176500). See schematic diagram of Alameda Creek Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft^3/s, Jan. 5, 1982, gage height, 22.61 ft, at site and datum then in use; no flow at times.

11176900 Arroyo de La Laguna at Verona, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14	14	13	16	280	33	18	16	13	14	14	10
2	15	13	13	e17	163	31	20	17	12	14	14	10
3	14	13	13	e80	812	30	20	18	12	12	14	9.8
4	14	12	34	2,510	239	32	20	18	13	12	13	9.9
5	14	12	23	1,350	99	32	20	18	13	12	14	9.5
6	14	12	60	503	62	30	19	18	16	12	14	9.3
7	15	13	428	121	49	27	19	17	15	12	15	9.3
8	15	14	48	90	454	27	19	17	13	12	15	9.4
9	14	14	24	61	345	26	19	16	13	11	14	9.4
10	210	34	20	48	290	25	19	16	14	11	12	10
11	33	275	22	41	285	24	19	16	13	10	11	10
12	286	35	19	36	121	24	21	16	12	10	12	9.9
13	132	22	15	29	54	27	18	16	12	12	11	9.9
14	32	19	14	28	42	32	18	14	11	12	10	10
15	23	17	14	31	36	40	18	14	12	12	11	10
16	21	16	13	29	35	28	17	14	12	12	10	11
17	43	16	41	28	30	22	17	14	12	12	9.9	11
18	19	15	273	26	29	24	19	13	12	12	10	11
19	16	14	76	25	76	21	19	13	11	12	10	11
20	22	18	207	22	264	20	19	14	11	12	11	12
21	15	17	43	58	91	19	19	14	10	11	11	12
22	13	14	24	361	107	19	19	14	10	12	11	12
23	13	13	20	224	137	19	21	14	10	12	10	11
24	13	13	19	80	530	19	20	16	11	11	9.9	11
25	13	13	17	327	226	19	20	18	11	11	10	11
26	12	13	16	362	93	18	21	17	12	10	11	11
27	12	14	15	502	60	18	21	17	14	10	12	10
28	12	13	25	422	48	19	17	16	15	11	12	9.9
29	13	13	37	180	39	21	17	14	14	12	11	10
30	14	13	23	111	---	19	18	14	13	15	11	10
31	13	---	17	224	---	18	---	14	---	14	11	---
Total	1,109	734	1,626	7,942	5,096	763	571	483	372	367	364.8	310.3
Mean	35.8	24.5	52.5	256	176	24.6	19.0	15.6	12.4	11.8	11.8	10.3
Max	286	275	428	2,510	812	40	21	18	16	15	15	12
Min	12	12	13	16	29	18	17	13	10	10	9.9	9.3
Ac-ft	2,200	1,460	3,230	15,750	10,110	1,510	1,130	958	738	728	724	615

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1930, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.43	1.96	15.9	174	234	59.5	18.5	8.67	3.52	2.06	1.36	1.19
Max	9.90	13.4	105	1,349	728	207	59.8	74.0	13.9	13.1	8.76	6.98
(WY)	(1917)	(1927)	(1914)	(1914)	(1915)	(1919)	(1926)	(1915)	(1916)	(1916)	(1916)	(1916)
Min	.000	.000	.000	.000	.84	.53	.000	.000	.000	.000	.000	.000
(WY)	(1914)	(1914)	(1919)	(1925)	(1924)	(1924)	(1929)	(1924)	(1918)	(1913)	(1913)	(1913)

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SUMMARY STATISTICS

	Water Years 1912 - 1930	
Annual mean	42.5	
Highest annual mean	180	1914
Lowest annual mean	.69	1913
Highest daily mean	9,810	Jan 25, 1914
Lowest daily mean	.00	Jun 30, 1913
Annual seven-day minimum	.00	Jun 30, 1913
Annual runoff (ac-ft)	30,800	
10 percent exceeds	33	
50 percent exceeds	.90	
90 percent exceeds	.00	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	22.4	37.4	75.9	182	244	173	74.1	28.1	19.5	18.5	17.3	16.3
Max	72.3	92.3	330	991	2,138	1,510	517	116	59.9	40.6	43.5	41.1
(WY)	(2005)	(1983)	(2003)	(1997)	(1998)	(1983)	(1982)	(1983)	(1998)	(1975)	(1981)	(1981)
Min	3.34	2.59	6.46	6.07	12.7	9.39	6.49	4.05	2.88	1.80	2.31	2.28
(WY)	(1991)	(1993)	(1990)	(1991)	(1977)	(1988)	(1990)	(1992)	(1991)	(1992)	(1991)	(1991)

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1970 - 2008	
Annual total	12,423		19,738.1			
Annual mean	34.0		53.9		74.9	
Highest annual mean					339	1983
Lowest annual mean					11.6	1977
Highest daily mean	765	Feb 26	2,510	Jan 4	5,560	Feb 3, 1998
Lowest daily mean	12	Sep 1	9.3	Sep 6	0.33	Jul 11, 1990
Annual seven-day minimum	13	Oct 22	9.5	Sep 3	1.1	Jul 6, 1992
Maximum peak flow			6,880	Jan 4	11,400	Jan 5, 1982
Maximum peak stage			14.43	Jan 4	22.61	Jan 5, 1982
Annual runoff (ac-ft)	24,640		39,150		54,240	
10 percent exceeds	40		92		107	
50 percent exceeds	18		16		20	
90 percent exceeds	14		11		6.1	

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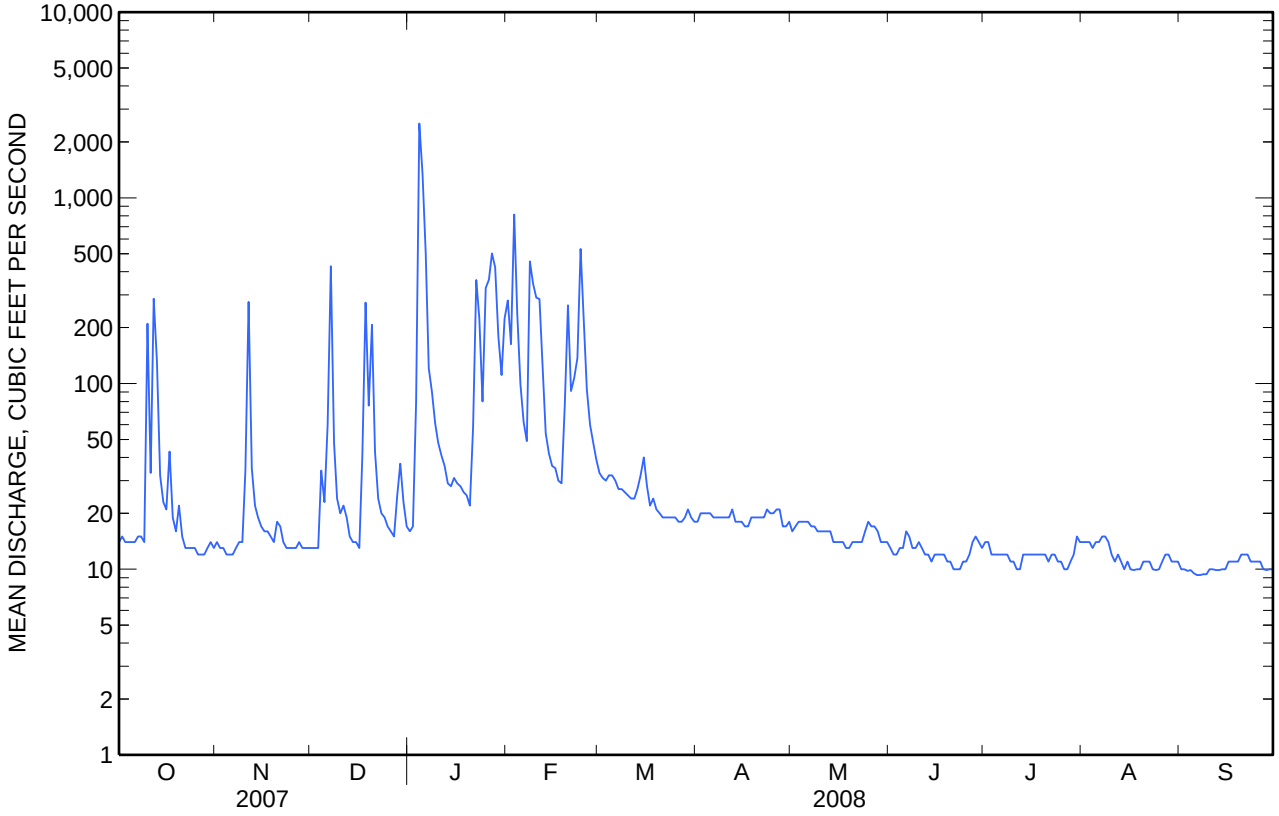

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-1963, 2004 to current year.
CHEMICAL ANALYSES: Water years 1960-1963.
SEDIMENT DATA: Water year 2007 to current year (storm season only).

PERIOD OF DAILY RECORD.--
pH: November 2003 to current year.
SPECIFIC CONDUCTANCE: November 2003 to current year.
WATER TEMPERATURE: October 1959 to June 1963, November 2003 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 2006 to April 2008 (storm season only).

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

REMARKS.--Interruptions in record are due to malfunction of recording and/or sensing equipment.
pH records are rated excellent except for Oct. 22-23, Nov. 7-21, Jan. 27-30, which are rated good; and Nov. 22-30, which are rated fair.
Specific conductance records are rated excellent except for Oct. 17-23, Jan. 4-14, Jan. 21-30, Mar. 15-20, Apr. 27 to May 6, July 4-7, which are rated good.
Water temperature records are rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--
pH: Maximum recorded, 8.7 standard units, Mar. 12-14, 2004; minimum recorded, 7.3 standard units, Jan. 4, 2004, Sept. 21, 2005.
SPECIFIC CONDUCTANCE: Maximum recorded, 1,660 microsiemens, Jan. 13, 2007; minimum recorded, 130 microsiemens, Dec. 29, 2003.
WATER TEMPERATURE: Maximum recorded, 32.8°C, July 23, 2006; minimum recorded, 2.8°C, Jan. 12, 13, 17, 1963, Jan. 15, 2007.
SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 1,510 mg/L, Jan. 4, 2008; minimum daily mean, 5 mg/L, Dec. 24, 25, 2007.
SEDIMENT LOAD (storm season only): Maximum daily, 18,700 tons, Jan. 4, 2008; minimum daily, 0.22 ton, Dec. 25, 2007.

EXTREMES FOR CURRENT YEAR.--
pH: Maximum recorded, 8.3 standard units, several days; minimum recorded, 7.4 standard units, Oct. 17-18.
SPECIFIC CONDUCTANCE: Maximum recorded, 1,570 microsiemens, Mar. 4; minimum recorded, 212 microsiemens, Dec. 20.
WATER TEMPERATURE: Maximum recorded, 30.2°C, July 9; minimum recorded, 5.8°C, Dec. 14-15.
SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 1,510 mg/L, Jan. 4; minimum daily mean, 5 mg/L, Dec. 24, 25.
SEDIMENT LOAD (storm season only): Maximum daily, 18,700 tons, Jan. 4; minimum daily, 0.22 ton, Dec. 25.

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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	8.2	8.0	8.0	7.7	8.3	8.0	8.0	7.9	7.8	7.6	8.1	8.1
2	8.2	8.0	8.0	7.6	8.3	8.0	8.0	---	7.8	7.6	8.2	8.1
3	8.2	8.0	8.0	7.6	8.3	8.0	---	---	7.8	7.6	8.2	8.1
4	8.2	8.0	7.9	7.5	8.1	7.8	---	---	7.9	7.8	8.2	8.0
5	8.2	8.0	8.0	7.5	7.8	7.7	7.8	7.7	7.9	7.8	8.2	8.0
6	8.2	8.0	8.0	7.6	7.9	7.7	7.9	7.8	7.9	7.9	8.2	8.0
7	8.3	8.0	8.0	7.6	7.7	7.6	7.9	7.9	8.0	7.9	8.1	8.0
8	8.3	8.0	8.0	7.6	7.7	7.6	8.0	7.9	8.0	7.7	8.1	8.0
9	8.2	8.0	8.0	7.7	7.8	7.7	7.9	7.9	7.9	7.8	8.1	8.0
10	8.2	7.6	8.0	7.7	7.8	7.8	7.9	7.9	7.9	7.8	8.1	8.0
11	7.7	7.6	7.8	7.6	8.0	7.8	7.9	7.9	7.9	7.8	8.1	7.9
12	7.7	7.5	7.7	7.5	8.0	7.9	8.0	7.9	8.0	7.8	8.2	7.9
13	7.6	7.5	7.8	7.7	8.0	7.9	8.0	7.9	8.0	7.9	8.1	7.8
14	7.7	7.5	7.9	7.8	8.0	7.9	8.0	8.0	8.0	7.8	8.2	7.8
15	7.7	7.7	7.9	7.8	8.0	7.9	8.1	8.0	7.9	7.8	8.2	7.8
16	7.8	7.7	8.0	7.8	8.0	8.0	8.1	8.1	7.9	7.8	7.9	7.8
17	7.8	7.4	8.1	7.9	8.0	7.8	8.1	8.1	7.9	7.8	7.9	7.8
18	7.5	7.4	8.1	7.9	7.8	7.6	8.1	8.1	8.0	7.8	8.0	7.8
19	7.6	7.5	8.2	7.9	7.7	7.6	8.2	8.1	8.1	7.8	8.0	7.8
20	7.7	7.6	8.1	7.8	7.8	7.5	8.1	8.1	7.8	7.5	7.9	7.8
21	7.7	7.5	8.0	7.7	7.8	7.6	8.2	8.1	7.9	7.6	8.0	7.8
22	7.6	7.5	8.1	7.7	7.8	7.7	8.2	7.9	7.9	7.8	8.0	7.9
23	7.8	7.6	8.1	7.8	7.9	7.8	7.9	7.8	7.9	7.8	8.0	7.9
24	7.9	7.5	8.2	7.7	7.9	7.9	7.9	7.8	7.9	7.8	8.0	7.9
25	7.9	7.6	8.2	7.8	8.0	7.9	7.9	7.7	8.1	7.9	8.0	7.9
26	8.0	7.6	8.2	7.8	8.0	7.9	7.9	7.7	8.1	8.0	8.1	7.9
27	8.0	7.6	8.2	7.8	8.0	8.0	7.8	7.6	8.1	8.0	8.1	8.0
28	8.1	7.7	8.3	7.9	8.1	8.0	7.7	7.6	8.1	8.0	8.2	8.0
29	8.1	7.7	8.2	7.9	8.0	7.8	7.7	7.6	8.1	8.1	8.1	8.0
30	8.2	7.8	8.2	7.8	7.9	7.8	7.7	7.6	---	---	8.2	8.1
31	8.1	7.7	---	---	7.9	7.8	7.8	7.5	---	---	8.2	8.0
Month	8.3	7.4	8.3	7.5	8.3	7.5	---	---	8.1	7.5	8.2	7.8

11176900 Arroyo de La Laguna at Verona, 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	8.1	8.0	8.1	7.7	8.1	7.8	8.1	7.8	8.1	7.9	8.1	7.8
2	8.2	8.0	8.0	7.7	8.1	7.8	8.1	7.8	8.1	7.8	8.2	7.8
3	8.2	8.1	8.1	7.8	8.1	7.8	8.1	7.8	8.1	7.9	8.2	7.9
4	8.2	8.1	8.1	7.8	8.1	7.8	8.1	7.8	8.2	7.8	8.2	7.9
5	8.2	8.1	8.1	7.8	8.1	7.8	8.1	7.8	8.1	7.9	8.2	7.9
6	8.2	8.1	8.1	7.8	8.1	7.8	8.1	7.7	8.2	7.9	8.2	7.9
7	8.2	8.0	8.0	7.7	8.2	7.8	8.0	7.7	8.1	7.9	8.2	7.9
8	8.2	8.1	8.1	7.8	8.1	7.8	8.1	7.8	8.1	7.8	8.1	7.9
9	8.2	8.1	8.1	7.8	8.2	7.8	8.1	7.8	8.0	7.7	8.2	7.9
10	8.2	8.0	8.0	7.8	8.2	7.9	8.1	7.8	8.0	7.8	8.2	7.9
11	8.1	7.9	8.0	7.8	8.3	7.9	8.1	7.8	8.0	7.8	8.2	7.9
12	8.1	7.9	8.0	7.8	8.3	7.9	8.1	7.8	8.1	7.7	8.2	7.9
13	8.1	7.9	8.0	7.8	8.3	7.9	8.1	7.8	8.1	7.8	8.2	7.9
14	8.1	7.9	8.0	7.7	8.3	7.9	8.1	7.8	8.1	7.8	8.2	7.9
15	8.1	7.9	8.0	7.7	8.3	7.9	8.1	7.8	8.1	7.8	8.2	7.9
16	8.1	7.8	8.0	7.7	8.3	7.8	8.1	7.8	8.1	7.8	8.2	7.9
17	8.0	7.8	8.0	7.7	8.2	7.8	8.1	7.9	8.1	7.8	8.2	7.9
18	8.0	7.8	8.0	7.7	8.2	7.8	8.1	7.9	8.1	7.9	8.2	7.9
19	8.1	7.8	8.0	7.8	8.2	7.8	8.1	7.8	8.1	7.9	8.2	7.9
20	8.1	7.9	8.0	7.8	8.2	7.8	8.1	7.8	8.1	7.9	8.2	7.9
21	8.1	7.9	8.1	7.8	8.2	7.8	8.1	7.8	8.1	7.9	8.2	7.9
22	8.1	7.9	8.1	7.8	8.2	7.8	8.2	7.9	8.1	7.9	8.2	7.9
23	8.1	7.9	8.0	7.8	8.1	7.8	8.2	7.8	8.0	7.9	8.3	7.9
24	8.1	7.9	8.0	7.8	8.2	7.8	8.1	7.8	8.1	7.9	8.3	8.1
25	8.1	7.8	7.9	7.8	8.2	7.9	8.1	7.8	8.1	7.9	8.3	8.0
26	8.1	7.8	7.9	7.7	8.2	7.9	8.1	7.8	8.1	7.9	8.3	8.0
27	8.0	7.7	7.8	7.7	8.2	7.9	8.1	7.8	8.1	7.9	8.2	8.0
28	8.0	7.7	7.8	7.7	8.2	7.9	8.2	7.8	8.1	7.8	8.2	8.0
29	8.0	7.7	7.8	7.7	8.2	7.9	8.3	8.0	8.1	7.8	8.3	8.0
30	8.0	7.7	8.1	7.6	8.2	7.8	8.2	8.0	8.1	7.8	8.3	8.1
31	---	---	8.1	7.8	---	---	8.2	8.0	8.1	7.8	---	---
Month	8.2	7.7	8.1	7.6	8.3	7.8	8.3	7.7	8.2	7.7	8.3	7.8

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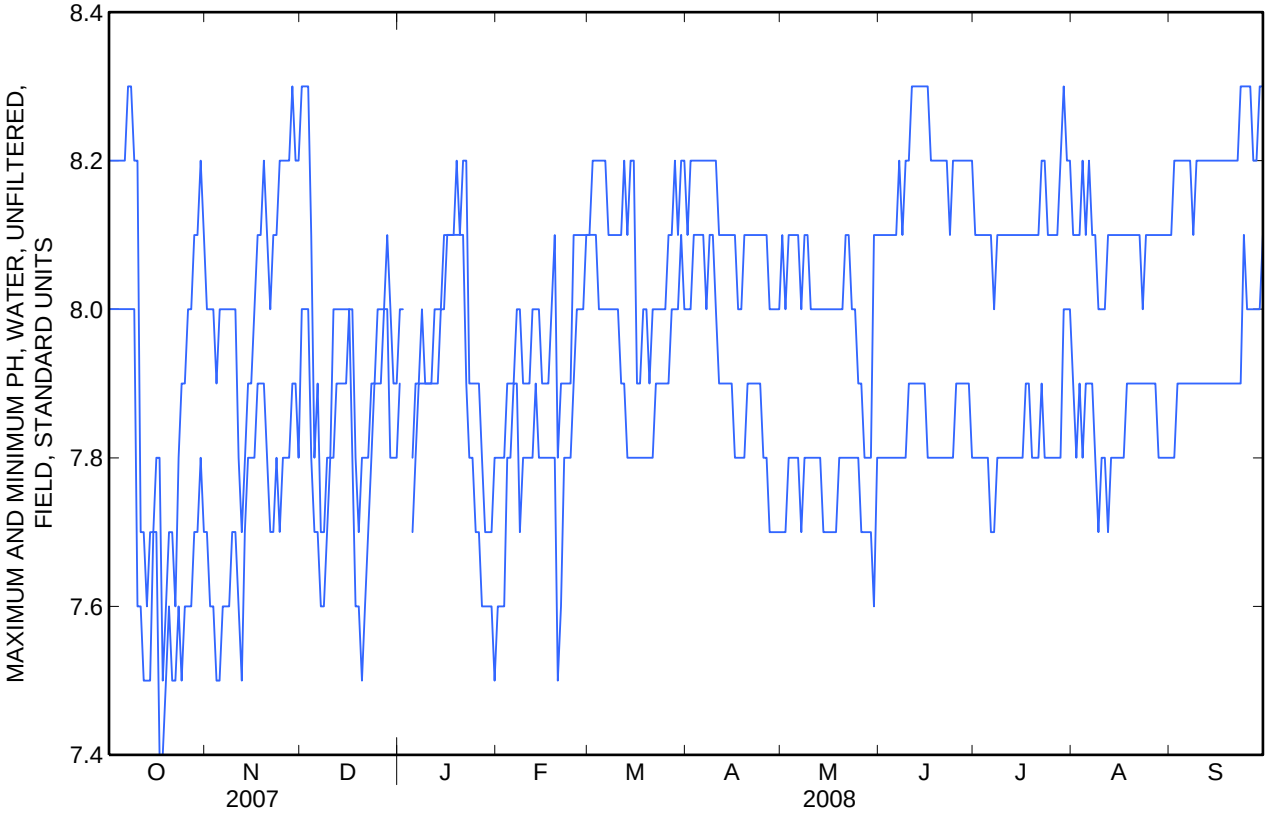


11176900 Arroyo de La Laguna at Verona, CA—Continued

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

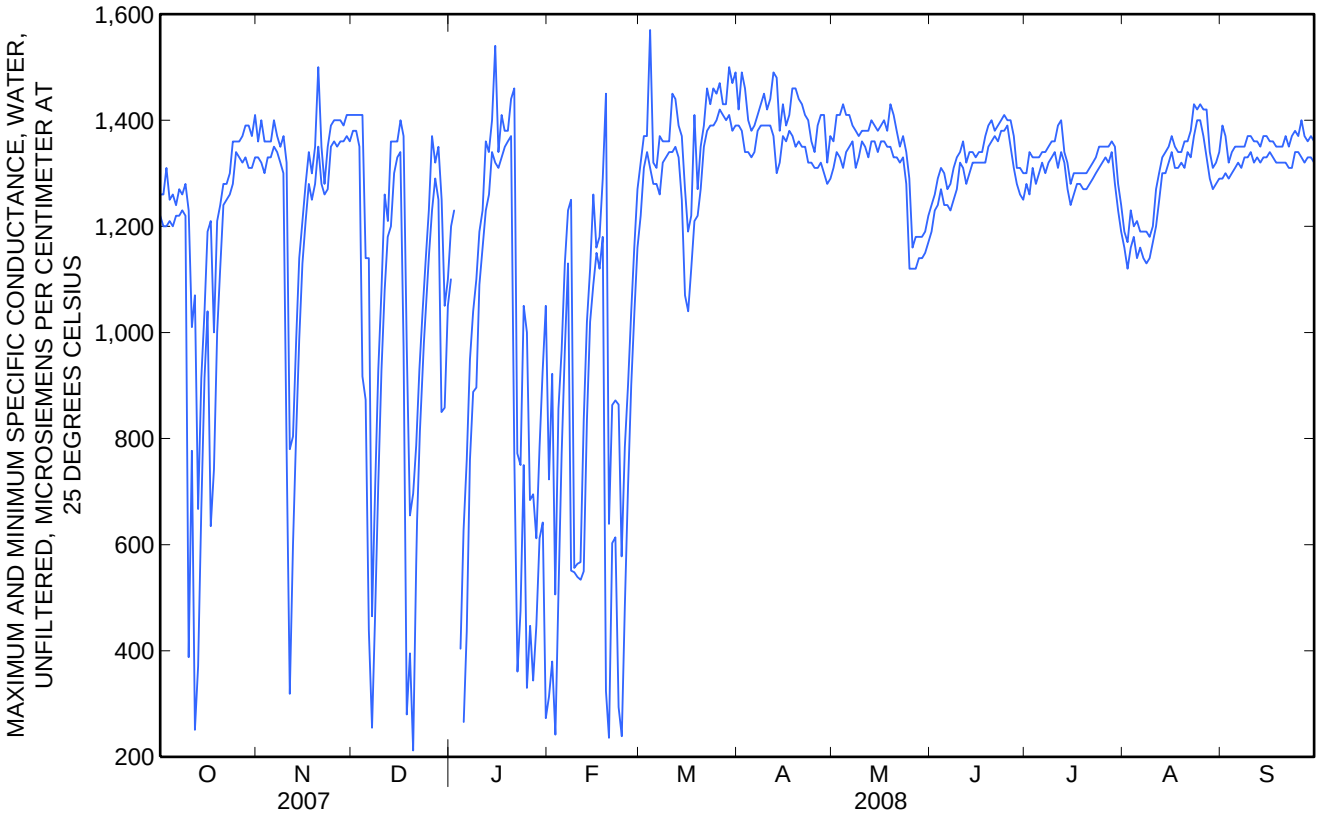
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	1,260	1,220	1,360	1,330	1,410	1,380	1,200	1,100	723	314	1,320	1,220
2	1,260	1,200	1,400	1,320	1,410	1,380	1,230	---	922	380	1,370	1,310
3	1,310	1,200	1,360	1,300	1,410	1,350	---	---	506	242	1,370	1,340
4	1,250	1,210	1,360	1,330	1,410	917	404	---	856	506	1,570	1,310
5	1,260	1,200	1,360	1,330	1,140	873	627	266	967	771	1,320	1,280
6	1,240	1,220	1,400	1,350	1,140	439	760	437	1,130	967	1,310	1,280
7	1,270	1,220	1,370	1,340	465	255	949	760	1,230	1,130	1,370	1,260
8	1,260	1,230	1,350	1,320	714	465	1,040	888	1,250	551	1,360	1,320
9	1,280	1,220	1,370	1,300	929	714	1,100	896	556	548	1,360	1,330
10	1,230	388	1,320	780	1,080	929	1,190	1,090	564	539	1,360	1,340
11	1,010	777	780	319	1,260	1,080	1,230	1,160	567	534	1,450	1,340
12	1,070	251	804	600	1,210	1,180	1,360	1,230	834	550	1,440	1,350
13	667	371	987	802	1,360	1,200	1,340	1,260	1,020	834	1,390	1,330
14	914	667	1,140	987	1,360	1,300	1,400	1,340	1,120	1,020	1,370	1,250
15	1,040	914	1,210	1,130	1,360	1,330	1,540	1,320	1,260	1,090	1,270	1,070
16	1,190	1,040	1,280	1,210	1,400	1,340	1,340	1,310	1,160	1,150	1,190	1,040
17	1,210	635	1,340	1,280	1,370	973	1,410	1,330	1,180	1,120	1,220	1,120
18	1,000	742	1,300	1,250	973	280	1,380	1,350	1,290	1,180	1,410	1,210
19	1,210	1,000	1,350	1,280	655	395	1,380	1,360	1,450	324	1,270	1,220
20	1,240	1,120	1,500	1,350	696	212	1,440	1,370	639	236	1,350	1,270
21	1,280	1,240	1,350	1,280	787	563	1,460	772	863	603	1,390	1,350
22	1,280	1,250	1,280	1,260	930	785	772	361	872	614	1,460	1,380
23	1,300	1,260	1,350	1,270	1,040	930	750	475	864	294	1,430	1,390
24	1,360	1,280	1,390	1,350	1,140	1,040	1,050	750	578	239	1,460	1,390
25	1,360	1,340	1,400	1,360	1,230	1,140	1,000	330	784	484	1,450	1,400
26	1,360	1,330	1,400	1,350	1,370	1,230	684	447	901	710	1,470	1,420
27	1,370	1,320	1,400	1,360	1,320	1,290	695	344	1,040	901	1,430	1,410
28	1,390	1,330	1,390	1,360	1,350	1,250	612	448	1,160	1,040	1,430	1,400
29	1,390	1,310	1,410	1,370	1,250	850	784	612	1,270	1,160	1,500	1,410
30	1,370	1,310	1,410	1,360	1,050	858	925	642	---	---	1,470	1,380
31	1,410	1,330	---	---	1,100	1,050	1,050	273	---	---	1,490	1,390
Month	1,410	251	1,500	319	1,410	212	---	---	1,450	236	1,570	1,040

11176900 Arroyo de La Laguna at Verona, 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	1,420	1,390	1,360	1,310	1,240	1,190	1,300	1,280	1,190	1,160	1,390	1,290
2	1,490	1,380	1,410	1,340	1,260	1,230	1,340	1,260	1,170	1,120	1,370	1,300
3	1,460	1,340	1,410	1,330	1,290	1,240	1,330	1,310	1,230	1,160	1,320	1,290
4	1,400	1,340	1,430	1,310	1,310	1,270	1,330	1,280	1,200	1,180	1,340	1,300
5	1,380	1,330	1,410	1,340	1,300	1,240	1,330	1,300	1,210	1,140	1,350	1,310
6	1,390	1,340	1,410	1,350	1,270	1,240	1,340	1,320	1,190	1,160	1,350	1,320
7	1,410	1,380	1,390	1,360	1,280	1,230	1,340	1,300	1,190	1,140	1,350	1,310
8	1,430	1,390	1,380	1,310	1,310	1,250	1,350	1,320	1,190	1,130	1,350	1,330
9	1,450	1,390	1,370	1,330	1,330	1,270	1,360	1,330	1,180	1,140	1,370	1,330
10	1,420	1,390	1,380	1,360	1,340	1,320	1,360	1,340	1,200	1,170	1,370	1,340
11	1,440	1,390	1,380	1,350	1,360	1,310	1,390	1,310	1,270	1,200	1,360	1,320
12	1,490	1,370	1,380	1,330	1,320	1,280	1,400	1,340	1,300	1,250	1,360	1,330
13	1,480	1,300	1,400	1,360	1,340	1,300	1,340	1,320	1,330	1,300	1,350	1,320
14	1,380	1,320	1,390	1,360	1,340	1,320	1,320	1,270	1,340	1,300	1,370	1,330
15	1,430	1,370	1,380	1,340	1,330	1,320	1,280	1,240	1,350	1,320	1,370	1,330
16	1,390	1,360	1,390	1,360	1,340	1,320	1,300	1,260	1,370	1,340	1,360	1,340
17	1,410	1,380	1,400	1,360	1,340	1,320	1,300	1,280	1,350	1,310	1,360	1,330
18	1,460	1,370	1,380	1,350	1,370	1,320	1,300	1,280	1,340	1,310	1,350	1,320
19	1,460	1,350	1,430	1,350	1,390	1,350	1,300	1,270	1,340	1,320	1,350	1,320
20	1,440	1,360	1,410	1,330	1,400	1,360	1,300	1,270	1,360	1,310	1,350	1,320
21	1,430	1,350	1,380	1,330	1,380	1,370	1,310	1,280	1,360	1,340	1,370	1,320
22	1,410	1,350	1,350	1,320	1,390	1,360	1,320	1,290	1,380	1,330	1,350	1,310
23	1,400	1,320	1,370	1,330	1,400	1,380	1,330	1,300	1,430	1,370	1,370	1,310
24	1,360	1,320	1,340	1,280	1,410	1,380	1,350	1,310	1,420	1,400	1,380	1,340
25	1,340	1,310	1,290	1,120	1,400	1,390	1,350	1,320	1,430	1,400	1,370	1,340
26	1,390	1,310	1,160	1,120	1,400	1,350	1,350	1,330	1,420	1,370	1,400	1,330
27	1,410	1,320	1,180	1,120	1,370	1,310	1,350	1,320	1,420	1,330	1,370	1,320
28	1,410	1,300	1,180	1,140	1,310	1,280	1,360	1,340	1,340	1,290	1,360	1,330
29	1,320	1,280	1,180	1,140	1,310	1,260	1,350	1,280	1,310	1,270	1,370	1,330
30	1,370	1,290	1,190	1,150	1,300	1,250	1,280	1,230	1,320	1,280	1,360	1,320
31	---	---	1,220	1,170	---	---	1,240	1,190	1,340	1,290	---	---
Month	1,490	1,280	1,430	1,120	1,410	1,190	1,400	1,190	1,430	1,120	1,400	1,290

11176900 Arroyo de La Laguna at Verona, CA—Continued



11176900 Arroyo de La Laguna at Verona, CA—Continued

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

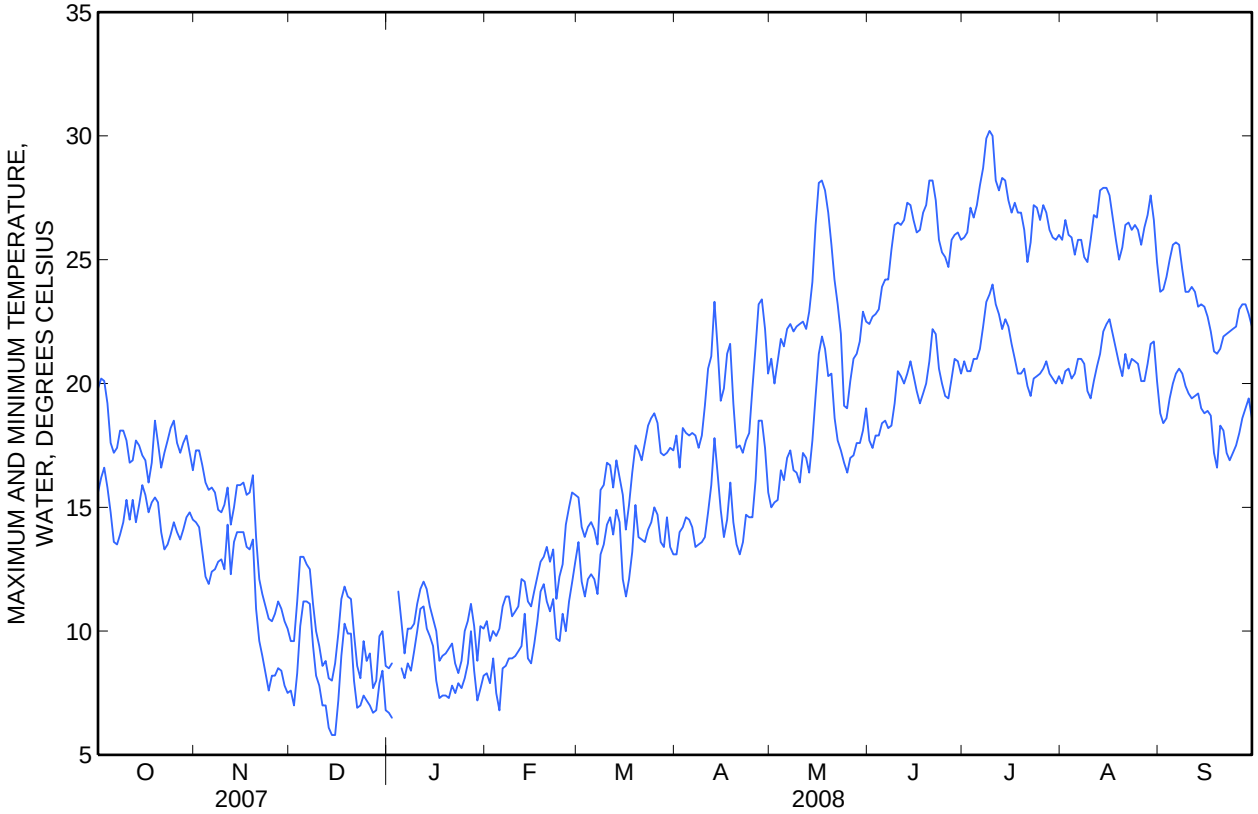
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	19.8	15.6	17.3	14.4	9.6	7.6	8.5	6.7	10.4	8.3	15.4	13.6
2	20.2	16.2	17.3	14.2	9.6	7.0	8.7	6.5	9.6	7.9	14.2	12.0
3	20.1	16.6	16.7	13.2	11.2	8.3	---	---	10.0	8.9	13.8	11.4
4	19.2	15.8	16.0	12.2	13.0	10.2	11.6	---	9.8	7.5	14.2	12.1
5	17.6	14.8	15.7	11.9	13.0	11.2	10.4	8.5	10.1	6.8	14.4	12.3
6	17.2	13.6	15.8	12.4	12.7	11.2	9.1	8.1	11.0	8.5	14.1	12.1
7	17.4	13.5	15.6	12.5	12.5	11.1	10.1	8.7	11.4	8.6	13.5	11.5
8	18.1	13.9	14.9	12.8	11.1	9.4	10.1	8.4	11.4	8.9	15.7	13.1
9	18.1	14.4	14.8	12.9	10.0	8.2	10.3	9.2	10.6	8.9	15.9	13.5
10	17.7	15.3	15.1	12.5	9.4	7.8	11.1	10.0	10.8	9.0	16.8	14.3
11	16.8	14.5	15.8	14.3	8.6	7.0	11.7	10.9	11.0	9.2	16.7	14.6
12	16.9	15.3	14.3	12.3	8.8	7.0	12.0	11.0	12.1	9.4	15.8	13.9
13	17.7	14.4	15.0	13.6	8.1	6.1	11.7	10.1	12.0	10.7	16.9	14.9
14	17.5	15.1	15.9	14.0	8.0	5.8	11.0	9.8	11.2	8.9	16.2	14.4
15	17.1	15.9	15.9	14.0	8.7	5.8	10.5	9.4	11.0	8.7	15.5	12.1
16	16.9	15.5	16.0	14.0	9.9	7.2	10.0	8.0	11.6	9.5	14.1	11.4
17	16.0	14.8	15.5	13.4	11.3	9.0	8.8	7.3	12.2	10.4	15.1	12.1
18	16.8	15.2	15.6	13.3	11.8	10.3	9.0	7.4	12.8	11.6	16.4	13.2
19	18.5	15.4	16.3	13.7	11.4	9.9	9.1	7.4	13.0	11.9	17.5	15.1
20	17.6	15.2	13.8	10.9	11.3	9.9	9.3	7.3	13.4	11.2	17.3	13.8
21	16.6	14.0	12.1	9.6	9.9	8.0	9.5	7.8	12.8	10.8	16.9	13.7
22	17.2	13.3	11.5	9.0	8.6	6.9	8.7	7.5	13.3	11.3	17.6	13.6
23	17.7	13.5	11.0	8.3	8.1	7.0	8.3	7.9	11.3	9.7	18.3	14.1
24	18.2	13.9	10.5	7.6	9.6	7.4	8.8	7.7	12.2	9.6	18.6	14.4
25	18.5	14.4	10.4	8.2	8.8	7.2	10.0	8.1	12.7	10.7	18.8	15.0
26	17.6	14.0	10.7	8.2	9.1	7.0	10.4	8.7	14.3	10.0	18.4	14.7
27	17.2	13.7	11.2	8.5	7.7	6.7	11.1	10.0	15.0	11.2	17.2	13.6
28	17.6	14.1	10.9	8.4	8.0	6.8	10.2	8.4	15.6	12.0	17.1	13.4
29	17.9	14.6	10.4	7.8	9.8	7.9	8.8	7.2	15.5	12.8	17.2	14.6
30	17.2	14.8	10.1	7.5	10.0	8.4	10.2	7.7	---	---	17.4	13.4
31	16.5	14.5	---	---	8.6	6.8	10.1	8.2	---	---	17.3	13.1
Month	20.2	13.3	17.3	7.5	13.0	5.8	---	---	15.6	6.8	18.8	11.4

11176900 Arroyo de La Laguna at Verona, 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	17.9	13.1	21.0	15.0	22.4	17.7	25.9	20.9	25.8	20.0	23.7	18.8
2	16.6	14.0	20.0	15.2	22.7	17.4	26.1	20.5	26.6	20.5	23.8	18.4
3	18.2	14.2	20.9	15.3	22.8	17.9	27.1	20.5	26.0	20.6	24.3	18.6
4	18.0	14.6	21.8	16.5	23.0	17.9	26.7	21.0	25.9	20.2	25.0	19.4
5	17.9	14.5	21.5	16.1	23.9	18.4	27.2	21.0	25.2	20.4	25.6	20.0
6	18.0	14.2	22.2	17.0	24.2	18.5	28.0	21.4	25.8	21.0	25.7	20.4
7	17.9	13.4	22.4	17.3	24.2	18.2	28.7	22.3	25.8	21.0	25.6	20.6
8	17.4	13.5	22.1	16.5	25.4	18.3	29.9	23.3	25.1	20.8	24.6	20.4
9	17.9	13.6	22.3	16.4	26.4	19.2	30.2	23.6	24.9	19.7	23.7	19.9
10	19.1	13.8	22.4	16.0	26.5	20.5	30.0	24.0	25.8	19.4	23.7	19.6
11	20.6	14.8	22.5	17.2	26.4	20.3	28.2	23.2	26.8	20.1	23.9	19.4
12	21.1	15.9	22.2	17.0	26.6	20.0	27.8	22.8	26.7	20.7	23.7	19.5
13	23.3	17.8	22.9	16.4	27.3	20.4	28.3	22.2	27.8	21.2	23.1	19.6
14	21.5	16.4	24.1	17.7	27.2	20.9	28.2	22.6	27.9	22.1	23.2	19.0
15	19.3	14.9	26.4	19.5	26.6	20.3	27.4	22.3	27.9	22.4	23.1	18.8
16	19.8	13.8	28.1	21.2	26.1	19.7	26.9	21.6	27.6	22.6	22.7	18.9
17	21.2	14.5	28.2	21.9	26.2	19.2	27.3	21.0	26.7	22.0	22.1	18.7
18	21.6	16.0	27.8	21.4	26.9	19.6	26.9	20.4	25.8	21.4	21.3	17.2
19	19.2	14.4	26.9	20.3	27.2	20.0	26.9	20.4	25.0	20.8	21.2	16.6
20	17.4	13.5	25.6	20.4	28.2	20.9	26.2	20.6	25.5	20.3	21.4	18.3
21	17.5	13.1	24.2	18.6	28.2	22.2	24.9	19.9	26.4	21.2	21.9	18.1
22	17.2	13.6	23.2	17.7	27.4	22.0	25.7	19.5	26.5	20.6	22.0	17.2
23	17.7	14.7	22.0	17.3	25.8	20.6	27.2	20.2	26.2	21.0	22.1	16.9
24	18.0	14.6	19.1	16.8	25.3	20.0	27.1	20.3	26.4	20.9	22.2	17.2
25	19.8	14.6	19.0	16.4	25.1	19.5	26.6	20.4	26.2	20.8	22.3	17.5
26	21.4	16.1	20.1	17.0	24.7	19.4	27.2	20.6	25.6	20.1	23.0	18.0
27	23.2	18.5	21.0	17.1	25.8	20.2	26.9	20.9	26.3	20.1	23.2	18.6
28	23.4	18.5	21.2	17.6	26.0	21.0	26.2	20.4	26.8	20.8	23.2	19.0
29	22.2	17.4	21.7	17.6	26.1	20.9	25.9	20.2	27.6	21.6	22.8	19.4
30	20.4	15.6	22.9	18.1	25.8	20.4	25.8	20.0	26.6	21.7	22.3	18.6
31	---	---	22.5	19.0	---	---	26.0	20.3	24.9	20.1	---	---
Month	23.4	13.1	28.2	15.0	28.2	17.4	30.2	19.5	27.9	19.4	25.7	16.6

11176900 Arroyo de La Laguna at Verona, CA—Continued



11176900 Arroyo de La Laguna at Verona, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 2

Date	Time	Instantaneous discharge, ft3/s (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspnd. sediment, sieve diametr percent <.125mm (70332)	Suspnd. sediment, sieve diametr percent <.25mm (70333)	Suspnd. sediment, sieve diametr percent <.5 mm (70334)	Suspnd. sediment, sieve diametr percent <1 mm (70335)
Oct										
03...	1130	14	18.5	30	1.1	92	--	--	--	--
10...	1230	146	16.5	133	52	87	94	100	--	--
22...	1155	13	15.5	14	.49	85	--	--	--	--
30...	1145	16	16.5	45	1.9	62	--	--	--	--
Nov										
02...	1100	13	15.5	36	1.3	67	--	--	--	--
13...	1230	22	15.0	18	1.1	98	--	--	--	--
30...	1545	14	10.0	10	.38	74	--	--	--	--
Dec										
04...	1235	87	12.0	79	19	87	95	100	--	--
07...	1555	247	12.1	250	167	93	98	100	--	--
14...	1345	14	8.0	14	.53	87	--	--	--	--
17...	1415	64	10.5	106	18	96	--	--	--	--
19...	1015	65	10.1	54	9.5	95	--	--	--	--
20...	1415	196	11.2	74	39	93	98	100	--	--
27...	1230	15	7.6	8	.32	90	--	--	--	--
28...	1130	30	7.5	18	1.5	92	--	--	--	--
Jan										
02...	1230	15	8.4	8	.32	93	--	--	--	--
05...	1730	2,410	8.6	1,130	7,350	60	73	87	98	100
07...	1235	113	9.2	90	27	90	95	100	--	--
11...	1515	40	11.5	22	2.4	96	--	--	--	--
15...	1115	30	10.0	14	1.1	97	--	--	--	--
17...	1115	29	8.2	12	.94	99	--	--	--	--
23...	1420	177	8.0	84	40	95	99	100	--	--
28...	1150	477	8.6	370	477	79	85	94	99	100
30...	1340	93	8.5	66	17	93	--	--	--	--
Feb										
05...	1120	98	7.5	64	17	92	100	--	--	--
14...	1000	41	9.2	14	1.5	94	--	--	--	--
21...	0930	49	10.9	45	6.0	89	--	--	--	--
27...	1355	60	12.9	28	4.5	97	--	--	--	--
Mar										
12...	1345	24	15.7	34	2.2	34	--	--	--	--
21...	1345	19	16.6	27	1.4	55	--	--	--	--
28...	1300	19	16.6	31	1.6	53	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 2

Date	Time	Instantaneous discharge, ft3/s (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
Apr						
03...	1215	20	16.7	54	2.9	59
10...	1345	19	18.6	44	2.3	43
17...	1450	19	21.1	26	1.3	56
23...	1500	24	17.7	40	2.6	53
30...	1515	19	20.5	20	1.0	82

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 2

[Remark codes: <, less than.]

Date	Time	Number of sampling points, count (00063)	Instantaneous discharge, ft3/s (00061)	Temperature, water, deg C (00010)	Bed sediment, dry svd sve dia percent <.063mm (80164)	Bed sediment, dry svd sve dia percent <.125mm (80165)	Bed sediment, dry svd sve dia percent <.25mm (80166)	Bed sediment, dry svd sve dia percent <.5 mm (80167)	Bed sediment, dry svd sve dia percent <1 mm (80168)	Bed sediment, dry svd sve dia percent <2 mm (80169)	Bed sediment, dry svd sve dia percent <4 mm (80170)	Bed sediment, dry svd sve dia percent <8 mm (80171)	Bed sediment, dry svd sve dia percent <16 mm (80172)
Oct													
03...	1155	1	14	18.5	15	34	61	73	79	84	89	93	98
03...	1200	1	14	18.5	<1	1	3	6	9	18	41	71	92
03...	1205	1	14	18.5	<1	1	3	8	22	38	52	71	92
03...	1210	1	14	18.5	8	25	67	94	98	99	100	--	--
03...	1215	1	14	18.5	21	48	82	97	100	--	--	--	--
Apr													
30...	1530	1	19	20.5	--	--	--	--	--	--	--	<1	1
30...	1535	1	19	20.5	1	2	7	23	31	36	39	43	49
30...	1540	1	20	20.5	--	--	<1	1	2	2	4	6	8
30...	1545	1	20	20.5	2	7	20	29	34	39	45	53	68
30...	1550	1	20	20.5	<1	1	5	9	12	20	31	44	61
30...	1555	1	19	20.5	4	14	45	78	89	93	96	99	99
30...	1600	1	19	20.5	14	45	93	100	--	--	--	--	--

11176900 Arroyo de La Laguna at Verona, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 2

[Remark codes: <, less than.]

Date	Bed sediment, dry svd sve dia percent <32 mm (80173)	Bed sediment, dry svd sve dia percent <64 mm (80174)	Bed sediment, dry svd sve dia percent <128 mm (80175)	Bed sediment, dry svd sve dia percent <256mm (69038)
Oct				
03...	100	--	--	--
03...	100	--	--	--
03...	100	--	--	--
03...	--	--	--	--
03...	--	--	--	--
Apr				
30...	4	33	33	100
30...	81	100	--	--
30...	10	27	100	--
30...	86	100	--	--
30...	84	100	--	--
30...	100	--	--	--
30...	--	--	--	--

11176900 Arroyo de La Laguna at Verona, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
[e, estimated]

Day	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)
		October			November			December	
1	14	29	1.0	14	41	1.5	13	10	0.36
2	15	30	1.3	13	38	1.4	13	10	0.35
3	14	30	1.2	13	35	1.2	13	10	0.36
4	14	26	1.0	12	34	1.1	34	31	4.3
5	14	27	1.0	12	34	1.1	23	20	1.3
6	14	26	0.99	12	34	1.1	60	60	31
7	15	27	1.1	13	35	1.2	428	501	789
8	15	29	1.2	14	37	1.4	48	41	5.9
9	14	28	1.1	14	37	1.4	24	19	1.3
10	210	223	269	34	81	27	20	15	0.82
11	33	33	3.2	275	535	613	22	20	1.2
12	286	268	521	35	27	2.7	19	15	0.78
13	132	144	78	22	18	1.1	15	12	0.48
14	32	32	2.9	19	16	0.79	14	14	0.52
15	23	25	1.5	17	15	0.67	14	14	0.51
16	21	23	1.3	16	15	0.66	13	14	0.51
17	43	46	8.6	16	14	0.62	41	59	7.8
18	19	22	1.1	15	13	0.51	273	572	611
19	16	18	0.80	14	13	0.50	76	87	28
20	22	24	1.5	18	14	0.68	207	139	141
21	15	17	0.71	17	14	0.65	43	13	1.6
22	13	14	0.51	14	12	0.46	24	7	0.47
23	13	14	0.49	13	11	0.40	20	6	0.34
24	13	14	0.49	13	11	0.39	19	5	0.25
25	13	14	0.48	13	11	0.41	17	5	0.22
26	12	14	0.48	13	11	0.41	16	7	0.31
27	12	14	0.48	14	11	0.40	15	8	0.32
28	12	15	0.49	13	11	0.39	25	15	1.1
29	13	15	0.51	13	11	0.39	37	23	2.5
30	14	29	1.1	13	10	0.37	23	13	0.81
31	13	35	1.2	---	---	---	17	9	0.40
Total	1,109	---	905.73	734	---	663.90	1,626	---	1,634.81

11176900 Arroyo de La Laguna at Verona, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
[e, estimated]

Day	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)
		January			February			March	
1	16	8	0.35	280	236	224	33	17	1.5
2	e17	8	0.35	163	115	109	31	16	1.3
3	e80	52	37	812	701	1,690	30	15	1.2
4	2,510	1,510	18,700	239	190	135	32	14	1.2
5	1,350	653	2,920	99	67	19	32	13	1.2
6	503	274	454	62	40	6.7	30	12	1.0
7	121	107	37	49	32	4.2	27	10	0.73
8	90	81	21	454	237	343	27	9	0.67
9	61	48	8.3	345	182	173	26	9	0.62
10	48	31	4.0	290	145	113	25	9	0.61
11	41	25	2.8	285	133	103	24	10	0.66
12	36	19	1.9	121	54	21	24	27	1.8
13	29	15	1.2	54	20	3.0	27	36	2.7
14	28	15	1.2	42	15	1.7	32	41	4.0
15	31	14	1.2	36	13	1.2	40	54	5.9
16	29	14	1.1	35	12	1.1	28	38	3.0
17	28	12	0.89	30	11	0.93	22	31	1.8
18	26	11	0.78	29	11	0.85	24	34	2.3
19	25	11	0.76	76	32	50	21	29	1.6
20	22	10	0.60	264	244	265	20	26	1.4
21	58	29	13	91	88	28	19	26	1.4
22	361	227	354	107	104	34	19	26	1.3
23	224	116	88	137	149	141	19	24	1.3
24	80	40	8.6	530	630	1,150	19	24	1.2
25	327	205	426	226	258	180	19	24	1.2
26	362	263	305	93	69	19	18	24	1.2
27	502	389	616	60	29	4.7	18	24	1.2
28	422	315	384	48	22	2.9	19	28	1.4
29	180	138	75	39	19	2.0	21	32	1.8
30	111	81	26	---	---	---	19	30	1.6
31	224	172	279	---	---	---	18	28	1.4
Total	7,942	---	24,769.03	5,096	---	4,826.28	763	---	50.19

11176900 Arroyo de La Laguna at Verona, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
[e, estimated]

Day	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean discharge (ft^3/s)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)
		April							
1	18	30	1.5						
2	20	31	1.7						
3	20	43	2.4						
4	20	52	2.9						
5	20	51	2.8						
6	19	49	2.5						
7	19	49	2.5						
8	19	49	2.5						
9	19	48	2.5						
10	19	46	2.3						
11	19	45	2.3						
12	21	48	2.7						
13	18	46	2.3						
14	18	43	2.1						
15	18	44	2.2						
16	17	44	2.0						
17	17	34	1.6						
18	19	26	1.3						
19	19	29	1.5						
20	19	28	1.4						
21	19	30	1.5						
22	19	30	1.6						
23	21	35	2.0						
24	20	31	1.7						
25	20	32	1.7						
26	21	32	1.9						
27	21	33	1.9						
28	17	29	1.3						
29	17	27	1.2						
30	18	19	0.92						
31	---	---	---						
Total	571	---	58.72						

	Total discharge (ft^3/s)	Total suspended sediment discharge (tons)
Period	17,841	32,908.66

11176900 Arroyo de La Laguna at Verona, CA—Continued

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 2

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Stream width, feet (00004)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Location in X-sect. looking dwnstrm ft from l bank (00009)
Mar								
28...	1328	.25	.15	31.8	8.1	1,420	16.7	1.20
28...	1330	.30	.18	31.8	8.1	1,420	16.7	3.60
28...	1333	.37	.22	31.8	8.1	1,420	16.6	6.00
28...	1336	.49	.10	31.8	8.1	1,420	16.6	8.40
28...	1337	.49	.39	31.8	8.0	1,420	16.6	8.40
28...	1339	.61	.12	31.8	8.0	1,420	16.5	10.8
28...	1340	.61	.49	31.8	8.1	1,420	16.5	10.8
28...	1342	.68	.14	31.8	8.1	1,420	16.5	13.2
28...	1344	.68	.54	31.8	8.0	1,420	16.5	13.2
28...	1346	.66	.13	31.8	8.0	1,420	16.5	15.6
28...	1347	.66	.53	31.8	8.0	1,420	16.5	15.6
28...	1349	.67	.13	31.8	8.0	1,420	16.5	18.0
28...	1350	.67	.54	31.8	8.0	1,420	16.5	18.0
28...	1352	.80	.16	31.8	8.0	1,420	16.5	20.4
28...	1353	.80	.64	31.8	8.0	1,420	16.5	20.4
28...	1355	.83	.17	31.8	8.1	1,420	16.5	22.8
28...	1357	.83	.66	31.8	8.1	1,420	16.5	22.8
28...	1359	.84	.17	31.8	8.1	1,420	16.5	25.2
28...	1400	.84	.67	31.8	8.1	1,420	16.5	25.2
28...	1402	.86	.17	31.8	8.1	1,420	16.5	27.6
28...	1403	.86	.69	31.8	8.0	1,420	16.5	27.6
28...	1405	.81	.16	31.8	8.1	1,420	16.5	30.0
28...	1407	.81	.65	31.8	8.1	1,420	16.5	30.0
28...	1409	.60	.12	31.8	8.0	1,420	16.5	30.8
28...	1410	.60	.48	31.8	8.1	1,420	16.5	30.8

Note: Instantaneous discharge at mean time of cross-sectional measurements: Mar. 28, 19 ft^3/s.

11176900 Arroyo de La Laguna at Verona, CA—Continued

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 2

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Stream width, feet (00004)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Location in X-sect. looking dwnstrm ft from l bank (00009)
Jul								
28...	1302	1.60	.80	24.0	8.1	1,350	24.4	.75
28...	1304	1.60	.80	24.0	8.1	1,350	24.4	2.25
28...	1306	1.30	.65	24.0	8.1	1,350	24.4	3.75
28...	1308	1.20	.60	24.0	8.1	1,350	24.1	5.25
28...	1310	1.20	.60	24.0	8.1	1,350	24.1	6.75
28...	1312	1.20	.60	24.0	8.1	1,350	24.1	8.25
28...	1314	1.20	.60	24.0	8.1	1,350	24.1	9.75
28...	1316	1.30	.65	24.0	8.1	1,350	24.1	11.2
28...	1318	1.20	.60	24.0	8.1	1,350	24.1	12.8
28...	1320	1.20	.60	24.0	8.1	1,350	24.1	14.2
28...	1322	1.10	.55	24.0	8.1	1,350	24.2	15.8
28...	1324	1.10	.55	24.0	8.1	1,340	24.3	17.2
28...	1326	.90	.45	24.0	8.1	1,350	24.4	18.8
28...	1328	.70	.35	24.0	8.1	1,340	24.5	20.2
28...	1330	.50	.25	24.0	8.1	1,340	24.6	21.8
28...	1332	.40	.20	24.0	8.1	1,340	24.6	22.2

Note: Instantaneous discharge at mean time of cross-sectional measurements: July 28, 11 ft^3/s.