

380109122250401 San Pablo Bay at Hamilton Disposal, near San Rafael, CA

San Francisco Bay

LOCATION.--Lat 38°01'09", long 122°25'04" referenced to North American Datum of 1983, Marin County, CA, Hydrologic Unit 18050002, unsurveyed, instrument package deployed near the Hamilton Disposal site in San Pablo Bay.

DRAINAGE AREA.--Indeterminate.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--November 2005 to September 2006.

SPECIFIC CONDUCTANCE: November 2005 to September 2006.

WATER TEMPERATURE: November 2005 to September 2006.

INSTRUMENTATION.--Water-quality monitor since November 2005.

REMARKS.--Interruptions in record were due to malfunction of the sensing and (or) recording instrument and biological interference within the conductivity cell. The probe is set at 10 ft below the water surface at Mean Lower Low Water (MLLW). MLLW is about 16 ft. Daily maximums and minimums sometimes differ from tidal cycle (24.8 hours) maximums and minimums. Specific conductivity records are rated excellent except for the following periods of fouling: June 10-13, July 7-11, which are rated good; June 14, 15, July 12, rated fair; and July 13-18, which are rated poor. Water temperature records are rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 46,200 microsiemens, Dec. 1, 2005; minimum recorded, 163 microsiemens, Jan. 5, 2006.

WATER TEMPERATURE: Maximum recorded, 20.0°C, June 22, July 1, 2006; minimum recorded, 10.0°C, Dec. 17, 2005, Mar. 13, 14, 2006.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 46,200 microsiemens, Dec. 1; minimum recorded, 163 microsiemens, Jan. 5.

WATER TEMPERATURE: Maximum recorded, 20.0°C, June 22, July 1; minimum recorded, 10.0°C, Dec. 17, Mar. 13, 14.

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	---	---	---	---	46,200	35,700	31,600	3,030	32,300	11,000	37,000	21,400
2	---	---	---	---	45,900	37,500	27,600	562	31,900	9,170	37,400	18,300
3	---	---	---	---	45,800	36,200	12,500	228	32,600	11,700	37,800	17,800
4	---	---	---	---	45,800	34,500	8,540	177	33,200	12,000	35,400	12,300
5	---	---	---	---	45,400	34,200	13,600	163	34,300	10,100	34,100	7,880
6	---	---	---	---	45,300	34,100	21,100	278	37,100	10,500	32,800	8,030
7	---	---	---	---	44,100	34,100	27,000	360	39,000	15,000	35,700	4,920
8	---	---	---	---	43,500	33,700	26,300	1,220	39,100	15,100	36,600	6,880
9	---	---	---	---	43,400	31,700	28,000	1,430	38,200	14,700	36,200	8,390
10	---	---	44,100	37,300	44,100	33,900	34,400	2,320	38,000	14,100	38,400	6,800
11	---	---	43,900	37,300	44,600	34,800	31,600	3,210	36,100	13,000	37,100	6,430
12	---	---	43,900	37,400	44,500	34,900	34,000	2,180	34,800	11,500	34,200	6,180
13	---	---	44,300	36,800	44,600	35,600	35,600	4,010	35,500	12,900	30,900	5,480
14	---	---	44,600	37,000	45,000	35,600	32,000	5,660	36,300	15,100	29,000	5,920
15	---	---	45,100	36,700	45,400	35,700	31,800	4,250	36,200	14,500	27,600	5,030
16	---	---	45,600	36,200	45,500	35,600	33,600	3,520	35,900	13,000	29,000	5,720
17	---	---	45,800	36,600	45,400	35,100	---	---	38,300	11,700	32,000	7,060
18	---	---	45,800	36,800	44,500	35,400	---	---	39,600	17,800	34,000	8,690
19	---	---	45,900	37,300	44,000	34,400	---	---	40,400	17,100	34,900	10,400
20	---	---	45,700	36,700	43,800	33,100	---	---	41,400	19,400	37,500	8,650
21	---	---	45,600	36,600	43,400	30,700	---	---	42,100	21,000	37,300	8,550
22	---	---	45,400	36,000	41,000	28,400	---	---	42,000	23,600	37,300	7,630
23	---	---	44,300	35,500	40,600	27,200	---	---	42,400	23,200	37,600	9,160
24	---	---	43,600	34,800	42,100	26,200	---	---	41,700	26,200	36,500	10,100
25	---	---	43,900	35,600	43,300	26,500	---	---	40,500	26,400	31,700	8,950
26	---	---	44,000	37,600	41,600	24,700	---	---	40,200	26,200	32,900	9,410
27	---	---	44,000	37,200	40,400	23,100	36,600	16,800	39,000	25,800	31,900	8,620
28	---	---	44,500	36,100	38,400	20,300	35,800	13,100	38,300	24,400	30,600	9,220
29	---	---	44,900	36,100	38,500	14,400	35,400	13,300	---	---	30,700	6,660
30	---	---	45,100	37,100	38,300	8,360	34,600	11,600	---	---	29,700	6,990
31	---	---	---	---	34,100	5,890	34,100	12,800	---	---	30,800	4,830
Month	---	---	---	---	46,200	5,890	---	---	42,400	9,170	38,400	4,830

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	31,400	4,410	33,700	3,150	39,300	11,700	39,000	20,400	---	---	---	---
2	30,900	3,340	33,800	3,260	39,100	14,100	37,900	22,400	---	---	---	---
3	35,400	3,370	33,400	5,660	38,200	16,100	39,400	26,500	---	---	---	---
4	36,300	4,120	33,100	5,950	39,000	19,600	38,500	25,300	---	---	---	---
5	28,900	5,310	34,100	5,020	39,800	19,000	38,800	23,200	---	---	---	---
6	22,000	3,310	34,200	5,680	39,700	21,100	38,200	25,100	---	---	---	---
7	22,200	2,500	35,900	6,920	39,200	19,200	37,800	24,100	---	---	---	---
8	22,100	1,670	36,600	7,760	38,600	21,200	37,900	24,900	---	---	---	---
9	26,300	1,820	37,100	8,210	38,900	20,500	38,300	25,900	---	---	---	---
10	26,500	2,520	38,500	8,680	39,200	19,500	38,200	27,400	---	---	---	---
11	26,300	2,790	37,400	9,790	39,600	19,500	37,800	28,200	---	---	---	---
12	26,000	2,750	36,800	12,000	39,600	21,900	37,700	27,900	---	---	---	---
13	31,700	3,050	36,500	11,000	39,200	22,600	37,900	27,600	---	---	---	---
14	33,200	4,380	38,400	11,900	39,000	21,500	38,100	28,300	---	---	---	---
15	28,800	2,270	37,600	10,500	---	---	38,000	29,100	---	---	---	---
16	30,400	952	37,700	12,500	---	---	38,100	29,800	---	---	---	---
17	30,400	778	37,800	10,900	39,600	17,600	38,900	30,100	---	---	---	---
18	31,300	1,620	38,000	9,600	38,800	17,000	---	---	---	---	---	---
19	27,300	1,650	39,000	10,200	38,700	18,600	---	---	---	---	---	---
20	26,200	1,760	40,100	10,300	39,300	20,200	---	---	---	---	---	---
21	29,600	3,180	39,000	14,300	39,700	21,700	---	---	---	---	---	---
22	30,000	3,250	36,500	16,900	40,100	20,900	---	---	---	---	---	---
23	34,300	3,600	34,300	16,000	40,200	22,900	---	---	---	---	---	---
24	30,300	4,900	35,700	14,800	40,300	24,200	---	---	---	---	---	---
25	---	---	36,200	16,700	40,400	24,600	---	---	---	---	---	---
26	30,100	7,030	37,200	17,600	40,600	24,500	---	---	---	---	44,400	34,300
27	29,500	6,590	37,300	15,600	40,700	24,300	---	---	---	---	44,700	34,700
28	30,800	2,810	38,000	15,200	40,700	23,900	---	---	---	---	45,000	35,000
29	31,300	3,440	37,800	14,800	40,300	23,900	---	---	---	---	45,200	34,700
30	33,700	1,900	38,600	12,900	39,800	22,700	---	---	---	---	45,300	35,700
31	---	---	39,100	13,400	---	---	---	---	---	---	---	---
Month	---	---	40,100	3,150	---	---	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	---	---	---	---	13.0	12.5	12.5	12.0	11.5	11.0	12.5	11.5
2	---	---	---	---	13.0	12.0	12.5	11.5	11.5	11.0	12.5	11.5
3	---	---	---	---	12.5	11.5	12.0	11.0	12.0	11.0	12.0	11.5
4	---	---	---	---	12.5	11.5	11.5	10.5	12.0	11.5	12.0	11.5
5	---	---	---	---	12.0	11.5	11.5	10.5	12.0	11.0	11.5	11.0
6	---	---	---	---	12.0	11.5	11.5	10.5	12.0	11.0	11.5	11.0
7	---	---	---	---	12.0	11.5	12.0	10.5	12.0	11.5	11.5	11.0
8	---	---	---	---	11.5	11.5	12.0	11.0	12.0	11.5	11.5	11.0
9	---	---	---	---	12.0	11.5	12.0	10.5	12.0	12.0	11.5	11.0
10	---	---	15.5	15.0	11.5	11.5	12.0	11.0	12.5	12.0	11.5	11.0
11	---	---	15.5	15.0	11.5	11.5	12.0	11.0	12.5	12.0	11.5	10.5
12	---	---	15.5	15.0	11.5	11.5	12.0	11.0	12.5	12.0	11.5	10.5
13	---	---	15.5	14.5	11.5	11.5	12.0	11.0	12.5	12.0	11.5	10.0
14	---	---	15.5	14.5	11.5	11.0	12.0	11.0	12.5	12.0	11.0	10.0
15	---	---	15.5	14.5	11.5	11.0	12.0	10.5	12.5	11.5	11.0	10.5
16	---	---	15.0	14.5	11.5	10.5	12.0	10.5	12.0	11.0	11.5	10.5
17	---	---	15.5	14.5	11.0	10.0	---	---	12.0	11.0	12.0	11.0
18	---	---	15.0	14.5	11.0	10.5	---	---	11.5	11.0	11.5	11.0
19	---	---	15.0	14.0	11.0	10.5	---	---	11.0	10.5	11.5	11.0
20	---	---	15.0	14.0	11.0	10.5	---	---	11.0	10.5	11.5	11.0
21	---	---	14.5	14.0	11.5	11.0	---	---	11.5	10.5	11.5	11.0
22	---	---	14.5	14.0	11.5	11.0	---	---	11.5	10.5	11.5	11.0
23	---	---	14.5	14.0	11.5	11.0	---	---	11.5	10.5	12.0	11.5
24	---	---	14.5	14.0	12.0	11.5	---	---	12.0	10.5	12.0	11.5
25	---	---	14.0	14.0	12.0	11.5	---	---	12.0	11.0	13.5	11.5
26	---	---	14.0	13.5	12.0	11.5	---	---	11.5	11.0	13.0	12.0
27	---	---	13.5	13.0	12.0	11.5	12.0	11.0	12.0	11.0	12.5	12.0
28	---	---	13.5	12.5	12.5	12.0	12.0	10.5	12.5	11.5	12.5	12.0
29	---	---	13.0	13.0	12.5	11.5	12.0	11.0	---	---	12.5	12.0
30	---	---	13.0	12.5	12.5	12.0	12.0	11.0	---	---	12.5	12.0
31	---	---	---	---	13.0	12.0	11.5	11.0	---	---	12.0	12.0
Month	---	---	---	---	13.0	10.0	---	---	12.5	10.5	13.5	10.0

380109122250401 San Pablo Bay at Hamilton Disposal, near San Rafael, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	12.5	12.0	16.5	14.0	18.0	13.5	20.0	16.5	---	---	---	---
2	12.5	12.0	16.5	14.0	18.0	13.5	19.0	16.5	---	---	---	---
3	12.5	12.0	17.5	14.0	18.5	14.0	18.5	16.0	---	---	---	---
4	12.5	12.0	17.0	13.5	18.5	13.5	18.5	16.0	---	---	---	---
5	12.5	12.0	17.0	13.5	19.0	13.5	18.5	15.5	---	---	---	---
6	12.5	12.0	17.5	13.5	19.0	13.5	18.5	15.5	---	---	---	---
7	13.0	12.0	17.0	13.5	18.5	14.0	19.0	15.5	---	---	---	---
8	13.0	12.0	17.5	13.5	18.0	14.5	19.5	15.5	---	---	---	---
9	13.0	12.5	18.5	13.5	18.0	14.5	19.5	15.5	---	---	---	---
10	13.5	12.5	18.5	13.0	18.5	14.5	19.0	16.0	---	---	---	---
11	13.0	12.5	17.5	13.0	18.0	14.0	18.5	15.5	---	---	---	---
12	13.5	12.5	18.0	13.5	18.0	14.5	19.0	16.0	---	---	---	---
13	14.0	12.5	17.0	13.5	17.5	14.5	19.5	16.0	---	---	---	---
14	14.0	12.5	17.0	13.5	17.5	14.5	19.0	16.0	---	---	---	---
15	14.0	13.0	18.0	13.5	---	---	19.0	16.0	---	---	---	---
16	13.5	13.0	17.5	13.5	---	---	19.5	16.5	---	---	---	---
17	13.5	13.0	18.0	13.5	19.0	14.5	19.5	16.5	---	---	---	---
18	14.0	13.0	18.5	14.0	19.5	15.0	---	---	---	---	---	---
19	14.5	13.0	18.0	13.5	18.5	15.0	---	---	---	---	---	---
20	14.5	13.0	18.0	13.0	18.5	15.0	---	---	---	---	---	---
21	15.5	13.5	17.5	13.0	18.5	15.0	---	---	---	---	---	---
22	15.0	13.5	18.0	13.5	20.0	15.0	---	---	---	---	---	---
23	15.5	13.5	18.0	14.5	19.5	15.0	---	---	---	---	---	---
24	15.0	13.5	17.5	14.5	19.5	15.5	---	---	---	---	---	---
25	---	---	17.5	15.0	19.5	15.5	---	---	---	---	---	---
26	15.5	13.5	17.0	14.5	19.5	15.5	---	---	---	---	19.0	16.5
27	16.5	14.0	16.5	14.5	19.5	15.5	---	---	---	---	19.0	16.5
28	15.5	14.0	17.0	14.0	19.0	15.5	---	---	---	---	18.5	16.0
29	16.0	14.0	17.0	14.0	19.5	16.0	---	---	---	---	18.5	16.0
30	16.0	14.0	17.5	14.0	19.5	16.0	---	---	---	---	18.0	16.0
31	---	---	17.5	13.5	---	---	---	---	---	---	---	---
Month	---	---	18.5	13.0	---	---	---	---	---	---	---	---