

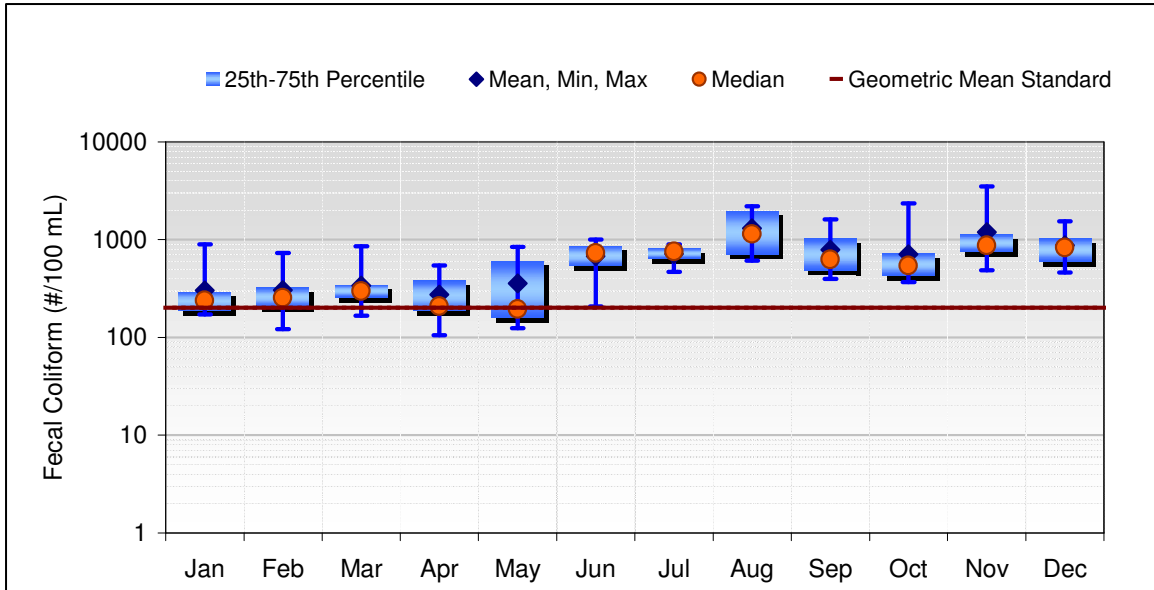
## **APPENDIX B. DATA ANALYSIS**

Staff analyzed water quality data using a program developed by Tetra Tech, the United States Environmental Protection Agencies' contractor. The program is titled "Fecal Coliform Investigation and Analysis Spreadsheet (FECIA)." FECIA is a fully automated spreadsheet designed to assist in characterization and quantification of fecal coliform instream water quality objective exceedances. Data were compared against water quality objectives to determine magnitude and frequency of exceedances. FECIA generated the data analysis figures and tables that were used in completing the data analysis for this report. They are included here for reference.

All tables in Appendix 2 provide summary statistics for the figures shown above the tables. The table displays statistical data on a monthly basis including the mean, median, minimum, maximum, number of exceedances of the water contact recreation water quality objective versus the sample count (XS:Count), and the percent sample exceedance (XS%) of the water quality objective. Note that when the table analyzed geometric means, the column entitled "mean" was actually the "mean of the geometric mean." The mean value for the maximum water quality objective or criterion is the actual mean value of the samples collected.

## A. Soquel Creek at Flume Outlet (S0)

### Geometric Mean Water Quality Objective (200 MPN/100 ml)

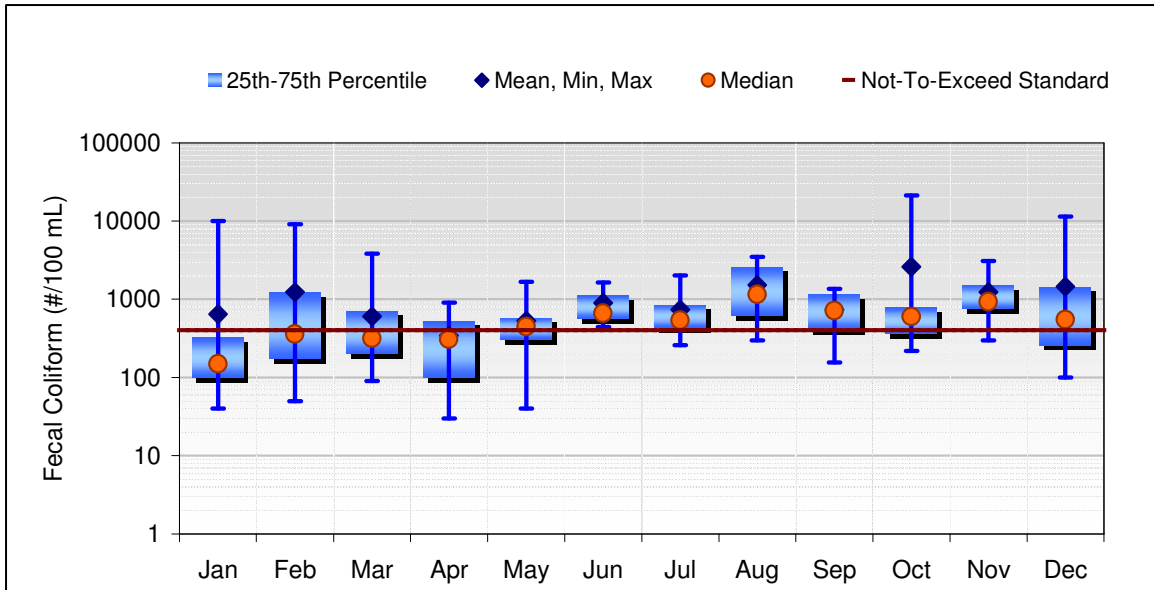


**Figure 1. Soquel Creek at Flume Outlet Fecal Coliform (#/100 ml) and Water Contact Recreation Geometric Mean Water Quality Objective (January 6, 2003 through January 31, 2006)**

**Table 1. Soquel Creek at Flume Outlet Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contract Recreation Geometric Mean Water Quality Objective**

Summary Statistics ( Data: 1/6/2003 to 1/31/2006 )									
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%	
Jan	303	239	171	894	186	293	14:22	64%	
Feb	304	255	122	733	205	325	9:12	75%	
Mar	339	299	166	856	256	345	12:13	92%	
Apr	275	209	105	543	188	383	7:13	54%	
May	356	195	124	840	159	606	7:14	50%	
Jun	680	732	208	1003	537	866	18:18	100%	
Jul	712	755	470	893	636	812	17:17	100%	
Aug	1306	1142	609	2185	707	1975	16:16	100%	
Sep	784	630	394	1616	486	1026	15:15	100%	
Oct	710	543	369	2343	429	724	18:18	100%	
Nov	1191	875	488	3506	758	1126	18:18	100%	
Dec	877	830	460	1544	599	1032	17:17	100%	
<b>All Data</b>	<b>670</b>	<b>599</b>	<b>105</b>	<b>3506</b>	<b>286</b>	<b>835</b>	<b>168:193</b>	<b>87%</b>	

Maximum Water Quality Objective (400 MPN/100 ml)



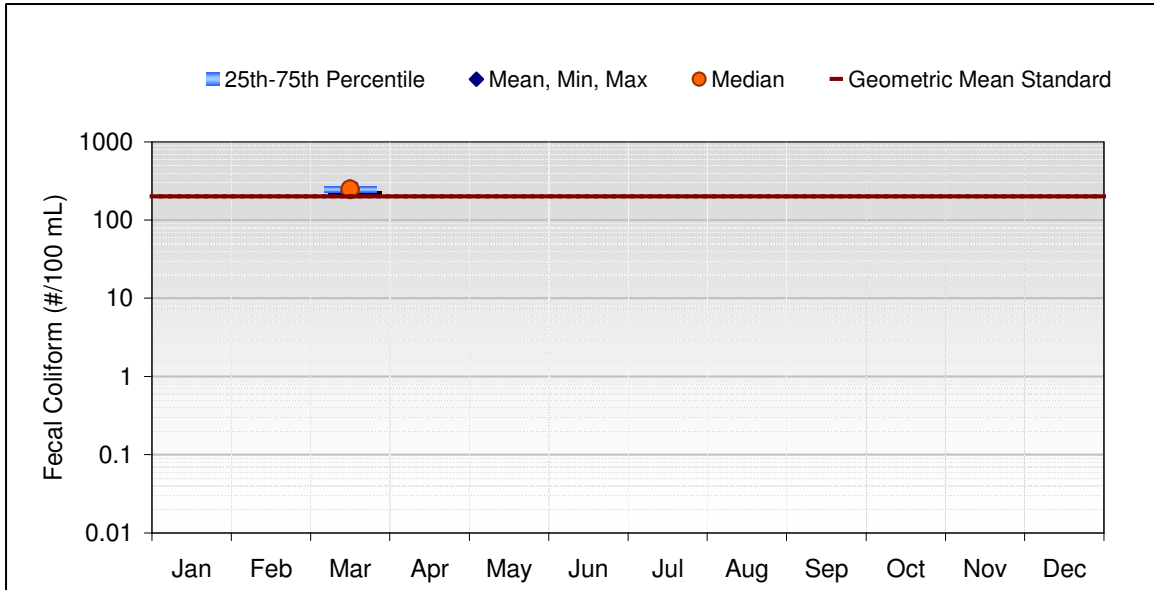
**Figure 2. Soquel Creek at Flume Outlet Fecal Coliform (#/100 ml) and Water Contact Maximum Water Quality Objective (January 6, 2003 through January 31, 2006)**

**Table 2. Soquel Creek at Flume Outlet Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contract Recreation Maximum Water Quality Objective**

Summary Statistics ( Data: 1/6/2003 to 1/31/2006 )									
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%	
Jan	645	150	40	10000	100	325	4:23	17%	
Feb	1236	360	50	9100	173	1223	6:14	43%	
Mar	604	320	90	3840	200	710	8:17	47%	
Apr	344	310	30	910	100	530	6:17	35%	
May	528	450	40	1670	305	583	10:16	63%	
Jun	895	665	440	1640	568	1115	20:20	100%	
Jul	739	540	260	2020	430	850	11:15	73%	
Aug	1524	1160	300	3480	613	2590	18:19	95%	
Sep	741	720	156	1350	410	1153	14:18	78%	
Oct	2596	600	220	21200	360	780	12:17	71%	
Nov	1245	935	300	3075	755	1500	16:18	89%	
Dec	1460	550	100	11370	260	1430	10:17	59%	
<b>All Data</b>	<b>1039</b>	<b>545</b>	<b>30</b>	<b>21200</b>	<b>300</b>	<b>985</b>	<b>135:211</b>	<b>64%</b>	

## B. Soquel Creek Above Stockton Bridge East (S04)

### Geometric Mean Water Quality Objective (200 MPN/100 ml)

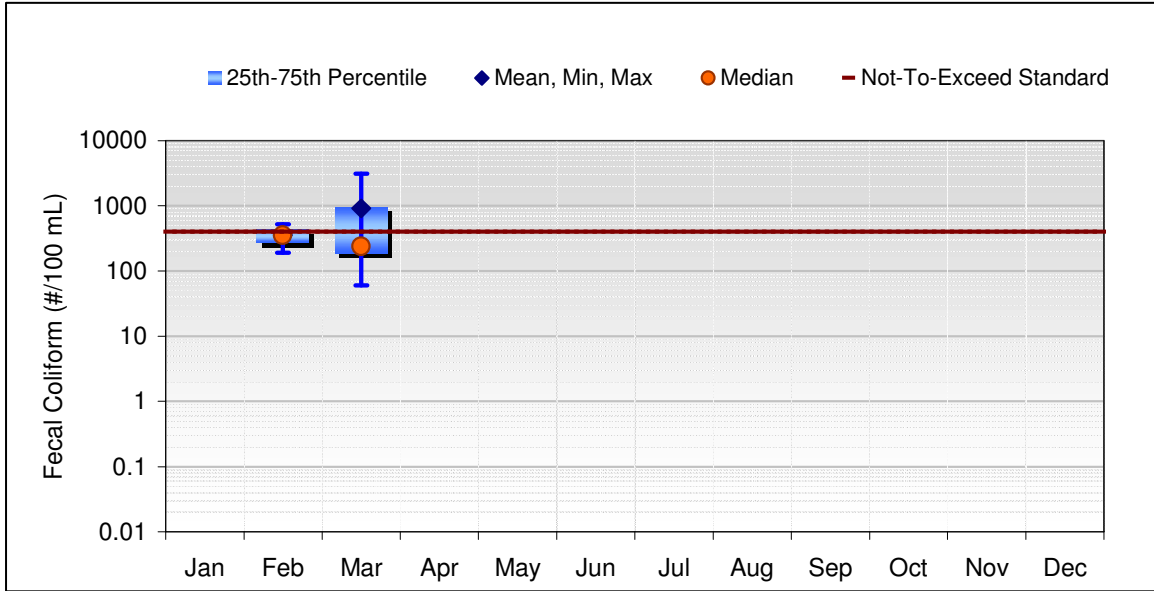


**Figure 3. Soquel Creek Above Stockton Bridge East Fecal Coliform (#/100 ml) and Water Contact Recreation Geometric Mean Water Quality Objective (February 17, 2005 through March 22, 2005)**

**Table 3. Soquel Creek Above Stockton Bridge East Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contract Recreation Geometric Mean Water Quality Objective**

Summary Statistics ( Data: 2/17/2005 to 3/22/2005 )									
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%	
Jan	0	0	0	0	0	0	0:0	n/a	
Feb	0	0	0	0	0	0	0:0	n/a	
Mar	246	246	203	289	224	268	2:2	100%	
Apr	0	0	0	0	0	0	0:0	n/a	
May	0	0	0	0	0	0	0:0	n/a	
Jun	0	0	0	0	0	0	0:0	n/a	
Jul	0	0	0	0	0	0	0:0	n/a	
Aug	0	0	0	0	0	0	0:0	n/a	
Sep	0	0	0	0	0	0	0:0	n/a	
Oct	0	0	0	0	0	0	0:0	n/a	
Nov	0	0	0	0	0	0	0:0	n/a	
Dec	0	0	0	0	0	0	0:0	n/a	
<b>All Data</b>	<b>246</b>	<b>246</b>	<b>203</b>	<b>289</b>	<b>224</b>	<b>268</b>	<b>2:2</b>	<b>100%</b>	

Maximum Water Quality Objective (400 MPN/100 ml)



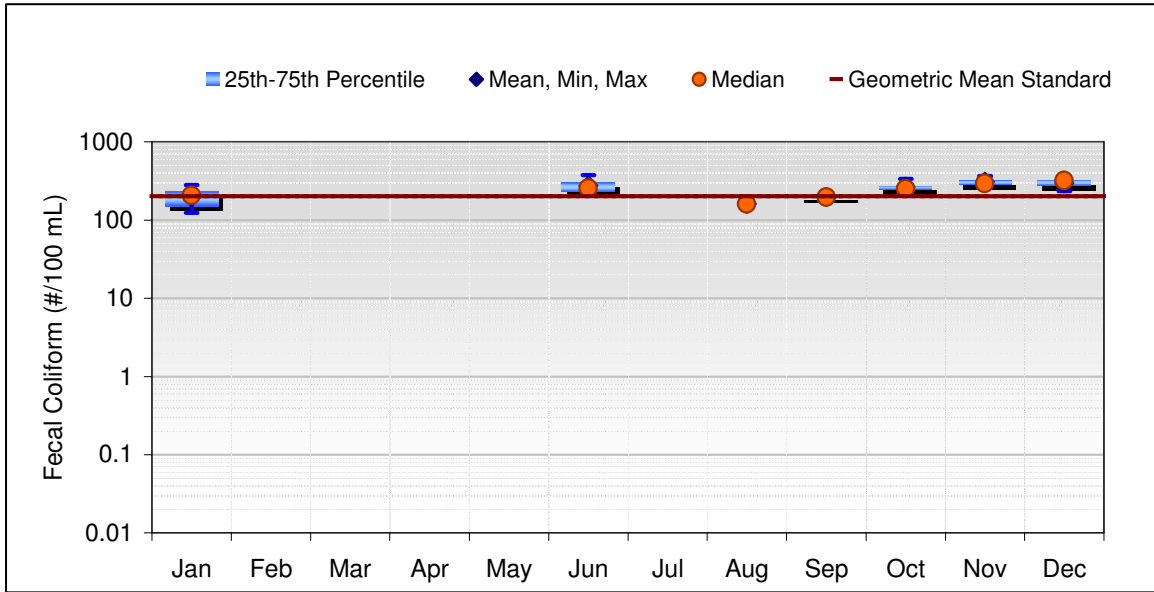
**Figure 4. Soquel Creek Above Stockton Bridge East Fecal Coliform (#/100 ml) and Water Contact Maximum Water Quality Objective (March 17, 2005 through March 22, 2005)**

**Table 4. Soquel Creek Above Stockton Bridge East Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contract Recreation Maximum Water Quality Objective**

Summary Statistics ( Data: 2/17/2005 to 3/22/2005 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	0	0	0	0	0	0	0:0	n/a
Feb	355	355	190	520	273	438	1:2	50%
Mar	910	240	60	3100	188	963	1:4	25%
Apr	0	0	0	0	0	0	0:0	n/a
May	0	0	0	0	0	0	0:0	n/a
Jun	0	0	0	0	0	0	0:0	n/a
Jul	0	0	0	0	0	0	0:0	n/a
Aug	0	0	0	0	0	0	0:0	n/a
Sep	0	0	0	0	0	0	0:0	n/a
Oct	0	0	0	0	0	0	0:0	n/a
Nov	0	0	0	0	0	0	0:0	n/a
Dec	0	0	0	0	0	0	0:0	n/a
<b>All Data</b>	<b>725</b>	<b>240</b>	<b>60</b>	<b>3100</b>	<b>200</b>	<b>453</b>	<b>2:6</b>	<b>33%</b>

### C. Soquel Creek at Railroad Trestle (S07)

#### Geometric Mean Objective (200 MPN/100 ml)

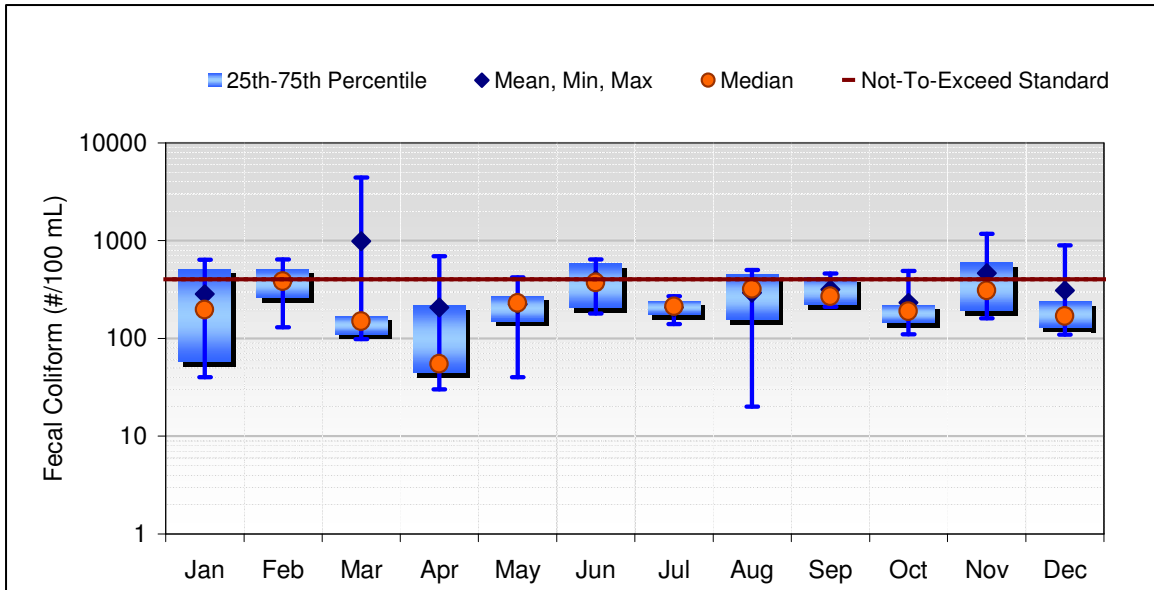


**Figure 5. Soquel Creek at Railroad Trestle Fecal Coliform (#/100 ml) and Water Contact Recreation Geometric Mean Water Quality Objective (January 28, 2003 through January 31, 2006)**

**Table 5. Soquel Creek at Railroad Trestle Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contract Recreation Geometric Mean Water Quality Objective**

Summary Statistics ( Data: 1/28/2003 to 1/31/2006 )									
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%	
Jan	199	207	124	280	150	234	3:5	60%	
Feb	0	0	0	0	0	0	0:0	n/a	
Mar	0	0	0	0	0	0	0:0	n/a	
Apr	0	0	0	0	0	0	0:0	n/a	
May	0	0	0	0	0	0	0:0	n/a	
Jun	277	256	221	375	229	304	4:4	100%	
Jul	0	0	0	0	0	0	0:0	n/a	
Aug	161	161	161	161	161	161	0:1	0%	
Sep	198	198	178	216	191	205	2:4	50%	
Oct	265	253	216	337	244	274	4:4	100%	
Nov	310	294	282	368	284	320	4:4	100%	
Dec	296	322	235	331	278	327	3:3	100%	
<b>All Data</b>	<b>250</b>	<b>235</b>	<b>124</b>	<b>375</b>	<b>207</b>	<b>285</b>	<b>20:25</b>	<b>80%</b>	

Maximum Objective (400 MPN/100 ml)



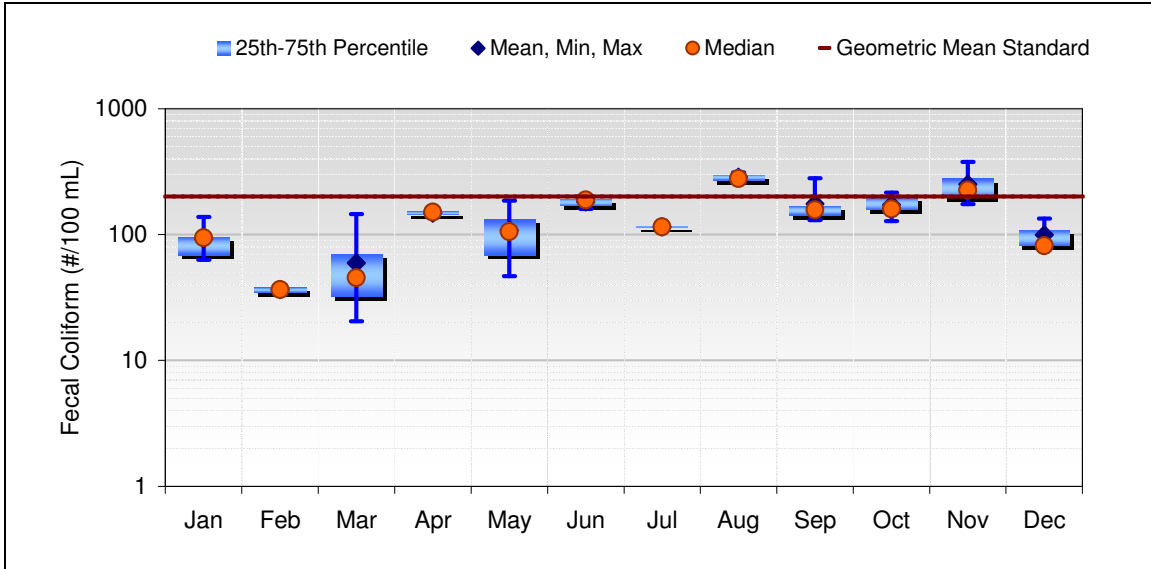
**Figure 6. Soquel Creek at Railroad Trestle Fecal Coliform (#/100 ml) and Exceedance of Water Contract Recreation Maximum Water Quality Objective (January 28, 2003 through January 31, 2006)**

**Table 6. Soquel Creek at Railroad Trestle Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 1/28/2003 to 1/31/2006 )										
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%		
Jan	284	198	40	637	58	514	2:6	33%		
Feb	385	385	130	640	258	513	1:2	50%		
Mar	988	150	98	4410	110	170	1:5	20%		
Apr	208	55	30	693	45	218	1:4	25%		
May	222	230	40	420	150	272	1:5	20%		
Jun	395	374	180	640	205	583	3:6	50%		
Jul	208	213	140	270	177	242	0:3	0%		
Aug	292	320	20	500	156	449	2:6	33%		
Sep	316	269	210	460	220	420	2:5	40%		
Oct	231	190	110	490	146	220	1:5	20%		
Nov	465	311	160	1170	193	593	2:6	33%		
Dec	310	170	109	900	130	240	1:5	20%		
<b>All Data</b>	<b>365</b>	<b>218</b>	<b>20</b>	<b>4410</b>	<b>133</b>	<b>450</b>	<b>17:58</b>	<b>29%</b>		

## D. Soquel Creek at Nob Hill (S23)

### Geometric Mean Water Quality Objective (200 MPN/100 ml)



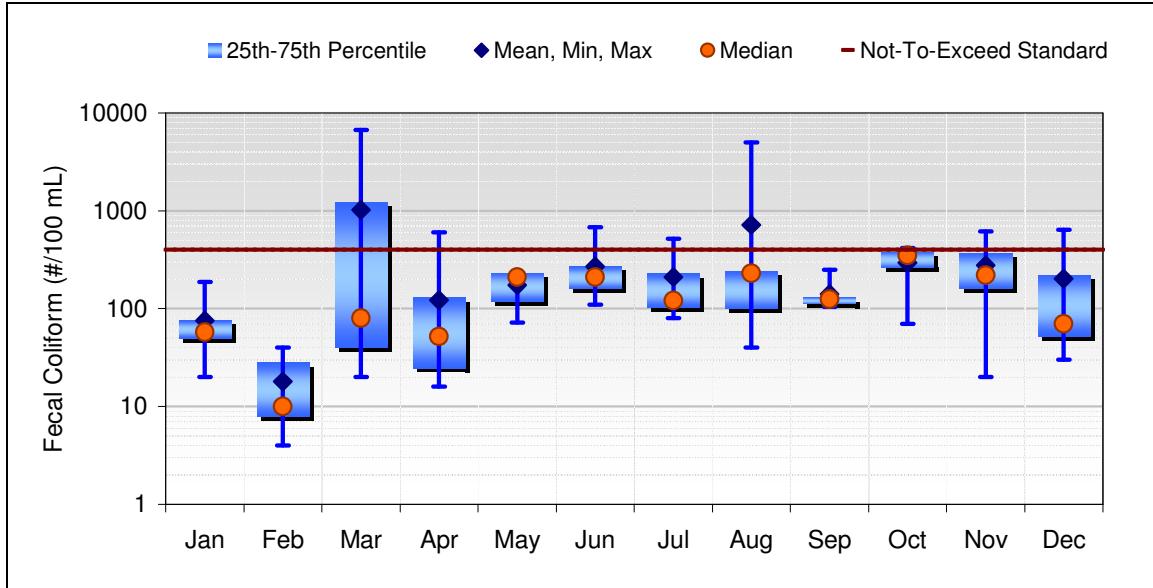
**Figure 7. Soquel Creek at Nob Hill Fecal Coliform (#/100 ml) and Water Contact Recreation Geometric Mean Water Quality Objective (January 21, 2004 through May 13, 2006).**

**Table 7. Soquel Creek at Nob Hill Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Geometric Mean Objective.**

Summary Statistics ( Data: 1/21/2004 to 5/13/2006 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	92	94	63	138	69	96	0:5	0%
Feb	37	37	33	40	35	38	0:2	0%
Mar	59	45	20	146	32	70	0:7	0%
Apr	148	150	138	153	146	153	0:4	0%
May	108	106	47	187	69	131	0:5	0%
Jun	182	188	159	197	171	192	0:6	0%
Jul	115	115	112	118	114	117	0:2	0%
Aug	285	278	264	313	272	297	5:5	100%
Sep	176	157	130	280	143	168	1:5	20%
Oct	172	160	128	215	158	198	1:5	20%
Nov	251	225	174	378	198	278	3:4	75%
Dec	99	82	81	134	82	108	0:3	0%
<b>All Data</b>	<b>148</b>	<b>146</b>	<b>20</b>	<b>378</b>	<b>94</b>	<b>192</b>	<b>10:53</b>	<b>19%</b>



Maximum Water Quality Objective (400 MPN/100 ml)



**Figure 8. Soquel Creek at Nob Hill Fecal Coliform (#/100 ml) and Water Contact Recreation Maximum Water Quality Objective (January 21, 2004 through May 13, 2006).**

**Table 8. Soquel Creek at Nob Hill Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 1/21/2004 to 5/13/2006 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	76	58	20	188	50	76	0:6	0%
Feb	18	10	4	40	8	28	0:5	0%
Mar	1018	80	20	6700	40	1220	4:13	31%
Apr	122	52	16	600	25	130	1:9	11%
May	174	210	72	230	120	230	0:9	0%
Jun	270	210	110	680	161	270	2:8	25%
Jul	211	121	80	520	104	228	1:4	25%
Aug	718	230	40	4990	100	240	1:9	11%
Sep	141	125	104	250	113	130	0:6	0%
Oct	296	349	70	415	264	381	1:4	25%
Nov	277	220	20	615	160	370	1:5	20%
Dec	203	70	30	640	53	220	1:4	25%
<b>All Data</b>	<b>367</b>	<b>130</b>	<b>4</b>	<b>6700</b>	<b>60</b>	<b>238</b>	<b>12:82</b>	<b>15%</b>

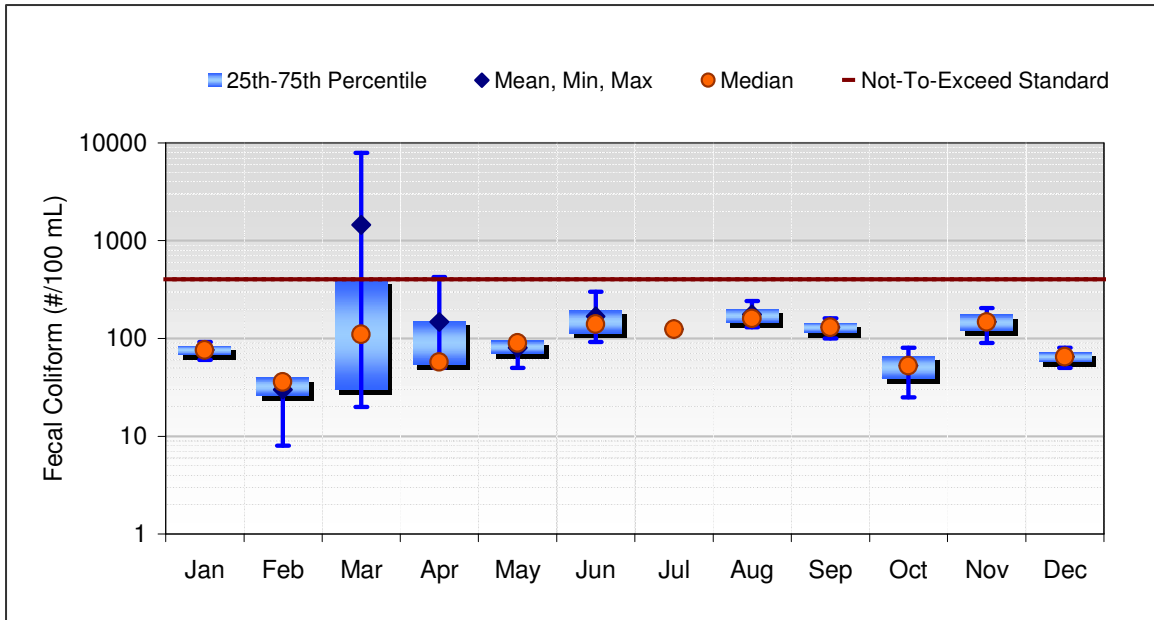
## E. Soquel Creek at Porter Street Bridge (S2315)

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### Geometric Mean Water Quality Objective (200 MPN/100 ml)

There was not enough water quality data collected at the Soquel Creek at Porter Street Bridge sampling station to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 ml)



**Figure 9. Soquel Creek at Porter Street Bridge Fecal Coliform (#/100 ml) and Water Contact Recreation Maximum Water Quality Objective (June 16, 2003 through April 25, 2006)**

**Table 9. Soquel Creek at Porter Street Bridge Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 6/16/2003 to 4/25/2006 )										
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%		
Jan	76	76	60	92	68	84	0:2	0%		
Feb	30	36	8	40	26	40	0:4	0%		
Mar	1443	110	20	7920	30	400	2:6	33%		
Apr	148	58	50	425	54	151	1:4	25%		
May	80	90	50	100	70	95	0:3	0%		
Jun	168	140	92	300	113	195	0:4	0%		
Jul	124	124	124	124	124	124	0:1	0%		
Aug	177	160	130	240	145	200	0:3	0%		
Sep	130	130	100	160	115	145	0:2	0%		
Oct	53	53	25	80	39	66	0:2	0%		
Nov	148	148	90	205	119	176	0:2	0%		
Dec	65	65	50	80	58	73	0:2	0%		
<b>All Data</b>	<b>339</b>	<b>90</b>	<b>8</b>	<b>7920</b>	<b>50</b>	<b>160</b>	<b>3:35</b>	<b>9%</b>		

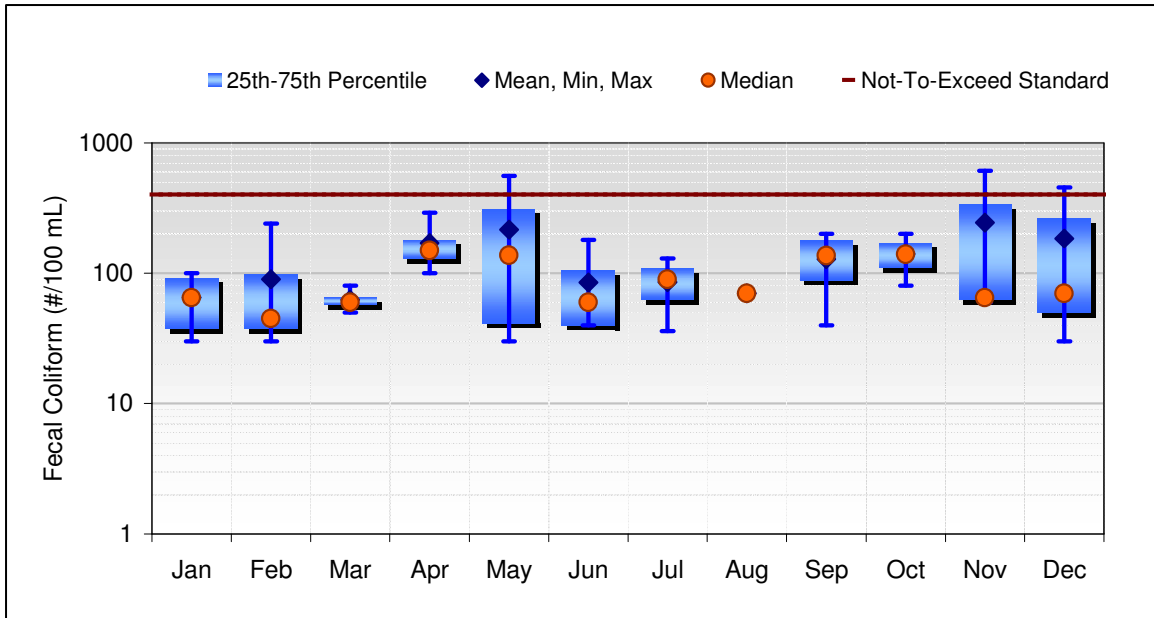
F. West Branch Soquel Creek at San Jose at Olive Springs Rd. (S6)

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Geometric Mean Water Quality Objective (200 MPN/100 ml)

There was not enough water quality data collected at the West Branch Soquel Creek at San Jose at Olive Springs Rd. sampling station to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 ml)



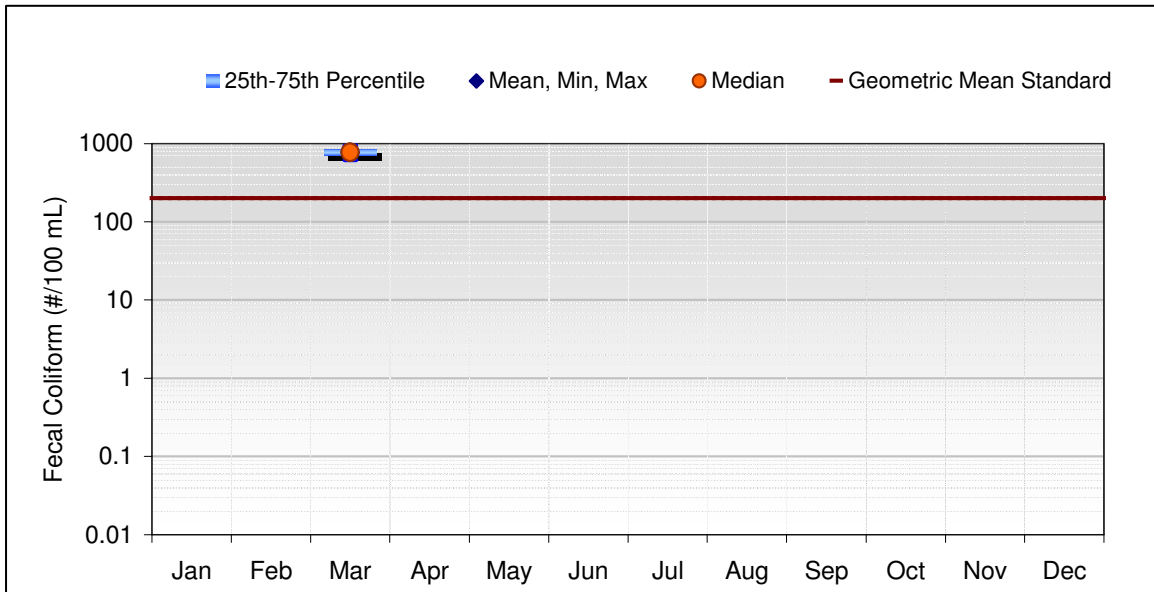
**Figure 10. West Branch Soquel Creek at San Jose at Olive Springs Rd. Fecal Coliform (#/100 ml) and Water Contact Recreation Maximum Water Quality Objective (January 13, 2003 through May 9, 2006).**

**Table 10. West Branch Soquel Creek at San Jose at Olive Springs Rd. Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 1/13/2003 to 5/9/2006 )										
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%		
Jan	65	65	30	100	38	93	0:4	0%		
Feb	90	45	30	240	38	98	0:4	0%		
Mar	63	60	50	80	58	65	0:4	0%		
Apr	170	150	100	290	130	180	0:5	0%		
May	216	138	30	560	41	313	1:4	25%		
Jun	85	60	40	180	40	105	0:4	0%		
Jul	85	90	36	130	63	110	0:3	0%		
Aug	70	70	70	70	70	70	0:1	0%		
Sep	129	137	40	200	88	178	0:4	0%		
Oct	140	140	80	200	110	170	0:3	0%		
Nov	245	65	60	610	63	338	1:3	33%		
Dec	185	70	30	455	50	263	1:3	33%		
<b>All Data</b>	<b>130</b>	<b>80</b>	<b>30</b>	<b>610</b>	<b>46</b>	<b>165</b>	<b>3:42</b>	<b>7%</b>		

G. Noble Gulch at Soquel Creek (S1)

Geometric Mean Water Quality Objective (200 MPN/100 ml)

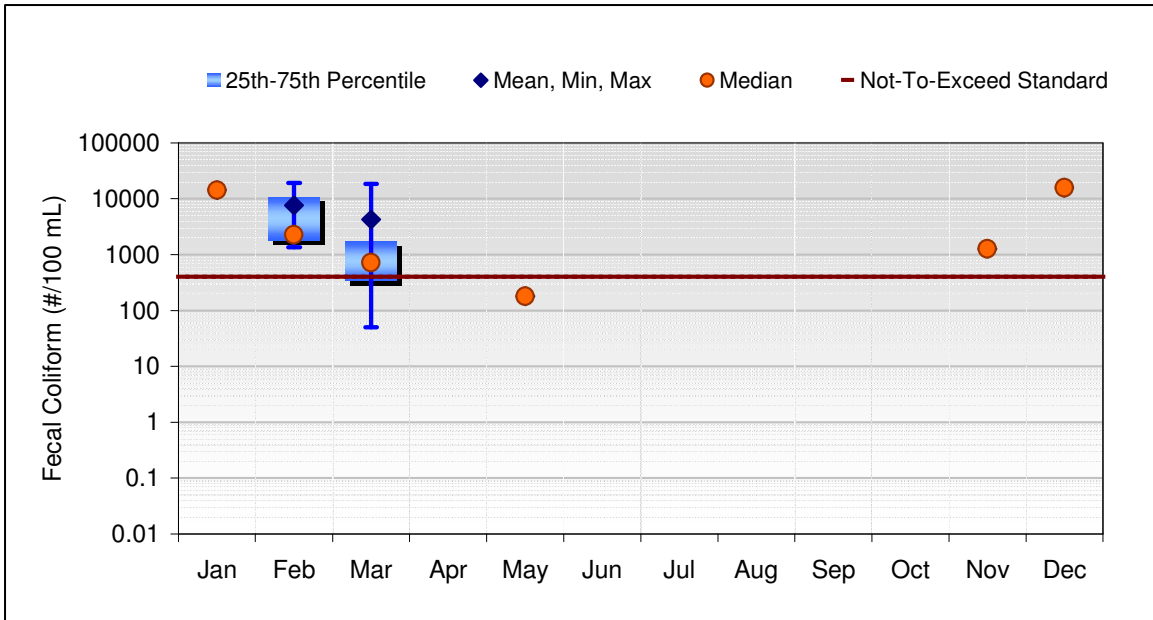


**Figure 11. Noble Gulch at Soquel Creek Fecal Coliform (#/100 ml) and Water Contact Recreation Geometric Mean Water Quality Objective (January 13, 2003 through March 22, 2005)**

**Table 11. Noble Gulch at Soquel Creek Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Geometric Mean Objective**

Summary Statistics ( Data: 1/13/2003 to 3/22/2005 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	0	0	0	0	0	0	0:0	n/a
Feb	0	0	0	0	0	0	0:0	n/a
Mar	776	776	616	936	696	856	2:2	100%
Apr	0	0	0	0	0	0	0:0	n/a
May	0	0	0	0	0	0	0:0	n/a
Jun	0	0	0	0	0	0	0:0	n/a
Jul	0	0	0	0	0	0	0:0	n/a
Aug	0	0	0	0	0	0	0:0	n/a
Sep	0	0	0	0	0	0	0:0	n/a
Oct	0	0	0	0	0	0	0:0	n/a
Nov	0	0	0	0	0	0	0:0	n/a
Dec	0	0	0	0	0	0	0:0	n/a
<b>All Data</b>	<b>776</b>	<b>776</b>	<b>616</b>	<b>936</b>	<b>696</b>	<b>856</b>	<b>2:2</b>	<b>100%</b>

Maximum Water Quality Objective (400 MPN/100 ml)



**Figure 12. Noble Gulch at Soquel Creek Fecal Coliform (#/100 ml) and Water Contact Recreation Maximum Water Quality Objective (January 13, 2003 through March 22, 2005)**

**Table 12. Noble Gulch at Soquel Creek Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 1/13/2003 to 3/22/2005 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	14200	14200	14200	14200	14200	14200	1:1	100%
Feb	7633	2260	1340	19300	1800	10780	3:3	100%
Mar	4234	720	50	18340	340	1720	3:5	60%
Apr	0	0	0	0	0	0	0:0	n/a
May	180	180	180	180	180	180	0:1	0%
Jun	0	0	0	0	0	0	0:0	n/a
Jul	0	0	0	0	0	0	0:0	n/a
Aug	0	0	0	0	0	0	0:0	n/a
Sep	0	0	0	0	0	0	0:0	n/a
Oct	0	0	0	0	0	0	0:0	n/a
Nov	1280	1280	1280	1280	1280	1280	1:1	100%
Dec	15800	15800	15800	15800	15800	15800	2:2	100%
<b>All Data</b>	<b>7025</b>	<b>1720</b>	<b>50</b>	<b>19300</b>	<b>720</b>	<b>15800</b>	<b>10:13</b>	<b>77%</b>

## H. Noble Gulch at Pacific Cove Entrance (S115)

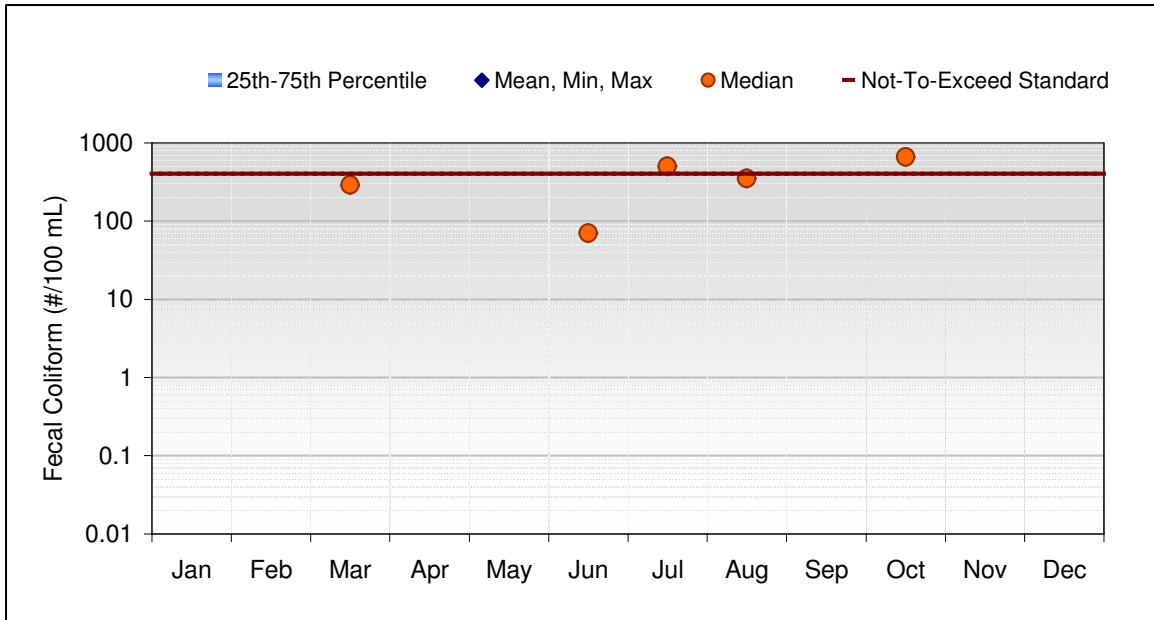
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### Geometric Mean Water Quality Objective (200 MPN/100 ml)

There was not enough water quality data collected at the Noble Gulch at Pacific Cove Entrance sampling station to calculate geometric means.



Maximum Water Quality Objective (400 MPN/100 ml)



**Figure 13. Noble Gulch at Pacific Cove Entrance Fecal Coliform (#/100 ml) and Water Contact Recreation Maximum Water Quality Objective (March 14, 2005 through October 24, 2005)**

**Table 13. Noble Gulch at Pacific Cove Entrance Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 3/14/2005 to 10/24/2005 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	0	0	0	0	0	0	0:0	n/a
Feb	0	0	0	0	0	0	0:0	n/a
Mar	290	290	290	290	290	290	0:1	0%
Apr	0	0	0	0	0	0	0:0	n/a
May	0	0	0	0	0	0	0:0	n/a
Jun	70	70	70	70	70	70	0:1	0%
Jul	500	500	500	500	500	500	1:1	100%
Aug	350	350	350	350	350	350	0:1	0%
Sep	0	0	0	0	0	0	0:0	n/a
Oct	660	660	660	660	660	660	1:1	100%
Nov	0	0	0	0	0	0	0:0	n/a
Dec	0	0	0	0	0	0	0:0	n/a
<b>All Data</b>	<b>374</b>	<b>350</b>	<b>70</b>	<b>660</b>	<b>290</b>	<b>500</b>	<b>2:5</b>	<b>40%</b>

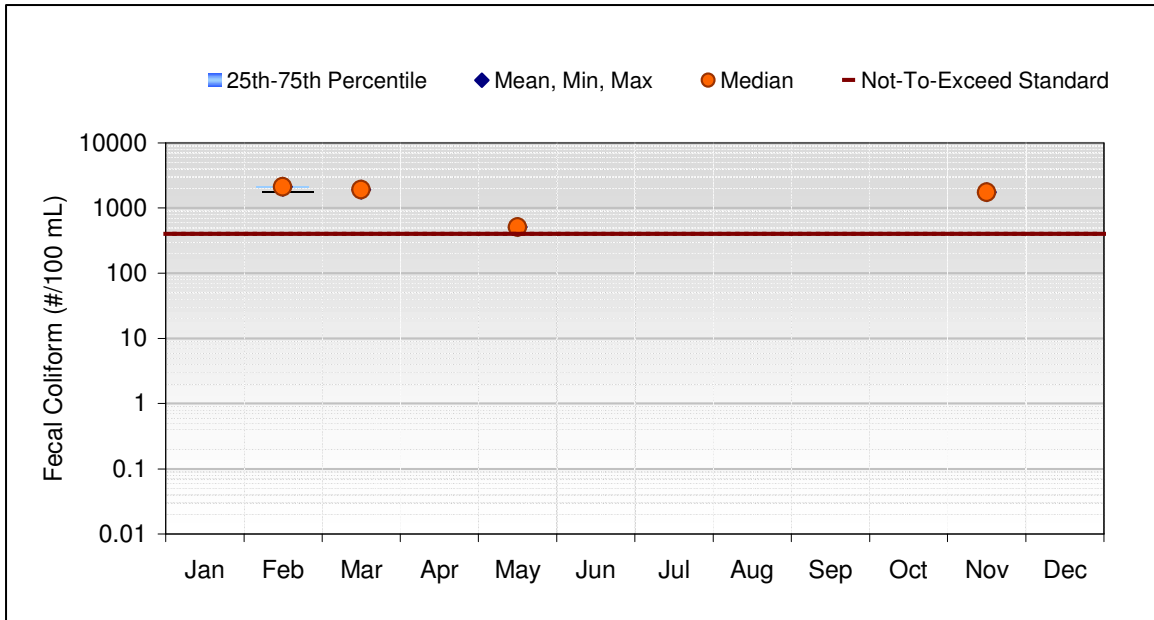
## I. Noble Gulch at Tunnel at Bay (S12)

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### Geometric Mean Water Quality Objective (200 MPN/100 ml)

There was not enough water quality data collected at the Noble Gulch at Tunnel at Bay sampling station to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 ml)



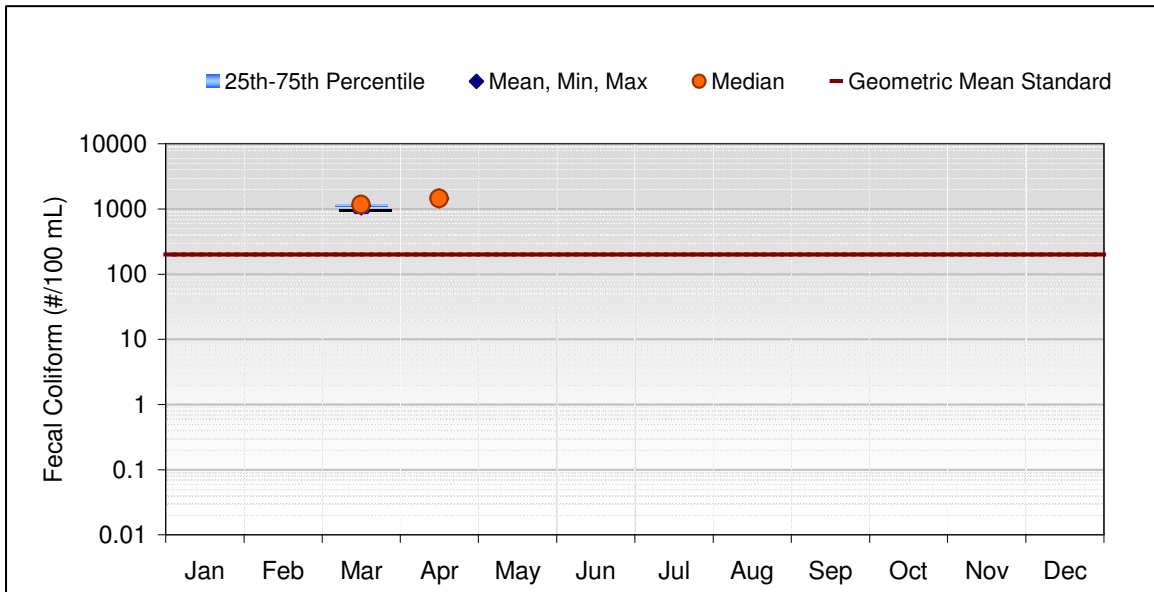
**Figure 15. Noble Gulch at Tunnel at Bay Fecal Coliform (#/100 ml) and Water Contact Recreation Maximum Water Quality Objective (February 17, 2005 through March 22, 2005)**

**Table 15. Noble Gulch at Tunnel at Bay Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 11/19/2003 to 3/1/2005 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	0	0	0	0	0	0	0:0	n/a
Feb	2110	2110	1980	2240	2045	2175	2:2	100%
Mar	1920	1920	1920	1920	1920	1920	1:1	100%
Apr	0	0	0	0	0	0	0:0	n/a
May	510	510	510	510	510	510	1:1	100%
Jun	0	0	0	0	0	0	0:0	n/a
Jul	0	0	0	0	0	0	0:0	n/a
Aug	0	0	0	0	0	0	0:0	n/a
Sep	0	0	0	0	0	0	0:0	n/a
Oct	0	0	0	0	0	0	0:0	n/a
Nov	1750	1750	1750	1750	1750	1750	1:1	100%
Dec	0	0	0	0	0	0	0:0	n/a
<b>All Data</b>	<b>1680</b>	<b>1920</b>	<b>510</b>	<b>2240</b>	<b>1750</b>	<b>1980</b>	<b>5:5</b>	<b>100%</b>

J. Noble Gulch at St Joe's Church (S125)

Geometric Mean Water Quality Objective (200 MPN/100 ml)

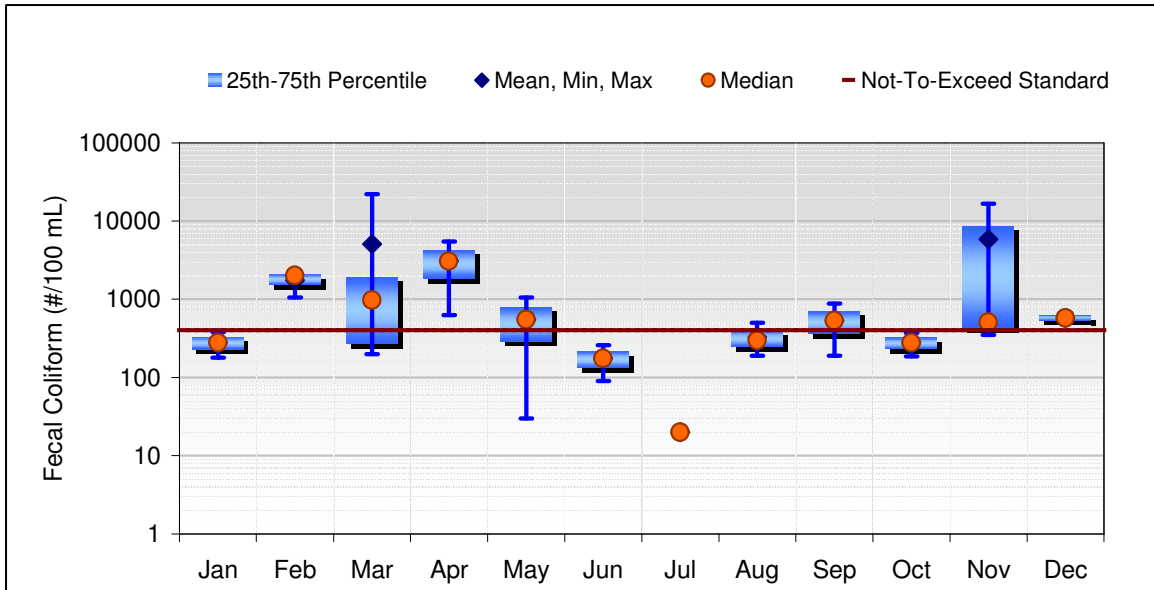


**Figure 16. Noble Gulch at St. Joe's Church Fecal Coliform (#/100 ml) and Water Contact Recreation Geometric Mean Water Quality Objective (November 19, 2003 through January 23, 2006)**

**Table 16. Noble Gulch at St. Joe's Church Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contract Recreation Geometric Mean Water Quality Objective**

Summary Statistics ( Data: 11/19/2003 to 1/23/2006 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	0	0	0	0	0	0	0:0	n/a
Feb	0	0	0	0	0	0	0:0	n/a
Mar	1121	1166	899	1251	1091	1196	4:4	100%
Apr	1450	1450	1450	1450	1450	1450	1:1	100%
May	0	0	0	0	0	0	0:0	n/a
Jun	0	0	0	0	0	0	0:0	n/a
Jul	0	0	0	0	0	0	0:0	n/a
Aug	0	0	0	0	0	0	0:0	n/a
Sep	0	0	0	0	0	0	0:0	n/a
Oct	0	0	0	0	0	0	0:0	n/a
Nov	0	0	0	0	0	0	0:0	n/a
Dec	0	0	0	0	0	0	0:0	n/a
<b>All Data</b>	<b>1187</b>	<b>1177</b>	<b>899</b>	<b>1450</b>	<b>1155</b>	<b>1251</b>	<b>5:5</b>	<b>100%</b>

Maximum Water Quality Objective (400 MPN/100 ml)



**Figure 17. Noble Gulch at St. Joe’s Church Fecal Coliform (#/100 ml) and Water Contact Recreation Maximum Water Quality Objective (November 19, 2003 through January 23, 2006)**

**Table 17. Noble Gulch at St. Joe’s Church Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 11/19/2003 to 1/23/2006 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	280	280	180	380	230	330	0:2	0%
Feb	1750	2020	1050	2180	1535	2100	3:3	100%
Mar	5086	980	200	22040	270	1940	3:5	60%
Apr	3063	3063	625	5500	1844	4281	2:2	100%
May	543	550	30	1050	290	800	2:3	67%
Jun	175	175	90	260	133	218	0:2	0%
Jul	20	20	20	20	20	20	0:1	0%
Aug	330	300	190	500	245	400	1:3	33%
Sep	535	535	190	880	363	708	1:2	50%
Oct	278	278	185	370	231	324	0:2	0%
Nov	5860	510	350	16720	430	8615	2:3	67%
Dec	580	580	500	660	540	620	2:2	100%
<b>All Data</b>	<b>2024</b>	<b>500</b>	<b>20</b>	<b>22040</b>	<b>215</b>	<b>1033</b>	<b>16:30</b>	<b>53%</b>

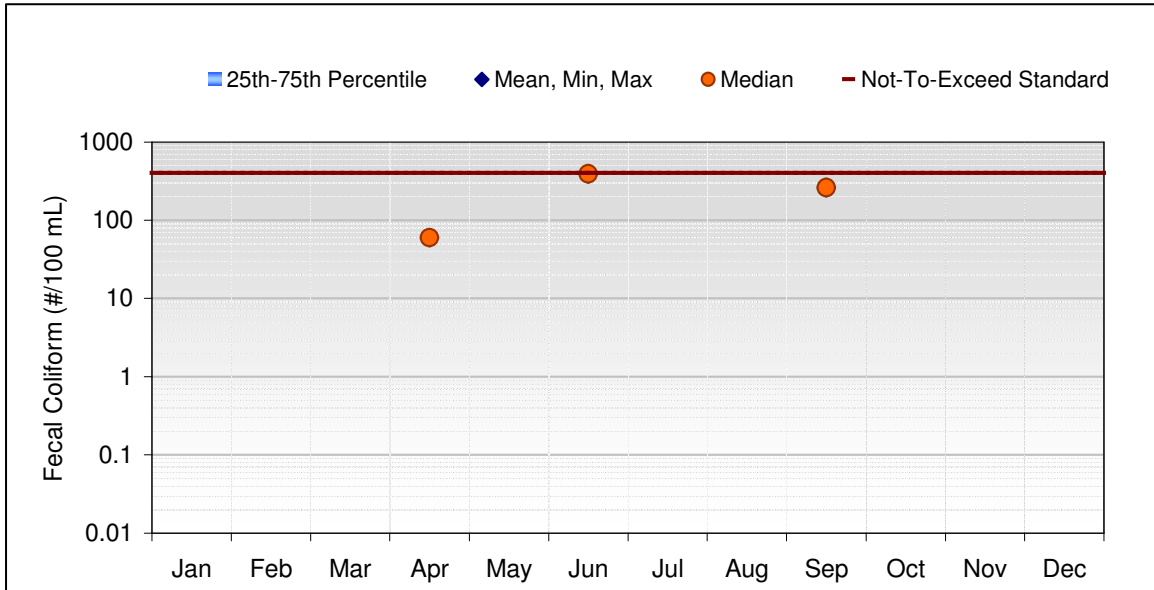
## K. Bates Creek at Soquel Creek (S3)

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### Geometric Mean Water Quality Objective (200 MPN/100 ml)

There was not enough water quality data collected at the Bates Creek at Soquel Creek sampling station to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 ml)



**Figure 18. Bates Creek at Soquel Creek Fecal Coliform (#/100 ml) and Water Contact Recreation Maximum Water Quality Objective (April 14, 2004 through September 22, 2005)**

**Table 18. Bates Creek at Soquel Creek Fecal Coliform (#/100 ml) Data Summary and Exceedance of Water Contact Recreation Maximum Objective**

Summary Statistics ( Data: 4/14/2004 to 9/22/2005 )								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	0	0	0	0	0	0	0:0	n/a
Feb	0	0	0	0	0	0	0:0	n/a
Mar	0	0	0	0	0	0	0:0	n/a
Apr	60	60	60	60	60	60	0:1	0%
May	0	0	0	0	0	0	0:0	n/a
Jun	390	390	390	390	390	390	0:1	0%
Jul	0	0	0	0	0	0	0:0	n/a
Aug	0	0	0	0	0	0	0:0	n/a
Sep	260	260	260	260	260	260	0:1	0%
Oct	0	0	0	0	0	0	0:0	n/a
Nov	0	0	0	0	0	0	0:0	n/a
Dec	0	0	0	0	0	0	0:0	n/a
<b>All Data</b>	<b>237</b>	<b>260</b>	<b>60</b>	<b>390</b>	<b>160</b>	<b>325</b>	<b>0:3</b>	<b>0%</b>