

Santa Cruz County Environmental Health Department
San Lorenzo River Estuary Data

San Lorenzo River Mouth @ Trestle (003)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Broadway Laurel S Bridge (006)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Soquel Av Bridge (009)	Fecal Coliform (#/100 mL)
08-Sep-04	190	14-Feb-05	90		
13-Sep-04	30	21-Feb-05	630		
20-Sep-04	160	28-Feb-05	2240		
21-Sep-04	176	07-Mar-05	150		
27-Sep-04	50	15-Mar-05	130		
04-Oct-04	84	21-Mar-05	500		
13-Oct-04	80	28-Mar-05	2020		
18-Oct-04	2000	04-Apr-05	720		
27-Oct-04	736	11-Apr-05	260		
01-Nov-04	270	18-Apr-05	262		
08-Nov-04	1630	25-Apr-05	150		
15-Nov-04	370	02-May-05	150		
22-Nov-04	30	09-May-05	470		
01-Dec-04	30	16-May-05	231		
06-Dec-04	20	23-May-05	130		
13-Dec-04	200	01-Jun-05	320		
21-Dec-04	40	06-Jun-05	370		
28-Dec-04	880	13-Jun-05	80		
05-Jan-05	170	23-Jun-05	270		
10-Jan-05	200	29-Jun-05	1250		
19-Jan-05	120	05-Jul-05	160		
24-Jan-05	290	11-Jul-05	50		
31-Jan-05	150	18-Jul-05	340		
07-Feb-05	90	25-Jul-05	70		
14-Feb-05	100	01-Aug-05	60		
21-Feb-05	2190	08-Aug-05	3430		
28-Feb-05	1610	15-Aug-05	250		
07-Mar-05	230	22-Aug-05	280		
15-Mar-05	60	30-Aug-05	4900		
21-Mar-05	490	06-Sep-05	552		
28-Mar-05	2180	15-Sep-05	440		
04-Apr-05	390	19-Sep-05	590		
11-Apr-05	110	26-Sep-05	180		
18-Apr-05	160	03-Oct-05	180		
25-Apr-05	60	12-Oct-05	100		
02-May-05	40	18-Oct-05	290		

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San Lorenzo River Mouth @ Ahresite (003)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Broadway/Laurel St Bridge (006)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Soquel Av Bridge (009)	Fecal Coliform (#/100 mL)
09-May-05	420	25-Oct-05	260		
16-May-05	128	01-Nov-05	150		
23-May-05	230	09-Nov-05	550		
01-Jun-05	340	16-Nov-05	240		
06-Jun-05	570	22-Nov-05	28		
13-Jun-05	80	30-Nov-05	850		
23-Jun-05	390	05-Dec-05	380		
29-Jun-05	420	14-Dec-05	190		
05-Jul-05	80	19-Dec-05	1800		
11-Jul-05	70	27-Dec-05	280		
18-Jul-05	130	03-Jan-06	280		
25-Jul-05	5	10-Jan-06	330		
01-Aug-05	30	17-Jan-06	180		
08-Aug-05	350	23-Jan-06	40		
15-Aug-05	100	01-Feb-06	196		
22-Aug-05	5	07-Feb-06	60		
30-Aug-05	990	15-Feb-06	105		
06-Sep-05	992	23-Feb-06	30		
15-Sep-05	70	01-Mar-06	460		
26-Sep-05	300	06-Mar-06	580		
03-Oct-05	220	13-Mar-06	745		
12-Oct-05	40	23-Mar-06	70		
18-Oct-05	70	29-Mar-06	4498		
19-Oct-05	250	03-Apr-06	700		
25-Oct-05	170	11-Apr-06	3490		
01-Nov-05	340	17-Apr-06	130		
09-Nov-05	1180	26-Apr-06	40		
16-Nov-05	70	22-May-06	1820		
22-Nov-05	60	07-Jun-06	430		
30-Nov-05	1430	20-Jun-06	480		
05-Dec-05	220	27-Jun-06	100		
14-Dec-05	190				
19-Dec-05	1770				
27-Dec-05	440				
03-Jan-06	20				
10-Jan-06	80				

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San Lorenzo River Mouth @ Fresno (003)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Broadway/Lanal St Bridge (006)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Soquel Av Bridge (009)	Fecal Coliform (#/100 mL)
17-Jan-06	40				
23-Jan-06	20				
01-Feb-06	92				
07-Feb-06	41				
15-Feb-06	5				
15-Feb-06	52				
23-Feb-06	25				
01-Mar-06	360				
06-Mar-06	640				
13-Mar-06	45				
23-Mar-06	35				
29-Mar-06	2380				
03-Apr-06	460				
11-Apr-06	2150				
17-Apr-06	70				
26-Apr-06	30				
22-May-06	680				
05-Jun-06	580				
20-Jun-06	360				
27-Jun-06	100				

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San Lorenzo River Mouth @ Presite (003)	Fecal Coliform (#/100 ml)	San Lorenzo River @ Broadway/Lafrel St Bridge (006)	Fecal Coliform (#/100 ml)	San Lorenzo River @ Soquel Av Bridge (002)	Fecal Coliform (#/100 ml)

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San Lorenzo River Mouth @ Trestle Surface	Fecal Coliform (#/100 ml)	SER @ Cut Bias Bridge	Fecal Coliform (#/100 ml)	SER @ Water St. Bridge	Fecal Coliform (#/100 ml)	SER above Water St. Bridge	Fecal Coliform (#/100 ml)
10-Oct-01	5730	06-Apr-05	680	16-Oct-01	252	16-Oct-01	284
30-Oct-01	6400						

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SLR @ Plyce St.	Fecal Coliform (#/100 ml)	SLR @ HW J Bridge	Fecal Coliform (#/100 ml)	SLR @ Tail St.	Fecal Coliform (#/100 ml)
16-Oct-01	208	15-Feb-00	500	01-Mar-00	130
		16-Oct-01	236	16-Oct-01	104

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San Lorenzo River @ Sycamore Grove (022)	Total Coliform (#/100 mL)	San Lorenzo River @ Brass (060)	Total Coliform (#/100 mL)	Lompico Creek @ Carroll Avenue (07528)	Total Coliform (#/100 mL)	San Lorenzo River @ Highlands Park (149)	Total Coliform (#/100 mL)
04-Jan-00	36	04-Jan-00	88	02-Feb-00	160	15-Feb-00	30
11-Jan-00	50	11-Jan-00	620	14-Mar-00	150	22-Jun-00	160
20-Jan-00	460	20-Jan-00	380	25-Apr-00	270	29-Jun-00	140
26-Jan-00	320	26-Jan-00	330	25-May-00	190	06-Jul-00	50
01-Feb-00	260	01-Feb-00	370	20-Jun-00	160	11-Jul-00	40
02-Feb-00	260	09-Feb-00	180	20-Jul-00	40	19-Jul-00	52
09-Feb-00	60	15-Feb-00	140	07-Aug-00	947	25-Jul-00	36
16-Feb-00	210	16-Feb-00	500	27-Sep-00	64	01-Aug-00	92
24-Feb-00	100	01-Mar-00	90	02-Oct-00	76	08-Aug-00	112
01-Mar-00	90	01-Mar-00	120	07-Nov-00	50	16-Aug-00	56
08-Mar-00	1650	08-Mar-00	1080	04-Dec-00	48	24-Aug-00	30
15-Mar-00	90	15-Mar-00	80	04-Jan-01	144	30-Aug-00	132
22-Mar-00	50	22-Mar-00	100	05-Feb-01	288	07-Sep-00	80
29-Mar-00	10	29-Mar-00	90	27-Mar-01	250	11-Sep-00	72
05-Apr-00	20	05-Apr-00	80	24-May-01	120	19-Sep-00	84
12-Apr-00	20	12-Apr-00	70	21-Jun-01	4180	27-Sep-00	176
19-Apr-00	110	19-Apr-00	200	12-Jul-01	144	17-May-01	412
25-Apr-00	60	26-Apr-00	152	24-Sep-01	100	23-May-01	36
26-Apr-00	88	03-May-00	170	17-Oct-01	200	30-May-01	64
03-May-00	60	11-May-00	120	28-Nov-01	70	04-Jun-01	100
11-May-00	120	17-May-00	290	19-Dec-01	510	11-Jun-01	36
17-May-00	90	24-May-00	230	9-Jan-02	20	18-Jun-01	170
24-May-00	180	01-Jun-00	240	13-Feb-02	12	25-Jun-01	160
25-May-00	180	08-Jun-00	520	21-Mar-02	20	02-Jul-01	340
01-Jun-00	100	14-Jun-00	190	23-Apr-02	1300	10-Jul-01	190
08-Jun-00	210	22-Jun-00	130	2-May-02	4	17-Jul-01	150
14-Jun-00	100	28-Jun-00	100	4-Jun-02	160	23-Jul-01	50
20-Jun-00	4	06-Jul-00	60	30-Jul-02	40	31-Jul-01	360
22-Jun-00	20	11-Jul-00	40	22-Aug-02	52	06-Aug-01	230
28-Jun-00	50	19-Jul-00	68	25-Sep-02	930	14-Aug-01	140
06-Jul-00	30	25-Jul-00	56	8-Oct-02	600	20-Aug-01	100
11-Jul-00	36	01-Aug-00	184	18-Nov-02	90	28-Aug-01	70
19-Jul-00	16	08-Aug-00	92	18-Dec-02	120	05-Sep-01	140
20-Jul-00	2	24-Aug-00	70	15-Jan-03	40	10-Sep-01	380
25-Jul-00	64	31-Aug-00	300	11-Feb-03	90	11-Sep-01	270
01-Aug-00	44	07-Sep-00	64	19-Mar-03	100	12-Sep-01	380
09-Aug-00	76	11-Sep-00	60	10-Apr-03	80	13-Sep-01	170
16-Aug-00	24	27-Sep-00	96	29-May-03	148	14-Sep-01	140
24-Aug-00	20	03-Oct-00	108	26-Jun-03	540	17-Sep-01	40
30-Aug-00	64	12-Oct-00	90	15-Jul-03	240	25-Sep-01	230
07-Sep-00	32	17-Oct-00	72	28-Aug-03	564	28-May-02	50
11-Sep-00	40	24-Oct-00	20	24-Sep-03	260	4-Jun-02	52
17-Sep-00	92	01-Nov-00	160	10-Oct-03	388	10-Jun-02	76
28-Sep-00	30	06-Nov-00	220	13-Nov-03	50	19-Jun-02	44
03-Oct-00	22	14-Nov-00	212	17-Dec-03	60	27-Jun-02	28
05-Oct-00	8	20-Nov-00	10	6-Jan-04	40	1-Jul-02	72
12-Oct-00	20	28-Nov-00	20	06-Jan-04	40	8-Jul-02	70
17-Oct-00	40	04-Dec-00	44	11-Feb-04	50	15-Jul-02	70
24-Oct-00	50	11-Dec-00	48	02-Mar-04	270	22-Jul-02	68
01-Nov-00	130	20-Dec-00	4	05-Apr-04	104	29-Jul-02	280

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San Lorenzo River @ Steamboat Grove (022)	Fecal Coliform (#/100ml)	San Lorenzo River @ Big Trees (060)	Fecal Coliform (#/100ml)	Complco Creek @ Carroll Avenue (07528)	Fecal Coliform (#/100ml)	San Lorenzo River @ Highlands Park (149)	Fecal Coliform (#/100ml)
08-Nov-00	40	26-Dec-00	20	11-May-04	60	1-Aug-02	20
14-Nov-00	2	04-Jan-01	12	24-Jun-04	20	5-Aug-02	176
20-Nov-00	10	09-Jan-01	220	14-Jul-04	250	12-Aug-02	156
28-Nov-00	310	16-Jan-01	104	12-Aug-04	276	19-Aug-02	108
06-Dec-00	4	22-Jan-01	24	08-Sep-04	910	26-Aug-02	168
11-Dec-00	12	29-Jan-01	60	04-Nov-04	55	3-Sep-02	210
19-Dec-00	2	05-Feb-01	48	20-Jan-05	185	10-Sep-02	32
26-Dec-00	8	14-Feb-01	134	09-Feb-05	380	15-Sep-02	84
04-Jan-01	12	21-Feb-01	152	10-Mar-05	50	25-Sep-02	52
09-Jan-01	472	27-Feb-01	100	20-Apr-05	70	13-May-03	100
16-Jan-01	36	07-Mar-01	5	04-May-05	290	27-May-03	80
22-Jan-01	12	12-Mar-01	70	15-Jun-05	30	5-Jun-03	108
29-Jan-01	20	19-Mar-01	130	14-Jul-05	90	11-Jun-03	108
05-Feb-01	12	26-Mar-01	600	02-Aug-05	240	18-Jun-03	120
15-Feb-01	146	02-Apr-01	230	19-Sep-05	48	24-Jun-03	100
21-Feb-01	340	09-Apr-01	320	13-Oct-05	600	30-Jun-03	176
26-Feb-01	110	16-Apr-01	110	09-Nov-05	200	8-Jul-03	60
07-Mar-01	210	24-Apr-01	520	14-Dec-05	50	15-Jul-03	112
12-Mar-01	100	30-Apr-01	180	12-Jan-06	455	22-Jul-03	180
19-Mar-01	110	07-May-01	60			28-Jul-03	164
26-Mar-01	380	14-May-01	200			5-Aug-03	204
29-Mar-01	50	21-May-01	250			12-Aug-03	140
02-Apr-01	80	29-May-01	100			20-Aug-03	208
09-Apr-01	100	06-Jun-01	20			25-Aug-03	304
16-Apr-01	20	11-Jun-01	30			4-Sep-03	276
24-Apr-01	60	18-Jun-01	50			15-Sep-03	20
30-Apr-01	110	25-Jun-01	60			26-May-04	40
07-May-01	10	02-Jul-01	340			02-Jun-04	116
14-May-01	60	09-Jul-01	240			09-Jun-04	40
21-May-01	130	16-Jul-01	130			15-Jun-04	85
23-May-01	20	23-Jul-01	90			21-Jun-04	60
29-May-01	30	31-Jul-01	70			29-Jun-04	150
06-Jun-01	40	06-Aug-01	140			08-Jul-04	240
11-Jun-01	32	14-Aug-01	70			12-Jul-04	440
18-Jun-01	50	20-Aug-01	150			19-Jul-04	196
20-Jun-01	8	28-Aug-01	100			28-Jul-04	160
25-Jun-01	20	05-Sep-01	120			04-Aug-04	110
02-Jul-01	48	10-Sep-01	244			09-Aug-04	148
09-Jul-01	20	17-Sep-01	40			16-Aug-04	232
16-Jul-01	112	24-Sep-01	180			23-Aug-04	596
23-Jul-01	70	01-Oct-01	190			30-Aug-04	128
31-Jul-01	20	10-Oct-01	120			08-Sep-04	308
07-Aug-01	120	15-Oct-01	150			13-Sep-04	604
14-Aug-01	88	22-Oct-01	560			20-Sep-04	612

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San Lorenzo River @ Sycamore Grove (022)	Feet Coliform (#/100 mL)	San Lorenzo River @ Big Trees (060)	Feet Coliform (#/100 mL)	Compipe Creek @ Canal Avenue (07523)	Feet Coliform (#/100 mL)	San Lorenzo River @ Highland Park (149)	Feet Coliform (#/100 mL)
20-Aug-01	90	25-Oct-01	450			23-Sep-04	60
28-Aug-01	70	29-Oct-01	190			27-Sep-04	176
05-Sep-01	60	5-Nov-01	310			01-Jun-05	180
10-Sep-01	96	15-Nov-01	1480			06-Jun-05	156
17-Sep-01	30	19-Nov-01	370			13-Jun-05	188
24-Sep-01	36	26-Nov-01	530			23-Jun-05	10
27-Sep-01	8	3-Dec-01	360			29-Jun-05	120
01-Oct-01	40	10-Dec-01	230			05-Jul-05	152
10-Oct-01	52	17-Dec-01	1560			11-Jul-05	156
15-Oct-01	40	26-Dec-01	34			18-Jul-05	312
22-Oct-01	28	3-Jan-02	130			25-Jul-05	112
29-Oct-01	110	7-Jan-02	70			01-Aug-05	184
5-Nov-01	64	14-Jan-02	100			08-Aug-05	140
15-Nov-01	730	22-Jan-02	30			15-Aug-05	184
19-Nov-01	120	28-Jan-02	120			22-Aug-05	228
26-Nov-01	480	4-Feb-02	5			31-Aug-05	180
29-Nov-01	5000	11-Feb-02	40			06-Sep-05	235
3-Dec-01	500	19-Feb-02	190				
10-Dec-01	180	25-Feb-02	90				
17-Dec-01	270	5-Mar-02	60				
19-Dec-01	70	11-Mar-02	70				
26-Dec-01	76	18-Mar-02	300				
3-Jan-02	150	25-Mar-02	70				
7-Jan-02	150	3-Apr-02	100				
9-Jan-02	50	8-Apr-02	100				
14-Jan-02	50	15-Apr-02	80				
22-Jan-02	40	24-Apr-02	32				
28-Jan-02	30	29-Apr-02	190				
4-Feb-02	5	7-May-02	10				
11-Feb-02	30	13-May-02	80				
13-Feb-02	4	20-May-02	108				
19-Feb-02	160	28-May-02	100				
25-Feb-02	5	3-Jun-02	120				
5-Mar-02	20	10-Jun-02	56				
11-Mar-02	110	18-Jun-02	100				
18-Mar-02	210	26-Jun-02	40				
19-Mar-02	10	2-Jul-02	124				
25-Mar-02	50	9-Jul-02	48				
3-Apr-02	20	16-Jul-02	128				
8-Apr-02	50	23-Jul-02	84				
15-Apr-02	60	30-Jul-02	100				

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San Lorenzo River @ Sycamore Grove (022)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Big Trees (060)	Fecal Coliform (#/100 mL)	Lompico Creek @ Carol Avenue (07528)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Highlands Park (149)	Fecal Coliform (#/100 mL)
18-Apr-02	32	6-Aug-02	52				
24-Apr-02	8	13-Aug-02	132				
29-Apr-02	150	20-Aug-02	176				
7-May-02	10	27-Aug-02	110				
13-May-02	40	4-Sep-02	80				
20-May-02	108	10-Sep-02	60				
28-May-02	40	19-Sep-02	76				
3-Jun-02	32	25-Sep-02	128				
10-Jun-02	34	1-Oct-02	40				
18-Jun-02	80	7-Oct-02	112				
26-Jun-02	60	16-Oct-02	130				
2-Jul-02	36	23-Oct-02	112				
9-Jul-02	56	30-Oct-02	90				
16-Jul-02	40	4-Nov-02	50				
23-Jul-02	40	12-Nov-02	210				
30-Jul-02	5	18-Nov-02	100				
31-Jul-02	10	25-Nov-02	276				
6-Aug-02	32	3-Dec-02	130				
13-Aug-02	24	10-Dec-02	410				
20-Aug-02	28	17-Dec-02	190				
27-Aug-02	10	23-Dec-02	180				
29-Aug-02	50	30-Dec-02	140				
4-Sep-02	60	7-Jan-03	170				
10-Sep-02	28	13-Jan-03	232				
19-Sep-02	20	21-Jan-03	120				
25-Sep-02	16	28-Jan-03	40				
25-Sep-02	16	4-Feb-03	90				
1-Oct-02	20	18-Feb-03	68				
7-Oct-02	44	27-Feb-03	100				
8-Oct-02	20	5-Mar-03	210				
16-Oct-02	30	13-Mar-03	90				
23-Oct-02	64	17-Mar-03	330				
30-Oct-02	70	25-Mar-03	60				
4-Nov-02	50	1-Apr-03	296				
12-Nov-02	280	8-Apr-03	130				
14-Nov-02	150	15-Apr-03	260				
18-Nov-02	150	23-Apr-03	200				
25-Nov-02	16	28-Apr-03	310				
3-Dec-02	80	5-May-03	168				
10-Dec-02	120	13-May-03	148				
17-Dec-02	160	20-May-03	70				

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San Lorenzo River @ Sycamore Grove (022)	Recal Coliform (#/100mL)	San Lorenzo River @ Biscuits (069)	Recal Coliform (#/100mL)	Lompico Creek @ Carroll Avenue (07528)	Recal Coliform (#/100mL)	San Lorenzo River @ Highlands Park (149)	Recal Coliform (#/100mL)
23-Dec-02	90	27-May-03	180				
30-Dec-02	90	3-Jun-03	110				
7-Jan-03	250	11-Jun-03	430				
13-Jan-03	136	18-Jun-03	140				
15-Jan-03	330	23-Jun-03	84				
21-Jan-03	96	1-Jul-03	90				
28-Jan-03	44	7-Jul-03	190				
4-Feb-03	130	14-Jul-03	104				
10-Feb-03	20	21-Jul-03	200				
11-Feb-03	10	29-Jul-03	112				
18-Feb-03	76	4-Aug-03	156				
27-Feb-03	160	11-Aug-03	156				
5-Mar-03	260	19-Aug-03	260				
13-Mar-03	60	26-Aug-03	480				
17-Mar-03	70	2-Sep-03	160				
19-Mar-03	200	8-Sep-03	200				
25-Mar-03	80	23-Sep-03	150				
1-Apr-03	96	29-Sep-03	400				
7-Apr-03	40	6-Oct-03	150				
8-Apr-03	40	14-Oct-03	450				
15-Apr-03	230	14-Oct-03	450				
23-Apr-03	130	20-Oct-03	150				
28-Apr-03	560	27-Oct-03	240				
5-May-03	80	4-Nov-03	440				
13-May-03	48	12-Nov-03	230				
20-May-03	20	17-Nov-03	90				
27-May-03	52	24-Nov-03	110				
29-May-03	96	1-Dec-03	2770				
3-Jun-03	170	9-Dec-03	100				
11-Jun-03	370	15-Dec-03	470				
18-Jun-03	170	22-Dec-03	250				
23-Jun-03	32	30-Dec-03	220				
30-Jun-03	16	5-Jan-04	90				
1-Jul-03	20	05-Jan-04	90				
7-Jul-03	5	12-Jan-04	80				
14-Jul-03	60	12-Jan-04	80				
15-Jul-03	120	20-Jan-04	50				
21-Jul-03	52	02-Feb-04	390				
29-Jul-03	32	09-Feb-04	110				
4-Aug-03	60	17-Feb-04	510				
11-Aug-03	52	23-Feb-04	90				

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San Lorenzo River @ Sycamore Grove (022)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Big Trees (060)	Fecal Coliform (#/100 mL)	Lompico Creek @ Canal Avenue (07528)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Highlands Park (049)	Fecal Coliform (#/100 mL)
19-Aug-03	52	01-Mar-04	150				
26-Aug-03	150	08-Mar-04	40				
2-Sep-03	170	15-Mar-04	110				
8-Sep-03	160	22-Mar-04	260				
15-Sep-03	200	29-Mar-04	110				
23-Sep-03	160	06-Apr-04	30				
23-Sep-03	220	12-Apr-04	60				
29-Sep-03	60	19-Apr-04	40				
6-Oct-03	100	26-Apr-04	70				
10-Oct-03	96	03-May-04	30				
14-Oct-03	70	10-May-04	100				
20-Oct-03	110	17-May-04	140				
27-Oct-03	30	26-May-04	90				
4-Nov-03	180	01-Jun-04	120				
12-Nov-03	40	09-Jun-04	100				
17-Nov-03	120	15-Jun-04	90				
24-Nov-03	10	21-Jun-04	108				
1-Dec-03	1430	29-Jun-04	120				
8-Dec-03	230	07-Jul-04	210				
9-Dec-03	90	12-Jul-04	88				
15-Dec-03	610	19-Jul-04	304				
22-Dec-03	220	20-Jul-04	200				
30-Dec-03	250	29-Jul-04	152				
5-Jan-04	150	04-Aug-04	150				
05-Jan-04	150	04-Aug-04	184				
7-Jan-04	40	09-Aug-04	372				
07-Jan-04	40	16-Aug-04	404				
12-Jan-04	110	23-Aug-04	120				
12-Jan-04	110	30-Aug-04	164				
20-Jan-04	80	08-Sep-04	156				
26-Jan-04	50	13-Sep-04	188				
02-Feb-04	160	20-Sep-04	268				
09-Feb-04	50	23-Sep-04	140				
11-Feb-04	100	27-Sep-04	132				
17-Feb-04	500	04-Oct-04	156				
23-Feb-04	50	13-Oct-04	212				
01-Mar-04	100	18-Oct-04	2000				
02-Mar-04	80	27-Oct-04	3492				
08-Mar-04	20	01-Nov-04	192				
15-Mar-04	20	08-Nov-04	228				
22-Mar-04	190	15-Nov-04	232				

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River @ Sycamore Grove (022)	Fecal Coliform (#/100mL)	San Lorenzo River @ Big Trees (060)	Fecal Coliform (#/100mL)	Lompico Creek @ Carol Avenue (07528)	Fecal Coliform (#/100mL)	San Lorenzo River @ Highlands Park (149)	Fecal Coliform (#/100mL)
29-Mar-04	60	22-Nov-04	156				
06-Apr-04	10	01-Dec-04	156				
12-Apr-04	40	06-Dec-04	24				
19-Apr-04	130	08-Dec-04	280				
26-Apr-04	30	13-Dec-04	164				
03-May-04	70	21-Dec-04	68				
10-May-04	20	28-Dec-04	380				
10-May-04	30	05-Jan-05	88				
17-May-04	110	10-Jan-05	80				
26-May-04	40	19-Jan-05	48				
01-Jun-04	80	24-Jan-05	64				
09-Jun-04	50	31-Jan-05	68				
14-Jun-04	48	07-Feb-05	130				
15-Jun-04	50	14-Feb-05	48				
21-Jun-04	24	21-Feb-05	500				
29-Jun-04	40	28-Feb-05	1530				
07-Jul-04	40	07-Mar-05	72				
12-Jul-04	24	15-Mar-05	84				
14-Jul-04	30	21-Mar-05	210				
19-Jul-04	72	23-Mar-05	120				
20-Jul-04	44	28-Mar-05	1130				
29-Jul-04	16	04-Apr-05	510				
04-Aug-04	72	11-Apr-05	112				
04-Aug-04	80	18-Apr-05	132				
09-Aug-04	40	25-Apr-05	80				
11-Aug-04	40	02-May-05	120				
16-Aug-04	36	09-May-05	640				
23-Aug-04	36	16-May-05	184				
30-Aug-04	40	23-May-05	104				
02-Sep-04	30	01-Jun-05	172				
08-Sep-04	124	06-Jun-05	196				
13-Sep-04	20	13-Jun-05	220				
20-Sep-04	76	29-Jun-05	115				
27-Sep-04	44	05-Jul-05	140				
04-Oct-04	40	11-Jul-05	254				
06-Oct-04	60	13-Jul-05	44				
13-Oct-04	36	18-Jul-05	464				
18-Oct-04	2000	25-Jul-05	160				
27-Oct-04	1520	01-Aug-05	96				
01-Nov-04	100	08-Aug-05	140				
03-Nov-04	75	15-Aug-05	180				

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River @ Sycamore Grove (022)	Fecal Coliform (#/100 ml)	San Lorenzo River @ Big Trees (060)	Fecal Coliform (#/100 ml)	Lompico Creek @ Canal Avenue (07528)	Fecal Coliform (#/100 ml)	San Lorenzo River @ Highlands Park (149)	Fecal Coliform (#/100 ml)
08-Nov-04	32	22-Aug-05	156				
15-Nov-04	72	30-Aug-05	180				
22-Nov-04	32	06-Sep-05	84				
01-Dec-04	32	15-Sep-05	104				
06-Dec-04	20	19-Sep-05	76				
08-Dec-04	150	27-Sep-05	110				
13-Dec-04	68	03-Oct-05	100				
21-Dec-04	48	12-Oct-05	100				
28-Dec-04	290	18-Oct-05	190				
05-Jan-05	88	25-Oct-05	128				
10-Jan-05	64	01-Nov-05	164				
19-Jan-05	36	09-Nov-05	165				
20-Jan-05	55	16-Nov-05	170				
24-Jan-05	60	22-Nov-05	72				
31-Jan-05	76	30-Nov-05	490				
03-Feb-05	40	05-Dec-05	180				
07-Feb-05	80	14-Dec-05	110				
14-Feb-05	36	19-Dec-05	1230				
21-Feb-05	800	27-Dec-05	200				
28-Feb-05	2140	03-Jan-06	120				
07-Mar-05	84	10-Jan-06	128				
09-Mar-05	112	17-Jan-06	80				
15-Mar-05	72	23-Jan-06	40				
21-Mar-05	260						
28-Mar-05	2070						
04-Apr-05	470						
11-Apr-05	76						
18-Apr-05	100						
25-Apr-05	84						
02-May-05	68						
04-May-05	120						
09-May-05	550						
16-May-05	128						
23-May-05	60						
01-Jun-05	148						
06-Jun-05	64						
13-Jun-05	128						
15-Jun-05	35						
23-Jun-05	60						
29-Jun-05	95						
05-Jul-05	36						

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River @ Sycamore Grove (022)	Fecal Coliform (#/100 ml)	San Lorenzo River @ Big Trees (060)	Fecal Coliform (#/100 ml)	Bompico Creek @ Carol Avenue (07528)	Fecal Coliform (#/100 ml)	San Lorenzo River @ Highlands Park (149)	Fecal Coliform (#/100 ml)
11-Jul-05	72						
14-Jul-05	40						
18-Jul-05	156						
25-Jul-05	44						
01-Aug-05	44						
08-Aug-05	24						
15-Aug-05	32						
17-Aug-05	44						
22-Aug-05	48						
30-Aug-05	20						
06-Sep-05	48						
15-Sep-05	24						
19-Sep-05	8						
20-Sep-05	36						
27-Sep-05	40						
03-Oct-05	4						
11-Oct-05	48						
12-Oct-05	36						
18-Oct-05	15						
25-Oct-05	96						
01-Nov-05	16						
09-Nov-05	65						
15-Nov-05	50						
22-Nov-05	16						
30-Nov-05	315						
05-Dec-05	116						
09-Dec-05	40						
14-Dec-05	35						
19-Dec-05	1280						
27-Dec-05	220						
03-Jan-06	100						
10-Jan-06	76						
17-Jan-06	80						
23-Jan-06	28						
25-Jan-06	92						

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River Above Love (80)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Pacific Ave. Brookdale (241)	Fecal Coliform (#/100 mL)	San Lorenzo River @ River Street (245)	Fecal Coliform (#/100 mL)	Two Barren @ San Lorenzo River (290)	Fecal Coliform (#/100 mL)	SlR @ Two Barren (300)	Fecal Coliform (#/100 mL)
04-Jan-00	132	11-Jul-00	48	04-Jan-00	136	29-Nov-01	1270	06-Nov-00	60
11-Jan-00	270	19-Jul-00	40	11-Jan-00	220	19-Dec-01	800	04-Dec-00	12
20-Jan-00	460	25-Jul-00	20	20-Jan-00	260	9-Jan-02	50	04-Jan-01	12
26-Jan-00	160	01-Aug-00	252	26-Jan-00	370	13-Feb-02	32	07-Feb-01	136
01-Feb-00	220	08-Aug-00	40	01-Feb-00	410	20-Mar-02	30	28-Mar-01	200
09-Feb-00	130	16-Aug-00	68	09-Feb-00	140	24-Apr-02	2	24-May-01	60
15-Feb-00	40	24-Aug-00	40	15-Feb-00	130	6-Jun-02	370	21-Jun-01	172
16-Feb-00	810	30-Aug-00	108	16-Feb-00	930	30-Jul-02	80	19-Jul-01	80
24-Feb-00	20	11-Sep-00	96	24-Feb-00	140	29-Aug-02	40	24-Sep-01	76
01-Mar-00	150	20-Sep-00	264	01-Mar-00	130	26-Sep-02	350	29-Nov-01	1410
08-Mar-00	400	27-Sep-00	104	08-Mar-00	270	8-Oct-02	80	19-Dec-01	130
15-Mar-00	40	17-May-01	228	15-Mar-00	70	18-Nov-02	140	09-Jan-02	70
22-Mar-00	30	23-May-01	156	22-Mar-00	140	23-Dec-02	20	13-Feb-02	40
29-Mar-00	140	30-May-01	232	29-Mar-00	80	16-Jan-03	50	20-Mar-02	50
05-Apr-00	110	04-Jun-01	140	05-Apr-00	30	12-Feb-03	600	24-Apr-02	52
12-Apr-00	350	11-Jun-01	44	12-Apr-00	40	20-Mar-03	90	29-Aug-02	130
19-Apr-00	120	19-Jun-01	130	19-Apr-00	80	1-May-03	100	26-Sep-02	190
26-Apr-00	560	25-Jun-01	90	26-Apr-00	92	29-May-03	60	08-Oct-02	610
03-May-00	150	02-Jul-01	100	03-May-00	110	27-Jun-03	44	18-Nov-02	180
11-May-00	110	09-Jul-01	190	11-May-00	100	15-Jul-03	150	18-Dec-02	110
17-May-00	820	17-Jul-01	40	17-May-00	200	9-Sep-03	760	16-Jan-03	70
24-May-00	190	23-Jul-01	20	24-May-00	190	24-Sep-03	570	12-Feb-03	300
01-Jun-00	60	30-Jul-01	20	01-Jun-00	200	24-Sep-03	570	20-Mar-03	300
08-Jun-00	510	06-Aug-01	120	08-Jun-00	470	15-Oct-03	990	07-May-03	120
14-Jun-00	120	14-Aug-01	70	14-Jun-00	160	15-Oct-03	990	29-May-03	64
22-Jun-00	130	20-Aug-01	60	28-Jun-00	170	13-Nov-03	470	27-Jun-03	176
28-Jun-00	140	28-Aug-01	60	06-Jul-00	40	13-Nov-03	470	15-Jul-03	370
06-Jul-00	20	05-Sep-01	140	11-Jul-00	68	9-Dec-03	690	09-Sep-03	290
11-Jul-00	92	13-Sep-01	30	19-Jul-00	116	09-Dec-03	690	24-Sep-03	410
19-Jul-00	104	17-Sep-01	50	25-Jul-00	68	5-Jan-04	80	16-Oct-03	440
25-Jul-00	28	25-Sep-01	100	01-Aug-00	160	05-Jan-04	80	13-Nov-03	160
01-Aug-00	112	28-May-02	400	08-Aug-00	108	10-Feb-04	80	09-Dec-03	100
08-Aug-00	160	4-Jun-02	36	16-Aug-00	108	03-Mar-04	120	05-Jan-04	20
16-Aug-00	96	10-Jun-02	140	24-Aug-00	80	06-Apr-04	100	10-Feb-04	170
30-Aug-00	48	19-Jun-02	30	30-Aug-00	132	10-May-04	280	03-Mar-04	50
07-Sep-00	124	27-Jun-02	44	11-Sep-00	132	14-Jun-04	80	06-Apr-04	144
11-Sep-00	120	1-Jul-02	60	26-Sep-00	48	14-Jul-04	290	10-May-04	260
03-Oct-00	56	8-Jul-02	80	03-Oct-00	148	11-Aug-04	496	10-Jun-04	340
12-Oct-00	70	15-Jul-02	50	12-Oct-00	290	08-Sep-04	95	14-Jul-04	380
17-Oct-00	20	22-Jul-02	36	17-Oct-00	68	08-Oct-04	50	11-Aug-04	216
24-Oct-00	60	29-Jul-02	20	24-Oct-00	130	14-Dec-04	110	08-Sep-04	150
01-Nov-00	100	5-Aug-02	80	01-Nov-00	140	20-Jan-05	50	08-Oct-04	350
06-Nov-00	80	12-Aug-02	112	06-Nov-00	150	03-Feb-05	20	04-Nov-04	380
14-Nov-00	48	19-Aug-02	60	14-Nov-00	256	09-Mar-05	60	14-Dec-04	180
20-Nov-00	20	26-Aug-02	244	20-Nov-00	20	14-Apr-05	30	20-Jan-05	20
28-Nov-00	28	27-Aug-02	280	28-Nov-00	28	12-May-05	320	03-Feb-05	92
05-Dec-00	72	3-Sep-02	40	05-Dec-00	24	16-Jun-05	60	09-Mar-05	220
11-Dec-00	120	10-Sep-02	104	11-Dec-00	44	20-Jul-05	60	14-Apr-05	55
20-Dec-00	12	19-Sep-02	112	20-Dec-00	36	03-Aug-05	252	12-May-05	240
26-Dec-00	44	24-Sep-02	88	26-Dec-00	20	19-Sep-05	680	16-Jun-05	215

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River Above Love Cr. (180)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Pacific Ave Brookdale (241)	Fecal Coliform (#/100 mL)	San Lorenzo River @ River Street (245)	Fecal Coliform (#/100 mL)	Two Bar Cr. @ San Lorenzo River (290)	Fecal Coliform (#/100 mL)	SLR @ Two Bar Cr. (300)	Fecal Coliform (#/100 mL)
04-Jan-01	44	13-May-03	272	04-Jan-01	12	11-Oct-05	960	20-Jul-05	730
09-Jan-01	252	5-Jun-03	184	09-Jan-01	372	01-Nov-05	2350	21-Jul-05	460
16-Jan-01	72	11-Jun-03	132	16-Jan-01	64	09-Dec-05	230	03-Aug-05	740
22-Jan-01	8	18-Jun-03	152	22-Jan-01	28	12-Jan-06	140	19-Sep-05	488
29-Jan-01	352	24-Jun-03	160	29-Jan-01	48			12-Oct-05	180
06-Feb-01	32	30-Jun-03	164	14-Feb-01	74			01-Nov-05	290
14-Feb-01	130	8-Jul-03	190	21-Feb-01	480			03-Dec-05	65
21-Feb-01	716	15-Jul-03	260	26-Feb-01	150			12-Jan-06	60
26-Feb-01	110	22-Jul-03	260	07-Mar-01	60				
07-Mar-01	40	28-Jul-03	152	12-Mar-01	80				
12-Mar-01	10	5-Aug-03	168	19-Mar-01	40				
19-Mar-01	90	12-Aug-03	48	26-Mar-01	150				
26-Mar-01	50	20-Aug-03	180	02-Apr-01	170				
02-Apr-01	420	25-Aug-03	144	09-Apr-01	200				
09-Apr-01	70	4-Sep-03	132	16-Apr-01	40				
16-Apr-01	40	15-Sep-03	230	24-Apr-01	100				
24-Apr-01	140	26-May-04	80	30-Apr-01	160				
30-Apr-01	130	02-Jun-04	76	07-May-01	160				
07-May-01	120	09-Jun-04	160	14-May-01	520				
14-May-01	160	15-Jun-04	1390	21-May-01	380				
21-May-01	190	16-Jun-04	390	29-May-01	250				
29-May-01	100	21-Jun-04	184	06-Jun-01	290				
06-Jun-01	60	29-Jun-04	170	11-Jun-01	80				
11-Jun-01	60	08-Jul-04	120	18-Jun-01	350				
18-Jun-01	160	12-Jul-04	52	25-Jun-01	460				
25-Jun-01	50	19-Jul-04	132	02-Jul-01	470				
02-Jul-01	210	28-Jul-04	92	09-Jul-01	190				
09-Jul-01	200	04-Aug-04	100	12-Jul-01	80				
16-Jul-01	20	09-Aug-04	80	16-Jul-01	120				
23-Jul-01	70	16-Aug-04	112	23-Jul-01	60				
31-Jul-01	100	23-Aug-04	348	31-Jul-01	130				
06-Aug-01	110	08-Sep-04	92	06-Aug-01	120				
14-Aug-01	50	13-Sep-04	64	08-Aug-01	170				
20-Aug-01	130	20-Sep-04	380	14-Aug-01	120				
28-Aug-01	50	27-Sep-04	76	20-Aug-01	110				
05-Sep-01	70	01-Jun-05	125	28-Aug-01	120				
10-Sep-01	64	06-Jun-05	168	05-Sep-01	40				
11-Sep-01	110	13-Jun-05	172	10-Sep-01	68				
12-Sep-01	220	23-Jun-05	90	18-Sep-01	30				
13-Sep-01	80	29-Jun-05	140	24-Sep-01	150				
14-Sep-01	70	05-Jul-05	260	01-Oct-01	180				
17-Sep-01	40	11-Jul-05	316	10-Oct-01	730				
24-Sep-01	90	13-Jul-05	148	15-Oct-01	200				
01-Oct-01	110	18-Jul-05	328	22-Oct-01	190				

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River Above Ilwaco Cr (180)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Pacific Ave. Brookdale (241)	Fecal Coliform (#/100 mL)	San Lorenzo River @ River Street (245)	Fecal Coliform (#/100 mL)	Two Bar Cr @ San Lorenzo River (290)	Fecal Coliform (#/100 mL)	SR @ Ilwaco Bar Cr (300)	Fecal Coliform (#/100 mL)
10-Oct-01	130	25-Jul-05	152	29-Oct-01	240				
15-Oct-01	180	01-Aug-05	164	5-Nov-01	70				
22-Oct-01	140	08-Aug-05	328	15-Nov-01	740				
29-Oct-01	60	15-Aug-05	124	19-Nov-01	340				
5-Nov-01	390	22-Aug-05	164	26-Nov-01	630				
15-Nov-01	1130	31-Aug-05	140	3-Dec-01	180				
19-Nov-01	170	06-Sep-05	185	10-Dec-01	260				
26-Nov-01	390			17-Dec-01	1680				
3-Dec-01	260			26-Dec-01	56				
10-Dec-01	220			3-Jan-02	200				
17-Dec-01	1150			7-Jan-02	110				
26-Dec-01	88			14-Jan-02	60				
3-Jan-02	160			24-Jan-02	60				
7-Jan-02	80			28-Jan-02	230				
14-Jan-02	160			4-Feb-02	10				
24-Jan-02	120			11-Feb-02	150				
28-Jan-02	170			19-Feb-02	340				
4-Feb-02	10			25-Feb-02	50				
11-Feb-02	20			5-Mar-02	100				
19-Feb-02	160			11-Mar-02	90				
25-Feb-02	10			18-Mar-02	200				
5-Mar-02	30			25-Mar-02	30				
11-Mar-02	80			3-Apr-02	30				
18-Mar-02	150			8-Apr-02	60				
25-Mar-02	30			15-Apr-02	5				
3-Apr-02	50			24-Apr-02	52				
8-Apr-02	560			29-Apr-02	170				
15-Apr-02	30			7-May-02	30				
24-Apr-02	32			13-May-02	120				
29-Apr-02	70			20-May-02	130				
7-May-02	20			28-May-02	190				
13-May-02	60			3-Jun-02	150				
20-May-02	160			10-Jun-02	100				
28-May-02	40			20-Jun-02	70				
3-Jun-02	52			26-Jun-02	70				
10-Jun-02	36			2-Jul-02	80				
20-Jun-02	210			9-Jul-02	148				
26-Jun-02	140			16-Jul-02	28				
2-Jul-02	84			23-Jul-02	52				
9-Jul-02	84			30-Jul-02	70				
16-Jul-02	108			6-Aug-02	28				

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River Above Love Cr. (180)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Pacific Ave. Brookdale (241)	Fecal Coliform (#/100 mL)	San Lorenzo River @ River Street (245)	Fecal Coliform (#/100 mL)	Two Bar Cr. @ San Lorenzo River (290)	Fecal Coliform (#/100 mL)	SLR @ Two Bar Cr. (300)	Fecal Coliform (#/100 mL)
23-Jul-02	44			13-Aug-02	76				
30-Jul-02	80			20-Aug-02	60				
6-Aug-02	100			27-Aug-02	50				
13-Aug-02	12			4-Sep-02	90				
20-Aug-02	36			10-Sep-02	40				
27-Aug-02	60			19-Sep-02	120				
4-Sep-02	90			24-Sep-02	64				
10-Sep-02	40			1-Oct-02	190				
19-Sep-02	140			7-Oct-02	164				
24-Sep-02	28			15-Oct-02	220				
2-Oct-02	300			23-Oct-02	120				
7-Oct-02	132			30-Oct-02	110				
16-Oct-02	60			4-Nov-02	170				
23-Oct-02	100			12-Nov-02	190				
30-Oct-02	130			18-Nov-02	140				
4-Nov-02	110			25-Nov-02	132				
12-Nov-02	70			3-Dec-02	110				
18-Nov-02	110			10-Dec-02	390				
25-Nov-02	452			17-Dec-02	250				
3-Dec-02	70			23-Dec-02	110				
10-Dec-02	190			30-Dec-02	50				
17-Dec-02	130			7-Jan-03	50				
23-Dec-02	100			13-Jan-03	84				
30-Dec-02	130			21-Jan-03	224				
5-Jan-03	30			28-Jan-03	88				
7-Jan-03	30			4-Feb-03	110				
13-Jan-03	124			10-Feb-03	52				
21-Jan-03	344			18-Feb-03	84				
28-Jan-03	172			27-Feb-03	210				
4-Feb-03	70			13-Mar-03	70				
18-Feb-03	64			17-Mar-03	140				
27-Feb-03	190			25-Mar-03	20				
5-Mar-03	90			1-Apr-03	148				
13-Mar-03	30			8-Apr-03	40				
17-Mar-03	120			15-Apr-03	240				
25-Mar-03	40			23-Apr-03	160				
25-Mar-03	64			28-Apr-03	280				
1-Apr-03	140			5-May-03	140				
8-Apr-03	20			13-May-03	100				
15-Apr-03	290			20-May-03	30				
23-Apr-03	180			27-May-03	160				

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San Lorenzo River Data

San Lorenzo River Above Iwo/Bur Cr (1&D)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Pacific Ave. Brookdale (241)	Fecal Coliform (#/100 mL)	San Lorenzo River @ River Street (245)	Fecal Coliform (#/100 mL)	Iwo/Bur Cr @ San Lorenzo River (290)	Fecal Coliform (#/100 mL)	SLR @ Iwo/Bur Cr (300)	Fecal Coliform (#/100 mL)
28-Apr-03	490			3-Jun-03	210				
5-May-03	140			11-Jun-03	230				
13-May-03	112			18-Jun-03	50				
20-May-03	60			23-Jun-03	132				
27-May-03	80			1-Jul-03	150				
3-Jun-03	80			7-Jul-03	80				
11-Jun-03	190			14-Jul-03	264				
18-Jun-03	60			21-Jul-03	304				
23-Jun-03	84			29-Jul-03	228				
1-Jul-03	110			4-Aug-03	328				
7-Jul-03	60			11-Aug-03	300				
14-Jul-03	32			19-Aug-03	304				
21-Jul-03	44			26-Aug-03	270				
29-Jul-03	56			2-Sep-03	420				
4-Aug-03	28			4-Sep-03	280				
11-Aug-03	60			8-Sep-03	160				
19-Aug-03	64			15-Sep-03	90				
26-Aug-03	100			23-Sep-03	260				
2-Sep-03	90			29-Sep-03	290				
8-Sep-03	110			6-Oct-03	80				
15-Sep-03	150			14-Oct-03	130				
23-Sep-03	190			20-Oct-03	40				
29-Sep-03	140			27-Oct-03	490				
6-Oct-03	120			4-Nov-03	310				
14-Oct-03	40			12-Nov-03	260				
20-Oct-03	40			17-Nov-03	430				
27-Oct-03	70			24-Nov-03	280				
4-Nov-03	260			1-Dec-03	2210				
12-Nov-03	350			9-Dec-03	130				
17-Nov-03	240			15-Dec-03	520				
24-Nov-03	100			22-Dec-03	160				
1-Dec-03	1800			30-Dec-03	190				
9-Dec-03	100			5-Jan-04	80				
15-Dec-03	180			05-Jan-04	80				
22-Dec-03	120			12-Jan-04	100				
30-Dec-03	210			12-Jan-04	100				
12-Jan-04	120			20-Jan-04	90				
12-Jan-04	120			02-Feb-04	3100				
20-Jan-04	80			09-Feb-04	60				
02-Feb-04	1540			17-Feb-04	50				
09-Feb-04	100			23-Feb-04	50				

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River Above Love Cr. (180)	Fecal Coliform (#/100 mL)	San Lorenzo River @ Pacific Ave Brookdale (241)	Fecal Coliform (#/100 mL)	San Lorenzo River @ River Street (245)	Fecal Coliform (#/100 mL)	Two Bar Cr. @ San Lorenzo River (290)	Fecal Coliform (#/100 mL)	SLR @ Two Bar Cr. (309)	Fecal Coliform (#/100 mL)
17-Feb-04	360			01-Mar-04	270				
23-Feb-04	80			08-Mar-04	80				
01-Mar-04	440			15-Mar-04	110				
08-Mar-04	50			22-Mar-04	290				
15-Mar-04	110			29-Mar-04	110				
22-Mar-04	180			06-Apr-04	220				
29-Mar-04	50			12-Apr-04	180				
06-Apr-04	110			19-Apr-04	170				
12-Apr-04	110			26-Apr-04	210				
19-Apr-04	140			03-May-04	150				
26-Apr-04	110			10-May-04	170				
03-May-04	80			17-May-04	230				
10-May-04	80			26-May-04	130				
17-May-04	180			01-Jun-04	490				
26-May-04	30			09-Jun-04	70				
01-Jun-04	280			15-Jun-04	220				
09-Jun-04	60			16-Jun-04	104				
15-Jun-04	80			21-Jun-04	140				
21-Jun-04	100			29-Jun-04	80				
29-Jun-04	30			07-Jul-04	110				
07-Jul-04	90			12-Jul-04	140				
12-Jul-04	112			19-Jul-04	280				
20-Jul-04	56			20-Jul-04	192				
28-Jul-04	108			28-Jul-04	112				
04-Aug-04	130			04-Aug-04	108				
09-Aug-04	52			04-Aug-04	120				
16-Aug-04	48			09-Aug-04	148				
23-Aug-04	88			16-Aug-04	216				
30-Aug-04	44			23-Aug-04	160				
08-Sep-04	76			30-Aug-04	48				
13-Sep-04	92			08-Sep-04	252				
20-Sep-04	232			13-Sep-04	76				
27-Sep-04	104			20-Sep-04	1500				
04-Oct-04	120			23-Sep-04	36				
13-Oct-04	112			27-Sep-04	128				
18-Oct-04	2000			04-Oct-04	120				
27-Oct-04	1932			13-Oct-04	48				
01-Nov-04	68			18-Oct-04	2000				
08-Nov-04	104			27-Oct-04	1688				
15-Nov-04	80			01-Nov-04	128				
22-Nov-04	40			08-Nov-04	258				

Santa Cruz County Environmental Health Department
San Lorenzo River Data

San Lorenzo River Above Love Cr. (180)	Fecal Coliform (#/100 ml)	San Lorenzo River @ Pacific Ave. Brookdale (241)	Fecal Coliform (#/100 ml)	San Lorenzo River @ River Street (245)	Fecal Coliform (#/100 ml)	Two Bar Cr. @ San Lorenzo River (290)	Fecal Coliform (#/100 ml)	SLR @ Two Bar Cr. (300)	Fecal Coliform (#/100 ml)
01-Dec-04	40			15-Nov-04	112				
06-Dec-04	24			22-Nov-04	204				
13-Dec-04	116			01-Dec-04	204				
21-Dec-04	36			06-Dec-04	92				
28-Dec-04	250			08-Dec-04	250				
05-Jan-05	64			13-Dec-04	148				
10-Jan-05	284			21-Dec-04	28				
19-Jan-05	80			05-Jan-05	44				
24-Jan-05	48			10-Jan-05	52				
31-Jan-05	60			19-Jan-05	96				
07-Feb-05	60			24-Jan-05	64				
14-Feb-05	68			31-Jan-05	64				
21-Feb-05	490			07-Feb-05	160				
28-Feb-05	770			14-Feb-05	104				
07-Mar-05	88			21-Feb-05	400				
15-Mar-05	48			28-Feb-05	230				
21-Mar-05	140			07-Mar-05	104				
28-Mar-05	430			15-Mar-05	128				
04-Apr-05	310			21-Mar-05	170				
11-Apr-05	136			28-Mar-05	270				
18-Apr-05	128			04-Apr-05	230				
25-Apr-05	136			11-Apr-05	68				
02-May-05	80			18-Apr-05	96				
09-May-05	1320			25-Apr-05	320				
16-May-05	608			02-May-05	132				
23-May-05	100			09-May-05	1570				
01-Jun-05	212			16-May-05	416				
06-Jun-05	126			23-May-05	104				
13-Jun-05	104			01-Jun-05	212				
23-Jun-05	120			06-Jun-05	156				
29-Jun-05	90			13-Jun-05	224				
05-Jul-05	96			23-Jun-05	150				
11-Jul-05	124			29-Jun-05	170				
18-Jul-05	180			05-Jul-05	204				
25-Jul-05	132			11-Jul-05	248				
01-Aug-05	60			13-Jul-05	136				
08-Aug-05	132			18-Jul-05	220				
15-Aug-05	64			25-Jul-05	1452				
22-Aug-05	64			01-Aug-05	128				
30-Aug-05	30			08-Aug-05	160				
07-Sep-05	110			15-Aug-05	156				

Santa Cruz County Environmental Health Department
Branciforte Creek Water Quality Data

Branciforte Ck above SER (010)	Fecal Coliform (#/100 mL)	Branciforte Ck @ Carbonera Ck (0120)	Fecal Coliform (#/100 mL)	Branciforte Ck @ Isabel Dr (0121)	Fecal Coliform (#/100 mL)	Branciforte Ck @ Delacaga	Fecal Coliform (#/100 mL)
11-Apr-95	216	20-Sep-95	88	09-Feb-00	230	30-Jun-03	268
23-Aug-95	528	19-Mar-96	190	23-Mar-00	250	09-Jul-03	120
05-Dec-95	1490	06-Feb-97	120	20-Apr-00	190	16-Jul-03	448
18-Dec-95	2140	20-Dec-00	90	25-May-00	340	22-Jul-03	88
03-Jan-96	1390	09-Jan-01	340	26-Jul-00	390	28-Jul-03	72
17-Jan-96	800	13-Aug-01	52	28-Sep-00	160	05-Aug-03	68
30-Jan-96	100	24-Jan-02	9	15-Nov-00	176	12-Aug-03	84
15-Feb-96	860			04-Dec-00	28	20-Aug-03	56
29-Feb-96	1400			09-Jan-01	540	25-Aug-03	172
29-May-96	680			07-Feb-01	112	04-Sep-03	168
11-Jun-96	620			28-Mar-01	230	15-Sep-03	170
26-Jun-96	890			23-Apr-01	4275	26-May-04	410
09-Jul-96	288			23-May-01	650	02-Jun-04	104
21-Aug-96	7170			20-Jun-01	96	09-Jun-04	90
23-Sep-96	870			30-Jul-01	170	15-Jun-04	120
07-Oct-96	280			13-Aug-01	92	21-Jun-04	188
23-Oct-96	720			28-Nov-01	90	29-Jun-04	100
29-Oct-96	11520			19-Dec-01	90	08-Jul-04	110
07-Nov-96	270			13-Jan-02	60	12-Jul-04	108
26-Nov-96	580			13-Feb-02	44	19-Jul-04	60
18-Dec-96	420			19-Mar-02	20	28-Jul-04	92
06-Jan-97	220			04-Jun-02	100	04-Aug-04	150
03-Feb-97	180			30-Jul-02	188	16-Aug-04	252
06-Feb-97	130			22-Aug-02	96	23-Aug-04	76
19-Feb-97	120			14-Nov-02	80	30-Aug-04	122
20-Dec-00	50			18-Dec-02	210	08-Sep-04	136
09-Jan-01	490			16-Jan-03	90	13-Sep-04	16
24-Jan-02	9			11-Feb-03	220	20-Sep-04	128
26-Feb-02	9			19-Mar-03	390	27-Sep-04	80
26-Sep-05	190			03-Jun-03	172	01-Jun-05	150
09-Mar-06	230			16-Jul-03	140	06-Jun-05	188
26-Apr-06	72			28-Aug-03	232	13-Jun-05	84
15-Jun-06	230			23-Sep-03	440	23-Jun-05	80
				13-Nov-03	190	29-Jun-05	150
				17-Dec-03	230	05-Jul-05	96
				06-Jan-04	80	11-Jul-05	40
				05-Feb-04	130	18-Jul-05	108
				02-Mar-04	230	25-Jul-05	512

Santa Cruz County Environmental Health Department
Branciforte Creek Water Quality Data

Branciforte Cr above SER (0-10)	Fecal Coliform (#/100 mL)	Branciforte Cr @ Carbonera Cr (0-20)	Fecal Coliform (#/100 mL)	Branciforte Cr @ Isabel Dr (0-21)	Fecal Coliform (#/100 mL)	Branciforte Cr @ Delaveaga	Fecal Coliform (#/100 mL)
				11-May-04	370	27-Jul-05	248
				14-Jul-04	170	01-Aug-05	156
				02-Sep-04	125	08-Aug-05	128
				07-Oct-04	805	15-Aug-05	280
				03-Nov-04	120	16-Aug-05	300
				25-Jan-05	335	17-Aug-05	160
				09-Feb-05	68	22-Aug-05	70
				10-Mar-05	80	31-Aug-05	40
				13-Apr-05	140	07-Sep-05	120
				04-May-05	220	22-May-06	2320
				15-Jun-05	380	05-Jun-06	100
				14-Jul-05	485	20-Jun-06	170
				10-Aug-05	245		
				20-Sep-05	116		
				09-Nov-05	880		
				17-Nov-05	370		
				15-Dec-05	145		
				12-Jan-06	420		
				14-Feb-06	50		
				09-Mar-06	110		

Santa Cruz County Environmental Health Department
Branciforte Creek Water Quality Data

		Branciforte Ck Below Carbonera	Fecal Coliform (#/100 mL)	Branciforte Ck 150M UP 0121	Fecal Coliform (#/100 mL)	Branciforte Ck 250M UP 0121	Fecal Coliform (#/100 mL)
		26-Sep-05	150	17-Nov-05	340	17-Nov-05	1005

Santa Cruz County Environmental Health Department
Branciforte Creek Water Quality Data

Branciforte Cr. MID Playground	Fecal Coliform (#/100ml)	Branciforte Cr. @ SD @ Field 2	Fecal Coliform (#/100 ml)	Branciforte Cr. above Ball Field	Fecal Coliform (#/100 ml)	P40 Cr. @ George Washington Pk	Fecal Coliform (#/100 ml)
16-Aug-05	252	16-Aug-05	556	17-Aug-05	30	17-Aug-05	110
		17-Aug-05					180

Santa Cruz County Environmental Health Department
Branciforte Creek Water Quality Data

Branciforte Ck @ Santa Vida	Fecal Coliform (#/100 mL)	B40 Ck @ Car Bridge Santa Vida	Fecal Coliform (#/100 mL)	B40 Ck @ Footbridge- Santa Vida	Fecal Coliform (#/100 mL)
13-May-03	540	13-May-03	1430	13-May-03	480

Santa Cruz County Environmental Health Department
Branciforte Creek Water Quality Data

Branciforte Ck @ Granite Ck	Fecal Coliform (#/100 mL)	Branciforte Ck @ H.V. School	Fecal Coliform (#/100 mL)
13-May-03	380	13-May-03	130

Santa Cruz County Environmental Health Department
Carbonera Creek Water Quality Data

Carbonera CR @ Branchforte CR (01/10)	Fecal Coliform (#/100 ml)	Carbonera CR @ Glen Canyon Rd	Fecal Coliform (#/100 ml)	Spring Leakes CR @ Carbonera Cr	Fecal Coliform (#/100 ml)	Carbonera CR AB SPRNG LEAKS CR	Fecal Coliform (#/100 ml)
	44	7-Nov-00	170	02-Feb-00	80	02-Feb-00	140
19-Oct-00				14-Mar-00	120	14-Mar-00	110
20-Dec-00	40			20-Apr-00	80	20-Apr-00	470
09-Jan-01	360			25-May-00	440	24-May-00	520
13-Aug-01	1900			26-Jul-00	250	25-May-00	460
24-Jan-02	30			31-Aug-01	237	26-Jul-00	410
26-Feb-02	9					27-Sep-00	180
26-Sep-05	90					04-Dec-00	124
13-Oct-05	90					04-Jan-01	100
14-Feb-06	60					07-Feb-01	44
09-Mar-06	160					27-Mar-01	520
15-Jun-06	90					23-May-01	3200
						31-May-01	780
						20-Jun-01	580
						30-Jul-01	220
						11-Oct-01	300
						28-Nov-01	540
						19-Dec-01	90
						13-Jan-02	100
						13-Feb-02	36
						26-Feb-02	60
						19-Mar-02	30
						19-Apr-02	1070
						04-Jun-02	180
						30-Jul-02	160
						22-Aug-02	272
						25-Sep-02	4480
						14-Nov-02	50
						18-Dec-02	320
						16-Jan-03	70
						11-Feb-03	180
						19-Mar-03	150
						03-Jun-03	100
						16-Jul-03	180
						28-Aug-03	888
						23-Sep-03	170
						13-Nov-03	80
						17-Dec-03	40
						06-Jan-04	70
						05-Feb-04	80
						02-Mar-04	710
						11-May-04	280
						14-Jul-04	170
						02-Sep-04	20
						07-Oct-04	115
						03-Nov-04	165

Santa Cruz County Environmental Health Department
Carbonera Creek Water Quality Data

Carbonera CR @ Branchfont CR (0110)	Fecal Coliform (#/100ml)	Carbonera CR @ Glen Canyon Rd.	Fecal Coliform (#/100ml)	Spring Lakes CR @ Carbonera CR	Fecal Coliform (#/100ml)	Carbonera CR AB SPRG LKS CR	Fecal Coliform (#/100ml)
						15-Dec-04	90
						25-Jan-05	155
						09-Feb-05	44
						10-Mar-05	490
						13-Apr-05	30
						04-May-05	320
						15-Jun-05	265
						14-Jul-05	100
						10-Aug-05	35
						20-Sep-05	280
						09-Nov-05	540
						15-Dec-05	10
						12-Jan-06	35
						14-Feb-06	120
						09-Mar-06	190
						15-Jun-06	340

Santa Cruz County Environmental Health Department
Carbonera Creek Water Quality Data

Carbonera @ Disc Dr.	Fecal Coliform (#/100 mL)	Carbonera CR @ El Pueblo Rd.	Fecal Coliform (#/100 mL)	Carbonera CR @ MS Bellamy Dr.	Fecal Coliform (#/100 mL)
24-May-00	380	09-Jan-02	250	24-May-00	320

City of Scotts Valley
Carbonera Creek Data E.Coli Data

Site #	Sampling Location	Date	E.coli (#/100ml)
1	Camp Evers Cr. @ Cold Stream Way	16-Jan-05	36
1	Camp Evers Cr. @ Cold Stream Way	13-Jan-05	9
1	Camp Evers Cr. @ Cold Stream Way	20-Jan-05	610
1	Camp Evers Cr. @ Cold Stream Way	27-Jan-05	75
1	Camp Evers Cr. @ Cold Stream Way	10-Feb-05	4500
1	Camp Evers Cr. @ Cold Stream Way	17-Feb-05	160
2	Camp Evers Cr. @ Whispering Pines	16-Jan-05	2400
2	Camp Evers Cr. @ Whispering Pines	13-Jan-05	820
2	Camp Evers Cr. @ Whispering Pines	20-Jan-05	330
2	Camp Evers Cr. @ Whispering Pines	27-Jan-05	250
2	Camp Evers Cr. @ Whispering Pines	10-Feb-05	2000
2	Camp Evers Cr. @ Whispering Pines	17-Feb-05	290
3	Camp Evers Cr. @ Carbonera Cr.	16-Jan-05	66
3	Camp Evers Cr. @ Carbonera Cr.	13-Jan-05	770
3	Camp Evers Cr. @ Carbonera Cr.	20-Jan-05	120
3	Camp Evers Cr. @ Carbonera Cr.	27-Jan-05	520
3	Camp Evers Cr. @ Carbonera Cr.	10-Feb-05	104
3	Camp Evers Cr. @ Carbonera Cr.	17-Feb-05	140
4	Carbonera Cr. @ Disc Dr.	16-Jan-05	75
4	Carbonera Cr. @ Disc Dr.	13-Jan-05	57
4	Carbonera Cr. @ Disc Dr.	20-Jan-05	370
4	Carbonera Cr. @ Disc Dr.	27-Jan-05	390
4	Carbonera Cr. @ Disc Dr.	10-Feb-05	82
4	Carbonera Cr. @ Disc Dr.	17-Feb-05	370
5	Carbonera Cr. AB Camp Evers Cr.	16-Jan-05	59
5	Carbonera Cr. AB Camp Evers Cr.	13-Jan-05	33
5	Carbonera Cr. AB Camp Evers Cr.	20-Jan-05	200
5	Carbonera Cr. AB Camp Evers Cr.	27-Jan-05	870
5	Carbonera Cr. AB Camp Evers Cr.	10-Feb-05	150
5	Carbonera Cr. AB Camp Evers Cr.	17-Feb-05	180
6	Carbonera Cr. @ Hwy. 17	16-Jan-05	91
6	Carbonera Cr. @ Hwy. 17	13-Jan-05	120
6	Carbonera Cr. @ Hwy. 17	20-Jan-05	190
6	Carbonera Cr. @ Hwy. 17	27-Jan-05	460
6	Carbonera Cr. @ Hwy. 17	10-Feb-05	93
6	Carbonera Cr. @ Hwy. 17	17-Feb-05	270

Coastal Watershed Council
San Lorenzo River Data

DATE	E. Coli (MPN/100ml)					
	Sanlo 21	Sanlo 22	Sanlo 25	Sanlo 26	Sanlo 27	Branch 24
LOCATION	Downriver Santa Cruz near Royal Inn Restaurant, Dakota St.	San Lorenzo River Mouth @ Trestle Bridge	Songs Creek	Tollhouse Creek/San Lorenzo River Confluence	Boulder Creek/San Lorenzo River Confluence	Branch 24 Creek/San Lorenzo River Confluence
17-May-03	135	259	41	5		
05-Nov-03						590
09-Mar-04						1076
01-May-04		160		204		
25-May-04						833
06-Jul-04						907
16-Aug-04						650
08-Nov-04						25000
07-May-05	2613	122		187	231	
LOGMean	594	172	41	58	231	1408
Min	135	122	41	5	231	590
Max	2613	259	41	204	231	25000
Count	2	3	1	3	1	6
#>E.coli Target (235MPN)	1	1	0	0	0	6
%>E.coli Target (235MPN)	50%	33%	0%	0%	0%	100%

Coastal Watershed Council Data
Branciforte Creek

DATE	E.Coli (MPN/100ml)						
	Branc 21	Branc 22	Branc 23	Branc 24	Carbo 21	Gran 21	Branc 25
LOCATION	Branciforte Creek/ San Lorenzo River Confluence	Tony Phieves	4th Market	Happy Valley	Carbonetti Creek	Granite Creek	405th Branc Creek
5-Nov-03	590	20	148		316		
9-Mar-04	1076						
8-Mar-04		20	143				
25-May-04	833	331	305	305	209	97	
6-Jul-04	907	201	700	262	86	10	110
16-Aug-04	650	581					
22-Sep-04		41	657				
7-Oct-04		495	933				
8-Nov-04	25000	25000	441	31	563		
LOGMean	1408	230	384	135	238	31	110
Min	590	20	143	31	86	10	110
Max	25000	25000	933	305	563	97	110
Count	6	8	7	3	4	2	1
#>E.Coli Target (235MPN/ 100ml)	6	4	5	2	2	0	0
%>E.Coli Target (235MPN/ 100ml)	100%	50%	71%	67%	50%	0%	0%

Coastal Watershed Council
San Lorenzo River

DATE	Fecal Coliform (MPN/100ml)		
	Sanlo 21	Sanlo 22	
LOCATION	Downtown Santa Cruz near Royal Haj Restaurant Dakota St.	San Lorenzo River Mouth @ Hessite Bridge	San Lorenzo River at School
21-Apr-01	2860	2140	
13-Nov-02			90
#> Fecal Coliform Target (400 MPN/100ml)	1	1	0

Santa Cruz Chapter Surfrider Results
San Lorenzo River

DATE	Fecal Coliform (MPN/100ml)
13-Nov-02	90
#> Fecal Coliform Target (400 MPN/100ml)	0

APPENDIX B. FECAL COLIFORM 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 objective¹ exceedances. Data are compared against water quality objectives or criteria to determine magnitude and frequency of exceedances. The FECIA program generated the data analysis figures and tables within this section.

All figures in Appendix B show the REC-1 geometric mean water quality objective or criteria, concentration ranges, range of concentrations within the 25th -75th percentile range, mean concentration, and median concentration.

All tables in Appendix B provide summary statistics of the figures. The table displays statistical data on a monthly basis. The table shows the mean, the median, the minimum, the maximum, the 25th percent deviation, the 75th percent deviation, the number of exceedances of the water contact recreation water quality objective or criteria versus the sample count (XS:Count), and the percent sample exceedance (XS%) of the water quality objective or criteria. Note that when the table analyzed geometric means, the column entitled "mean" is 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.

San Lorenzo River Estuary at Trestle (003)

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

Figure 1 shows monthly fecal coliform concentrations for the San Lorenzo River Estuary at the Trestle from 1/4/2000 to 6/27/2006. Fecal coliform mean values are below the water quality objective in January, February and May. All other months of the year the mean concentrations exceed the water quality objective.

¹ Or *E.coli* water quality criteria

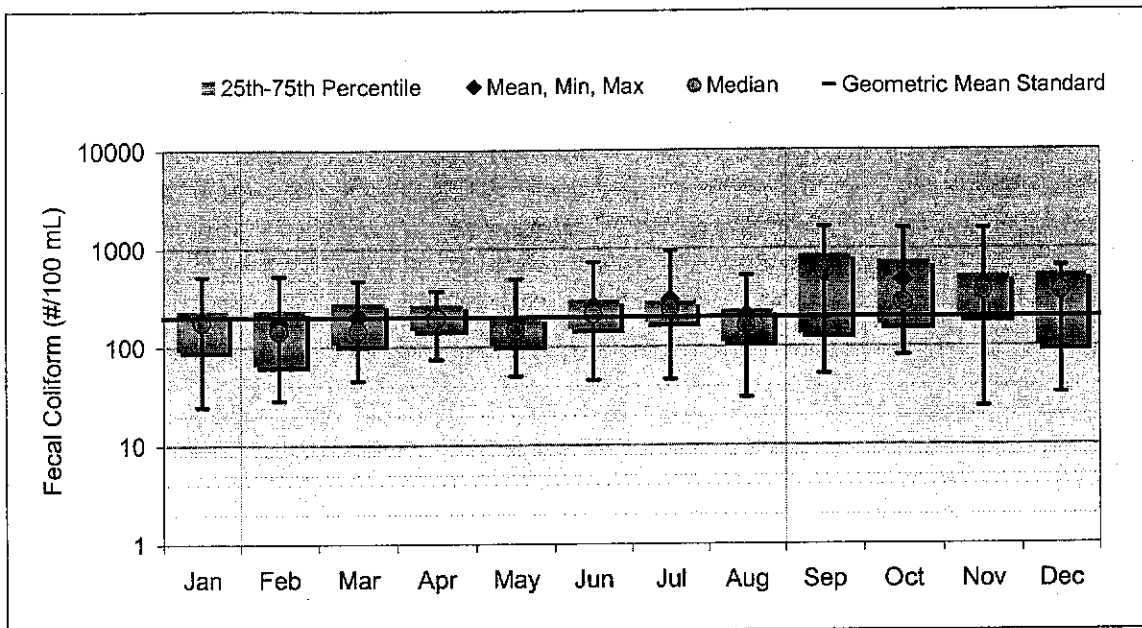


Figure 1. San Lorenzo River Estuary Fecal Coliform at Trestle (#/100 mL) and Water Contact Recreation Geometric Mean Water Quality Objective (January 4, 2000 – June 27, 2006)

Table 1 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 50% of the time. The least violations occur in May and the greatest numbers of violations occur in October. There is no seasonal water quality trend.

Table 1. San Lorenzo River Estuary Fecal Coliform at Trestle Data Summary (#/100 mL) and Exceedance of Water Contract Recreation Geometric Mean Water Quality Objective

Summary Statistics (Data: 1/4/2000 to 6/27/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	175	178	25	522	92	235	10:25	40%
Feb	175	144	29	532	65	239	9:26	35%
Mar	202	147	45	474	106	282	13:33	39%
Apr	214	196	74	374	150	271	15:32	47%
May	177	148	50	498	103	203	7:25	28%
Jun	257	215	46	728	152	301	14:27	52%
Jul	303	241	47	955	177	290	17:26	65%
Aug	208	165	30	529	110	238	10:27	37%
Sep	545	590	52	1669	134	865	13:23	57%
Oct	475	280	81	1620	164	753	18:25	72%
Nov	441	363	25	1609	194	538	20:28	71%
Dec	347	367	34	662	97	557	18:28	64%
All Data	288	207	25	1669	127	357	164:325	50%

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 2 below shows monthly fecal coliform concentrations for San Lorenzo River Estuary at the Trestle from 1/4/2000 to 6/27/2006. Mean concentrations exceed the water quality objective in all months except January and April.

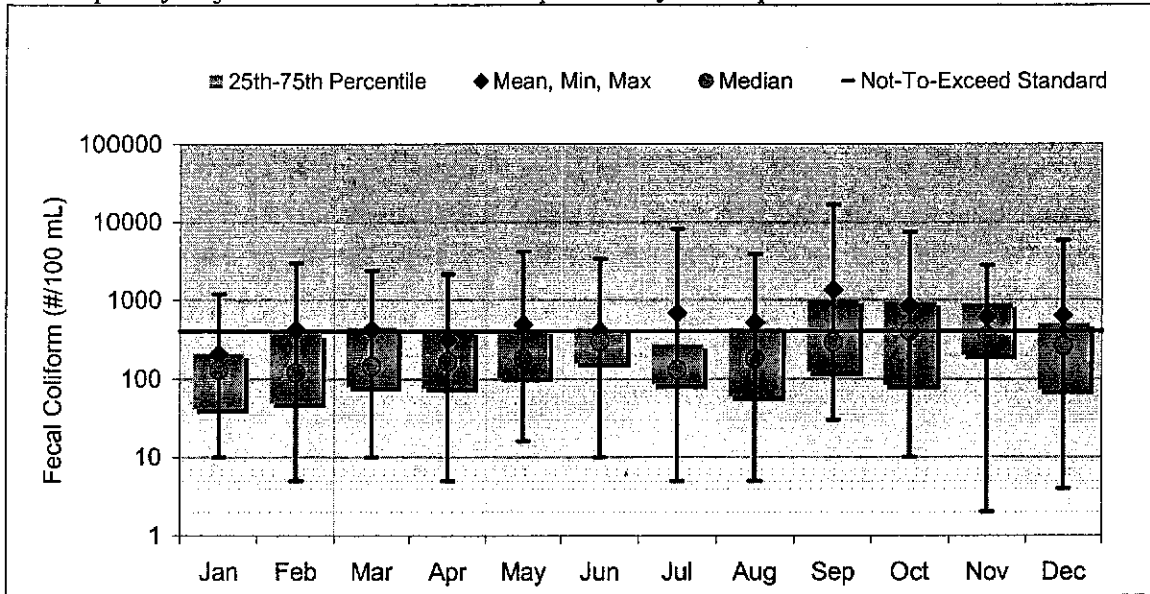


Figure 2. San Lorenzo River Estuary Fecal Coliform at Trestle (#/100 mL) and Water Contact Maximum Water Quality Objective (January 4, 2000 through June 27, 2006)

Table 2 below provides summary statistics of the above figure. Overall, the quality objective was exceeded 29% of the time with no seasonal trend.

Table 2. San Lorenzo River Estuary Fecal Coliform at Trestle Data Summary (#/100 mL) and Exceedance of Water Contract Recreation Maximum Water Quality Objective

Summary Statistics (Data: 1/4/2000 to 6/27/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	205	130	10	1200	42	210	3:31	10%
Feb	414	120	5	2976	50	378	8:31	26%
Mar	419	145	10	2380	80	453	9:32	28%
Apr	311	165	5	2150	78	415	8:32	25%
May	484	180	16	4170	105	415	7:26	27%
Jun	405	295	10	3350	160	438	9:32	28%
Jul	679	130	5	8040	85	275	4:27	15%
Aug	513	180	5	3910	60	440	8:29	28%
Sep	1331	290	30	16632	123	1006	11:26	42%
Oct	844	400	10	7420	84	950	14:29	48%
Nov	601	350	2	2780	200	910	10:27	37%
Dec	631	260	4	5760	72	510	12:29	41%
All Data	555	200	2	16632	80	490	103:351	29%

San Lorenzo River Estuary at Broadway/Laurel Street Bridge (006)

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

Figure 3 below shows monthly fecal coliform concentrations for San Lorenzo River Estuary at the Broadway/Laurel Street from 1/4/2000 to 6/27/2006. Mean concentrations exceed the water quality objective in all months except for May.

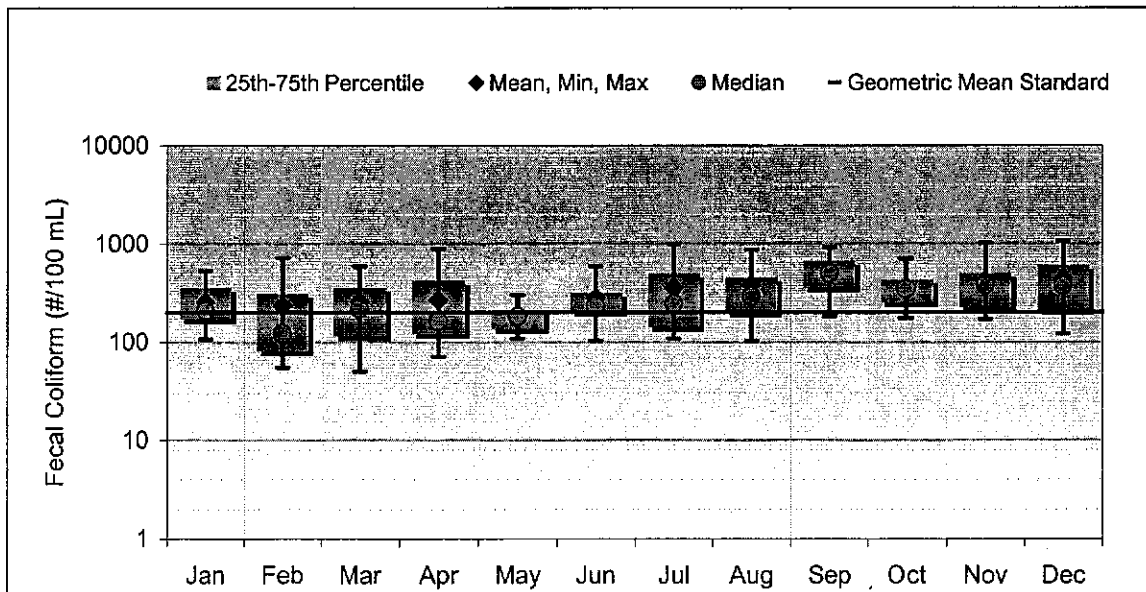


Figure 3. San Lorenzo River Estuary Fecal Coliform at Broadway/Laurel Bridge (#/100 mL) and Water Contact Recreation Geometric Mean Water Quality Objective (January 4, 2000 through June 27, 2006)

Table 3 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 63% of the time with no apparent seasonal trend.

Table 3. San Lorenzo River Estuary Fecal Coliform at Broadway/Laurel Street Bridge Data Summary (#/100 mL) and Exceedance of Water Contract Recreation Geometric Mean Water Quality Objective

Summary Statistics (Data: 1/4/2000 to 6/27/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	257	209	106	534	172	362	11:21	52%
Feb	235	123	55	724	82	314	9:23	39%
Mar	258	218	50	598	116	365	15:28	54%
Apr	268	164	72	895	122	427	11:29	38%
May	186	185	108	305	137	214	9:21	43%
Jun	281	233	104	593	204	321	17:23	74%
Jul	357	247	109	994	143	506	13:23	57%
Aug	383	293	103	870	198	460	16:22	73%
Sep	523	504	183	917	359	673	19:20	95%
Oct	363	350	174	711	254	435	19:22	86%
Nov	423	384	171	1016	225	507	19:24	79%
Dec	442	379	121	1068	209	607	21:27	78%
All Data	330	256	50	1068	171	438	179:283	63%

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 4 below shows monthly fecal coliform concentrations for San Lorenzo River Estuary at the Broadway/Laurel Street Bridge from 1/4/2000 to 6/27/2006. Mean concentrations exceed the water quality objective in all months except January, April, May and June.

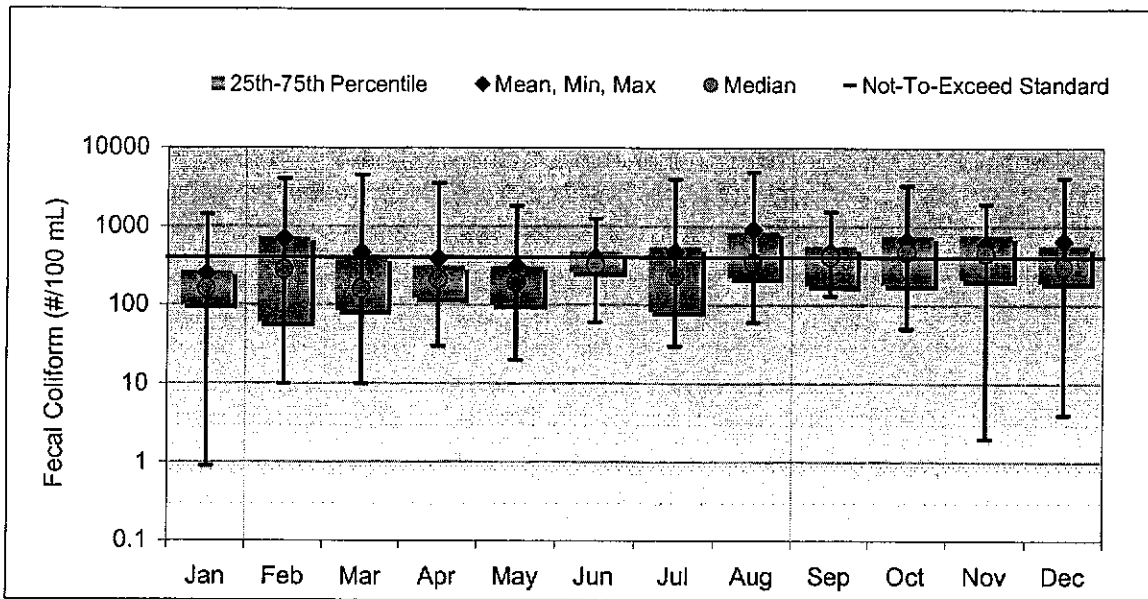


Figure 4. San Lorenzo River Estuary Fecal Coliform at Broadway/Laurel Street Bridge (#/100 mL) and Water Contact Maximum Water quality Objective (January 4, 2000 through June 27, 2006)

Table 4 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 35% of the time. There is no seasonal trend.

Table 4. San Lorenzo River Estuary Fecal Coliform at Broadway/Laurel Street Bridge Data Summary (#/100 mL) and Exceedance of Water Contract Recreation Maximum Water Quality Objective

Summary Statistics (Data: 1/4/2000 to 6/27/2006)									
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%	
Jan	246	160	1	1430	100	268	6:30	20%	
Feb	700	280	10	4000	60	730	9:27	33%	
Mar	465	160	10	4498	85	405	8:31	26%	
Apr	384	210	30	3490	123	315	6:30	20%	
May	303	190	20	1820	100	310	5:25	20%	
Jun	399	320	60	1250	260	480	10:29	34%	
Jul	471	232	30	3970	83	553	8:26	31%	
Aug	907	345	60	4900	222	855	12:26	46%	
Sep	472	410	130	1530	177	558	12:24	50%	
Oct	659	470	50	3300	180	760	14:25	56%	
Nov	583	450	2	1940	210	780	15:26	58%	
Dec	647	310	4	4150	195	575	10:27	37%	
All Data	514	267	1	4900	130	538	115:326	35%	

San Lorenzo River Fecal Coliform at Soquel Avenue Bridge (009)

Geometric Mean Objective (200 MPN/100 mL)

There are not enough water quality data at the Soquel Avenue Bridge station to calculate the geometric mean (No months have the minimum of five samples needed to calculate the geometric mean). The most recent data available is from 11/24/86 to 02/19/97.

Maximum Objective (400 MPN/100 mL)

Figure 5 shows monthly fecal coliform concentrations for San Lorenzo River Estuary at the Soquel Avenue Bridge from 11/24/1986 to 02/19/1997. The mean concentrations exceed the water quality objective in January, April-May, August, and October through December.

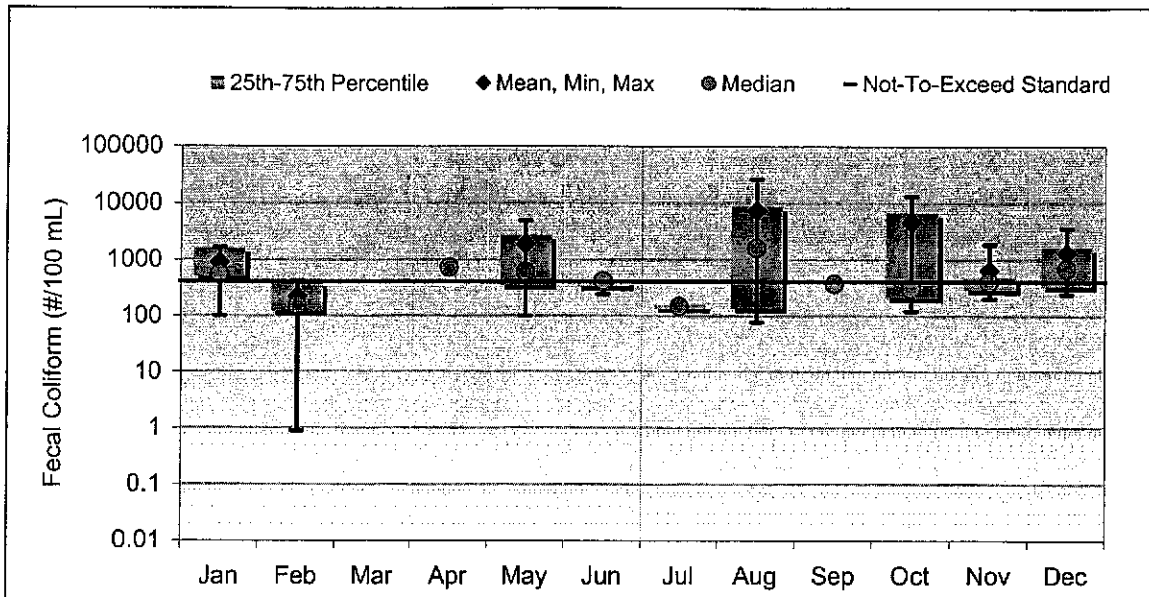


Figure 5. San Lorenzo River Estuary Fecal Coliform at Soquel Avenue Bridge Data Summary (#/100 mL) and Exceedance of Water Contract Recreation Maximum Water Quality Objective (11/24/1986 to 2/19/1997)

Table 5 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 47% of the time. There is no seasonal trend.

Table 5. San Lorenzo River Estuary Fecal Coliform at Soquel Avenue Bridge Data Summary (#/100 mL) and Exceedance of Water Contract Recreation Maximum Objective

Summary Statistics (Data: 11/24/1986 to 2/19/1997)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	882	550	100	1660	500	1600	4:5	80%
Feb	217	150	1	420	120	392	1:5	20%
Mar	0	0	0	0	0	0	0:0	n/a
Apr	720	720	720	720	720	720	1:1	100%
May	1868	604	100	4900	352	2752	2:3	67%
Jun	360	420	240	420	330	420	2:3	67%
Jul	147	147	125	168	136	157	0:2	0%
Aug	7416	1593	76	26400	136	8873	2:4	50%
Sep	370	370	370	370	370	370	0:1	0%
Oct	4573	300	120	13300	210	6800	1:3	33%
Nov	646	400	200	1850	290	490	2:5	40%
Dec	1308	685	240	3620	330	1663	2:4	50%
All Data	1817	396	1	26400	165	793	17:36	47%

Branciforte Creek at San Lorenzo River (010)

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

There are not enough water quality data at the Branciforte Creek station upstream of the San Lorenzo River to calculate geometric means. The most recent data available is from 04/11/95 to 6/15/2006. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 6 below shows monthly fecal coliform concentrations for Branciforte Creek at the San Lorenzo River confluence from 04/11/1995 to 6/15/2006. Mean concentrations exceed the water quality objective almost every month except for March, April and July (March and July only had one sample).

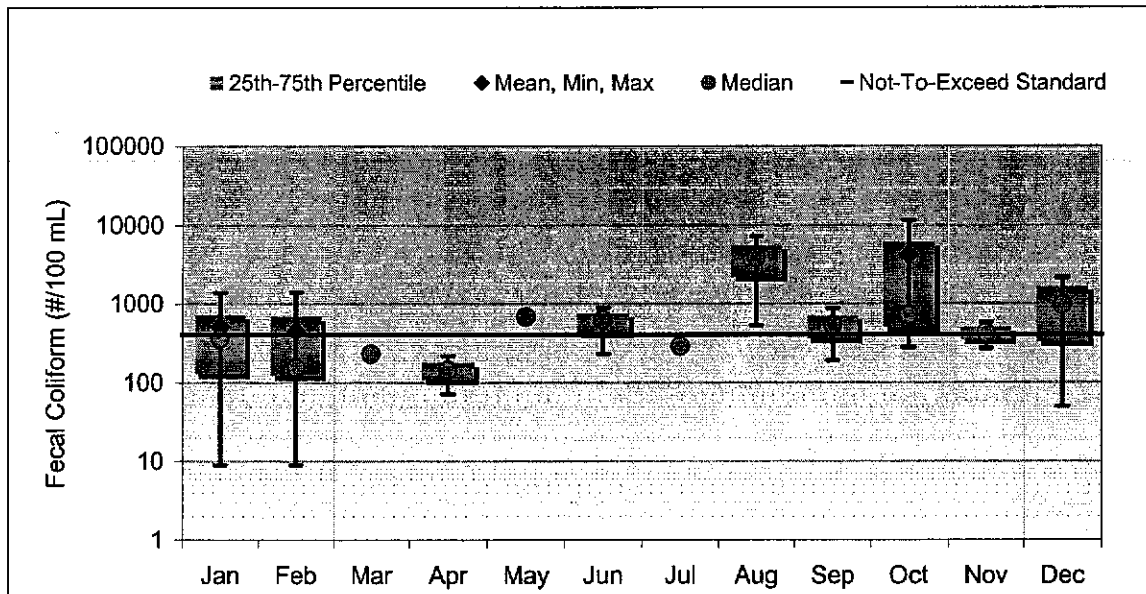


Figure 6. Branciforte Creek at San Lorenzo River Fecal Coliform (#/100 mL) and Water Contact Recreation Maximum Water Quality Objective (April 11, 1995 – June 15, 2006)

Table 6 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 52% of the time. There is no seasonal trend.

Table 6. Branciforte Creek Fecal Coliform at San Lorenzo River Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 4/11/1995 to 6/15/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	502	355	9	1390	130	723	3:6	50%
Feb	450	155	9	1400	123	690	2:6	33%
Mar	230	230	230	230	230	230	0:1	0%
Apr	144	144	72	216	108	180	0:2	0%
May	680	680	680	680	680	680	1:1	100%
Jun	580	620	230	890	425	755	2:3	67%
Jul	288	288	288	288	288	288	0:1	0%
Aug	3849	3849	528	7170	2189	5510	2:2	100%
Sep	530	530	190	870	360	700	1:2	50%
Oct	4173	720	280	11520	500	6120	2:3	67%
Nov	425	425	270	580	348	503	1:2	50%
Dec	1025	955	50	2140	328	1653	3:4	75%
All Data	1066	420	9	11520	190	860	17:33	52%

Branciforte Creek at Carbonera (0120)

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

There are not enough water quality data at the Branciforte Creek station upstream of the confluence with Carbonera Creek to calculate the geometric mean. The most recent data available is from 9/20/1995 to 1/24/2002. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 7 below shows monthly fecal coliform concentrations for Branciforte Creek at the Carbonera Creek confluence from 9/20/1995 to 1/24/2002. (This is the most recent data available.) The means did not exceed the water quality objective. However, as show in the figure below, there are not enough data to determine impairment conditions, because there are only seven samples for this timeframe.

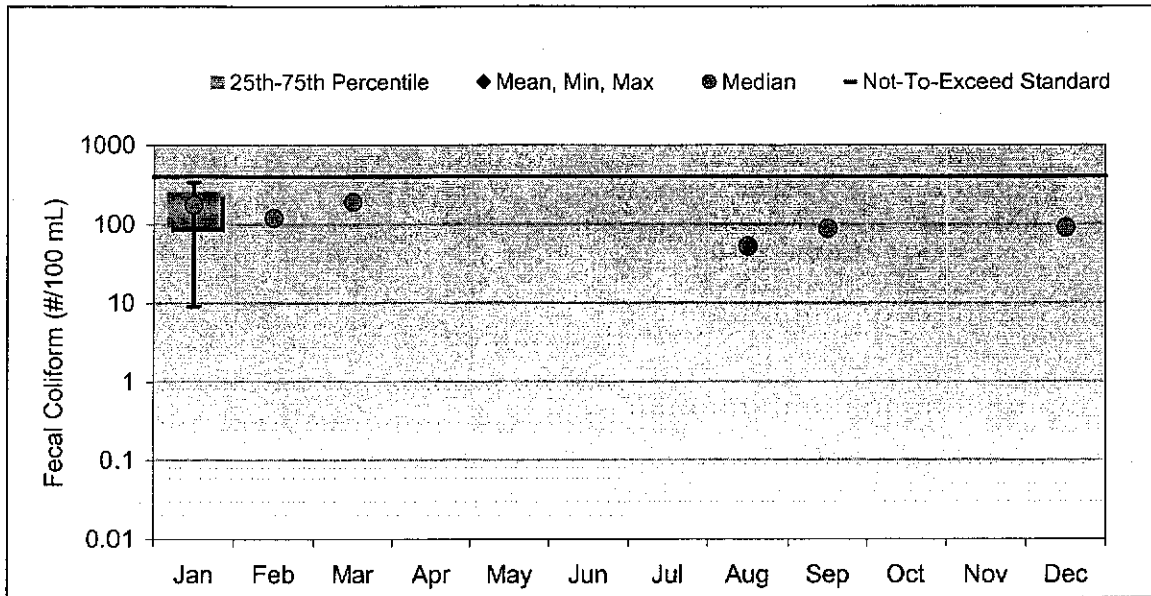


Figure 7. Branciforte Creek Fecal Coliform at San Lorenzo River Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective (September 20, 1995 – January 24, 2002)

Table 7 provides summary statistics of the above figure. This station never exceeded water quality objectives.

Table 7. Branciforte Creek Fecal Coliform at Carbonera Creek Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 9/20/1995 to 1/24/2002)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	175	175	9	340	92	257	0:2	0%
Feb	120	120	120	120	120	120	0:1	0%
Mar	190	190	190	190	190	190	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	0	0	0	0	0	0	0:0	n/a
Jul	0	0	0	0	0	0	0:0	n/a
Aug	52	52	52	52	52	52	0:1	0%
Sep	88	88	88	88	88	88	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	90	90	90	90	90	90	0:1	0%
All Data	127	90	9	340	70	155	0:7	0%

Branciforte Creek at Isbel Drive (0121)

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

There are not enough water quality data at the Isbel Drive station to calculate the geometric mean. The most recent data available is from 2/9/2000 to 6/15/2006. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 8 below shows monthly fecal coliform concentrations for Branciforte Creek at Isbel Drive from 2/9/2000 to 6/15/2006. The mean concentration exceeded the objective in April and October.

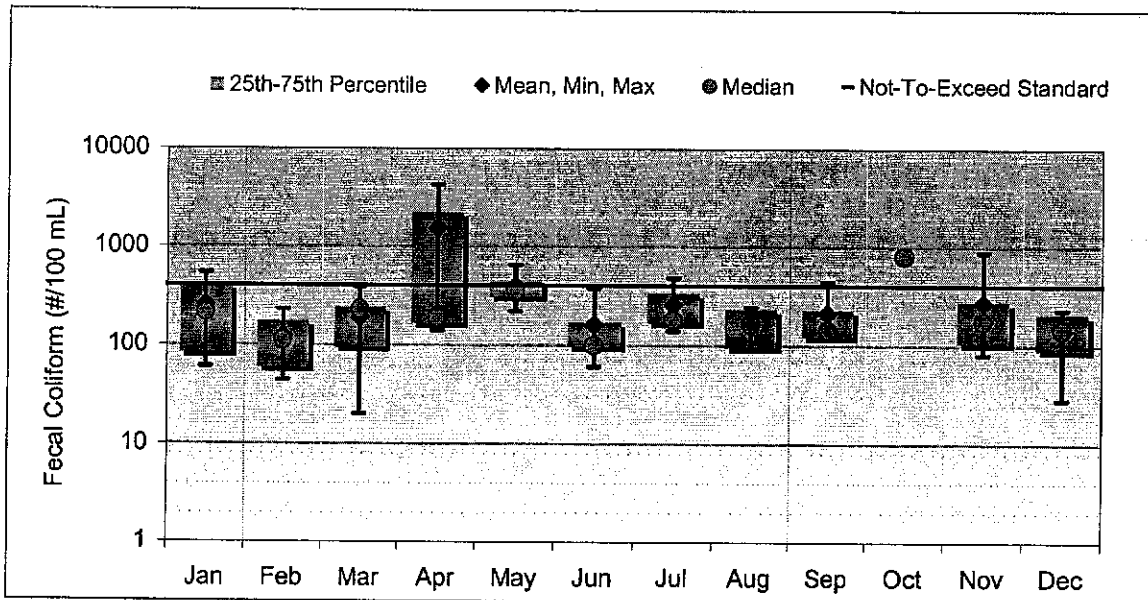


Figure 8. Branciforte Creek at Isbel Drive Fecal Coliform (#/100 mL) and Water Contact Recreation Maximum Water Quality Objective (February 9, 2000 – June 15, 2006)

Table 8 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 14% of the time. There is no seasonal trend.

Table 8. Branciforte Creek Fecal Coliform at Isbel Drive Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 2/9/2000 to 6/15/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	254	213	60	540	83	399	2:6	33%
Feb	122	112	44	230	59	175	0:7	0%
Mar	187	230	20	390	95	240	0:7	0%
Apr	1535	190	140	4275	165	2233	1:3	33%
May	395	355	220	650	310	440	1:4	25%
Jun	162	100	60	380	96	172	0:5	0%
Jul	257	179	140	485	170	340	1:6	17%
Aug	166	164	92	245	95	235	0:4	0%
Sep	210	143	116	440	123	230	1:4	25%
Oct	805	805	805	805	805	805	1:1	100%
Nov	272	176	80	880	105	280	1:7	14%
Dec	141	145	28	230	90	210	0:5	0%
All Data	291	172	20	4275	96	293	8:59	14%

San Lorenzo River at Sycamore Grove (022)

Geometric Mean Objective (200 MPN/100 mL)

Figure 9 below shows monthly fecal coliform concentrations for San Lorenzo River at the Sycamore Grove station from 1/4/2000 to 1/25/2006. The mean concentrations do not exceed the water quality objective.

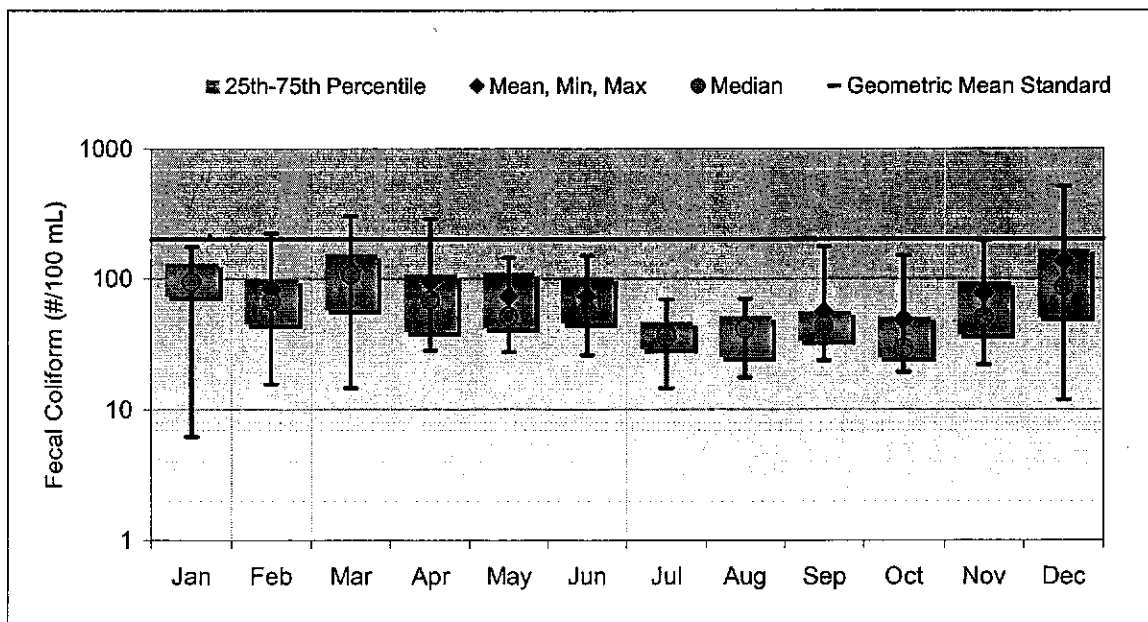


Figure 9. San Lorenzo River Fecal Coliform at Sycamore Grove (#/100 mL) and Water Contact Recreation Geometric Mean Water Quality Objective (January 4, 2000 – January 25, 2006)

Table 9 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded only 4% of the time.

Table 9. San Lorenzo River Fecal Coliform at Sycamore Grove Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Geometric Mean Objective

Summary Statistics (Data: 1/4/2000 to 1/25/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	96	94	6	176	74	131	0:30	0%
Feb	83	67	16	224	45	100	1:33	3%
Mar	112	107	15	303	58	156	2:31	6%
Apr	95	68	28	290	39	109	5:31	16%
May	73	51	27	145	42	112	0:27	0%
Jun	73	57	26	150	46	103	0:32	0%
Jul	39	36	15	69	29	47	0:32	0%
Aug	41	41	18	70	25	52	0:32	0%
Sep	55	43	24	175	34	56	0:31	0%
Oct	48	29	19	150	25	51	0:30	0%
Nov	77	51	22	197	37	94	0:30	0%
Dec	136	86	12	516	50	167	6:31	19%
All Data	77	54	6	516	35	101	14:370	4%

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 10 shows monthly fecal coliform concentrations for San Lorenzo River at Sycamore Grove station from 1/4/2000 to 1/25/2006. Mean concentrations do not exceed the water quality objective.

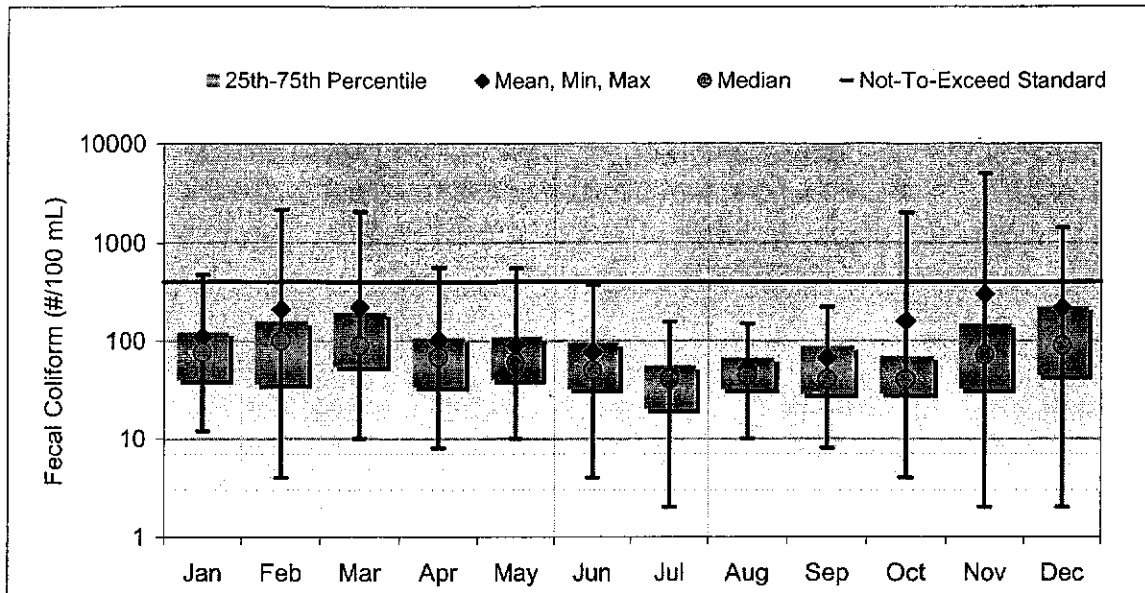


Figure 10. San Lorenzo River Fecal Coliform at Sycamore Grove (#/100 mL) and Water Contact Maximum Water Quality Objective (January 4, 2000 – January 25, 2006)

Table 10 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded only 5% of the time.

Table 10. San Lorenzo River Fecal Coliform at Sycamore Grove Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 1/4/2000 to 1/25/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS Count	XS%
Jan	108	76	12	472	40	123	2:39	5%
Feb	209	100	4	2140	36	160	3:29	10%
Mar	222	90	10	2070	55	195	2:31	6%
Apr	101	68	8	560	34	108	2:30	7%
May	89	60	10	550	40	110	1:29	3%
Jun	76	50	4	370	32	96	0:32	0%
Jul	44	40	2	156	20	56	0:33	0%
Aug	52	44	10	150	32	67	0:31	0%
Sep	66	40	8	220	29	88	0:30	0%
Oct	159	40	4	2000	29	70	2:31	6%
Nov	298	72	2	5000	32	150	3:29	10%
Dec	219	90	2	1430	44	225	4:31	13%
All Data	135	60	2	5000	32	110	19:375	5%

San Lorenzo River at Big Trees (060)

Geometric Mean Objective (200 MPN/100 mL)

Figure 11 below shows monthly fecal coliform concentrations for San Lorenzo River at the Big Trees station from 1/4/2000 to 1/23/2006. The mean concentrations exceed the water quality objective in November and December.

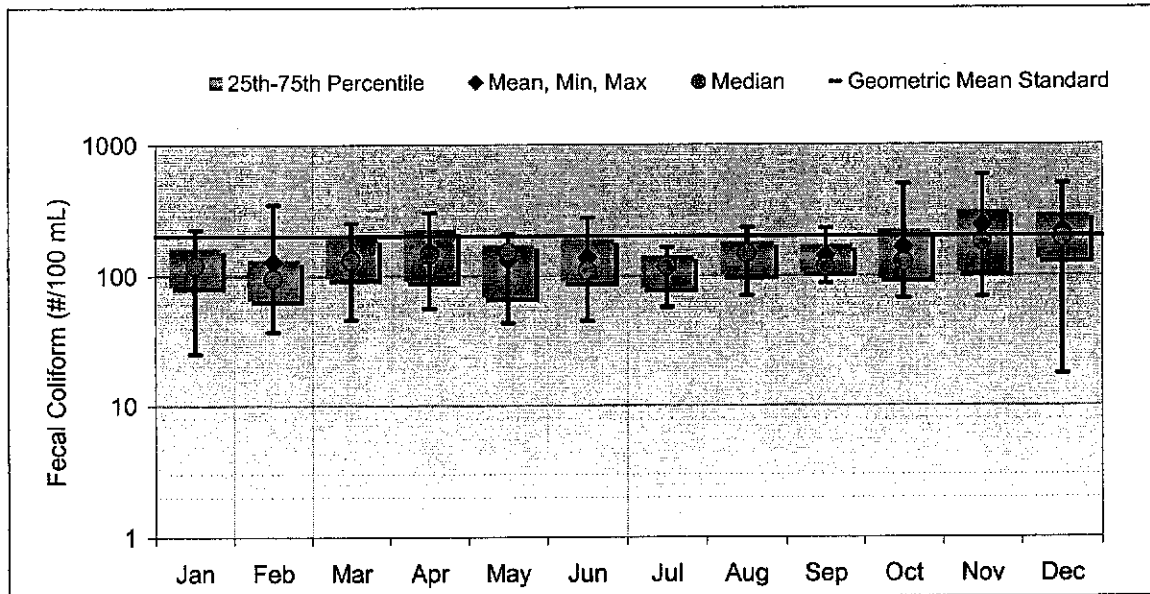


Figure 11. San Lorenzo River Fecal Coliform at Big Trees (#/100 mL) and Water Contact Recreation Geometric Mean Water Quality Objective (January 4, 2000 – January 23, 2006)

Table 11 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 24% of the time.

Table 11. San Lorenzo River Fecal Coliform at Big Trees Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Geometric Mean Objective

Summary Statistics (Data: 1/4/2000 to 1/23/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	122	119	25	226	83	164	3:26	12%
Feb	127	95	37	349	66	134	5:20	25%
Mar	141	130	46	253	95	197	6:25	24%
Apr	155	146	56	302	91	227	10:28	36%
May	131	152	43	209	69	173	2:24	8%
Jun	137	109	45	275	90	191	5:25	20%
Jul	114	120	57	165	80	142	0:25	0%
Aug	147	147	70	234	100	183	6:27	22%
Sep	141	116	88	229	106	173	3:17	18%
Oct	165	127	67	498	95	226	7:22	32%
Nov	241	182	68	589	105	314	13:28	46%
Dec	219	195	18	504	133	298	12:27	44%
All Data	155	133	18	589	92	198	72:294	24%

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 12 shows monthly fecal coliform concentrations for San Lorenzo River at Big Trees station from 1/4/2000 to 1/23/2006. Mean concentrations do not exceed the water quality objective.

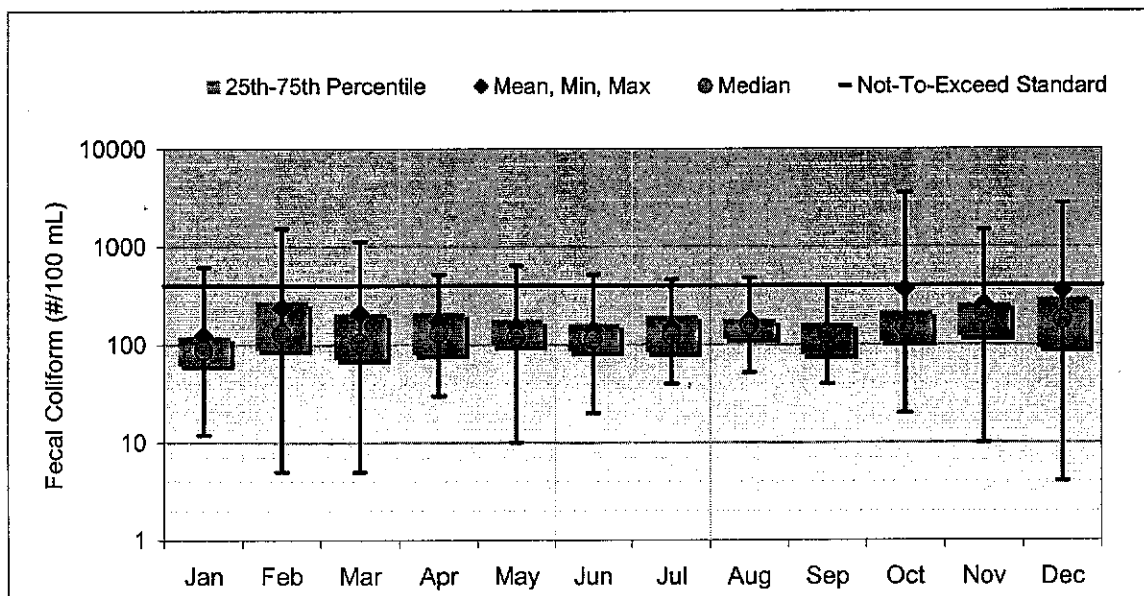


Figure 12. San Lorenzo River Fecal Coliform at Big Trees (#/100 mL) and Water Contact Maximum Water Quality Objective (January 4, 2000 – January 23, 2006)

Table 12 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 10% of the time.

Table 12. San Lorenzo River Fecal Coliform at Big Trees Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 1/4/2000 to 1/23/2006)									
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%	
Jan	124	88	12	620	63	122	1:32	3%	
Feb	240	130	5	1530	90	280	4:23	17%	
Mar	209	105	5	1130	72	210	3:28	11%	
Apr	170	130	30	520	80	215	2:27	7%	
May	154	120	10	640	98	181	1:24	4%	
Jun	141	113	20	520	86	164	2:26	8%	
Jul	148	124	40	464	84	200	1:29	3%	
Aug	177	156	52	480	115	182	2:27	7%	
Sep	138	124	40	400	79	165	0:24	0%	
Oct	366	150	20	3492	106	219	6:28	21%	
Nov	257	201	10	1480	122	265	4:26	15%	
Dec	355	180	4	2770	92	300	5:28	18%	
All Data	207	128	4	3492	84	200	31:322	10%	

Lompico Creek at Carrol Avenue (07528)

Geometric Mean Objective (200 MPN/100 mL)

There are not enough water quality data at the Lompico Creek station at Carrol Avenue to calculate the geometric mean. The most recent data available is from 2/2/2000 – 1/12/006. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 13 shows monthly fecal coliform concentrations for Lompico Creek at Carrol Avenue station from 2/2/2000 – 1/12/2006. Mean concentrations exceed the water quality objective in June and August.

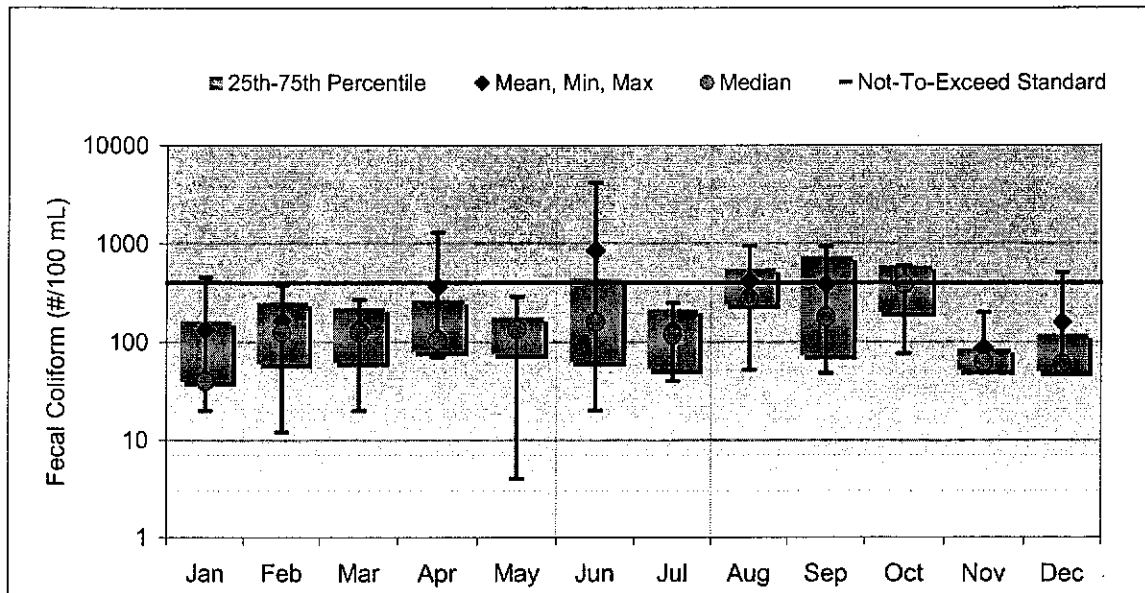


Figure 13. Lompico Creek Fecal Coliform at Carrol Avenue (#/100 mL) and Water Contact Maximum Water Quality Objective (February 2, 2000 – January 12, 2006)

Table 13 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 16% of the time.

Table 13. Lompico Creek Fecal Coliform at Carrol Avenue Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 2/2/2000 to 1/12/2006)										
Month	Mean	Median	Min	Max	25th	75th	XS.Count	XS%		
Jan	132	40	20	455	40	165	1:7	14%		
Feb	163	125	12	380	60	256	0:6	0%		
Mar	140	125	20	270	63	225	0:6	0%		
Apr	365	104	70	1300	80	270	1:5	20%		
May	135	134	4	290	75	180	0:6	0%		
Jun	848	160	20	4180	63	445	2:6	33%		
Jul	134	117	40	250	53	216	0:6	0%		
Aug	416	276	52	947	240	564	2:5	40%		
Sep	385	180	48	930	73	748	2:6	33%		
Oct	373	388	76	600	200	600	2:5	40%		
Nov	86	63	50	200	51	85	0:6	0%		
Dec	158	60	48	510	50	120	1:5	20%		
All Data	273	120	4	4180	50	270	11:69	16%		

San Lorenzo River at Highlands Park (149)

Geometric Mean Objective (200 MPN/100 mL)

Figure 14 below shows monthly fecal coliform concentrations for San Lorenzo River at the Highlands Park station from 2/15/2000 to 9/6/2005. The mean concentrations do not exceed the water quality objective.

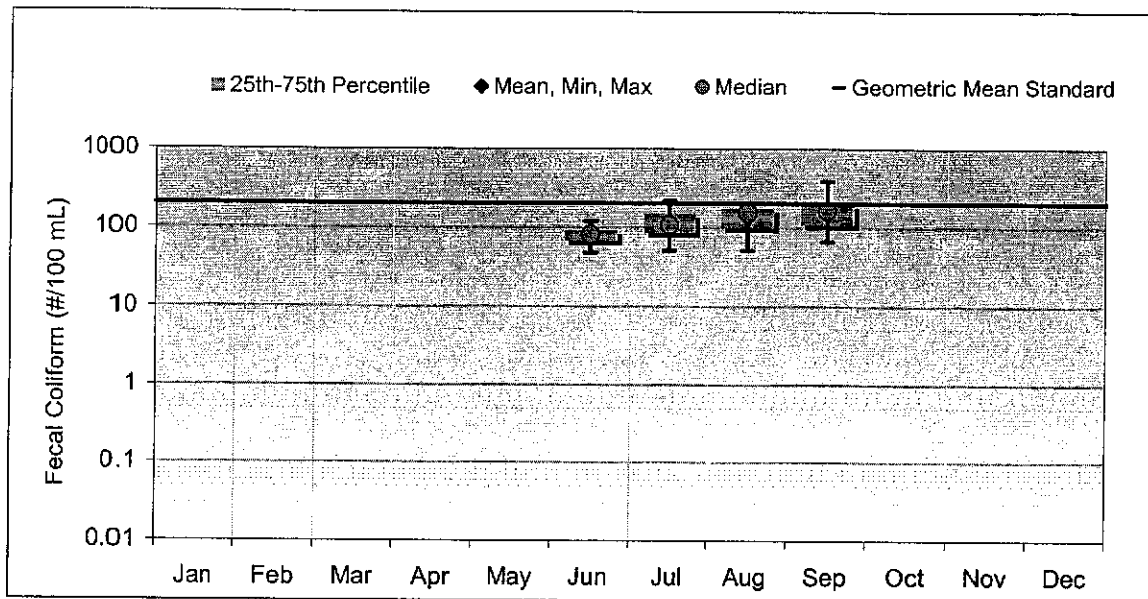


Figure 14. San Lorenzo River Fecal Coliform at Highlands Park (#/100 mL) and Water Contact Recreation Geometric Mean Water Quality Objective (February 15, 2000 – September 6, 2005)

Table 14 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 11% of the time.

Table 14. San Lorenzo River Fecal Coliform at Highlands Park Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Geometric Mean Objective

Summary Statistics (Data: 2/15/2000 to 9/6/2005)								
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	0	0	0	0	0	0	0:0	n/a
May	0	0	0	0	0	0	0:0	n/a
Jun	83	81	48	120	68	91	0:9	0%
Jul	115	107	51	218	85	151	1:24	4%
Aug	139	155	51	205	99	176	2:28	7%
Sep	171	164	66	387	108	204	6:23	26%
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
All Data	135	128	48	387	88	175	9:84	11%

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 15 shows monthly fecal coliform concentrations for San Lorenzo River at Highlands Park station from 2/15/2000 to 9/6/2005. Mean concentrations do not exceed the water quality objective.

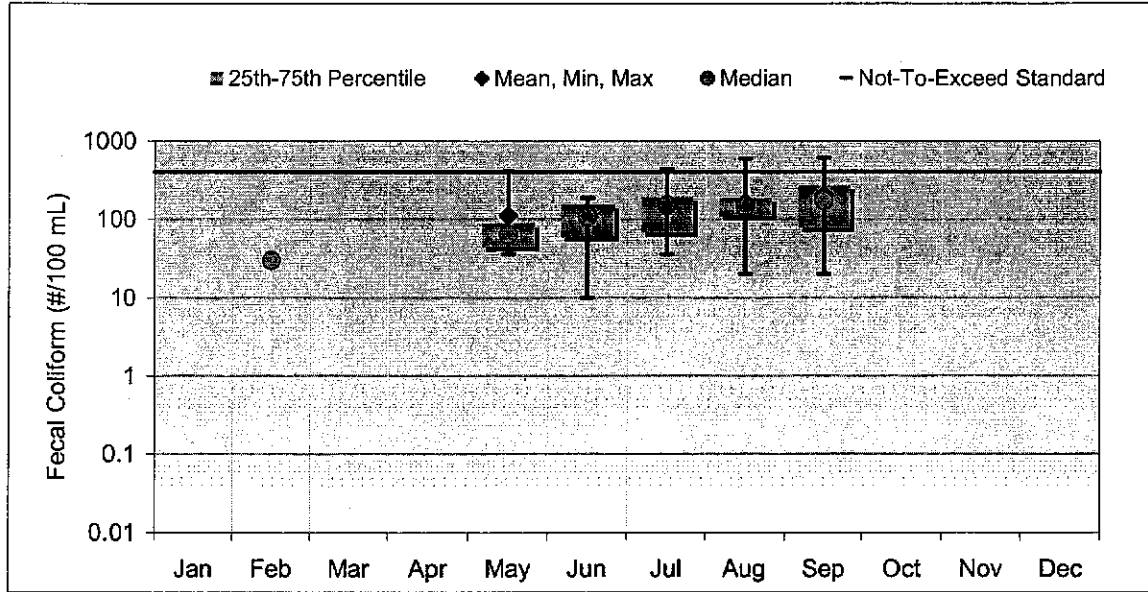


Figure 15. San Lorenzo River Fecal Coliform at Highlands Park (#/100 mL) and Water Contact Maximum Water Quality Objective (February 15, 2000 – September 6, 2005)

Table 15 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 5% of the time.

Table 15. San Lorenzo River Fecal Coliform at Highlands Park Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 2/15/2000 to 9/6/2005)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	0	0	0	0	0	0	0:0	n/a
Feb	30	30	30	30	30	30	0:1	0%
Mar	0	0	0	0	0	0	0:0	n/a
Apr	0	0	0	0	0	0	0:0	n/a
May	112	64	36	412	45	90	1:7	14%
Jun	107	108	10	188	60	156	0:25	0%
Jul	158	151	36	440	69	195	1:26	4%
Aug	163	144	20	596	110	189	1:28	4%
Sep	201	173	20	612	78	272	2:24	8%
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
All Data	153	140	10	612	70	184	5:111	5%

San Lorenzo River above Love Creek (180)

Geometric Mean Objective (200 MPN/100 mL)

Figure 16 below shows monthly fecal coliform concentrations for San Lorenzo River above Love Creek station from 1/4/2000 to 1/23/2006. The mean concentrations do not exceed the water quality objective.

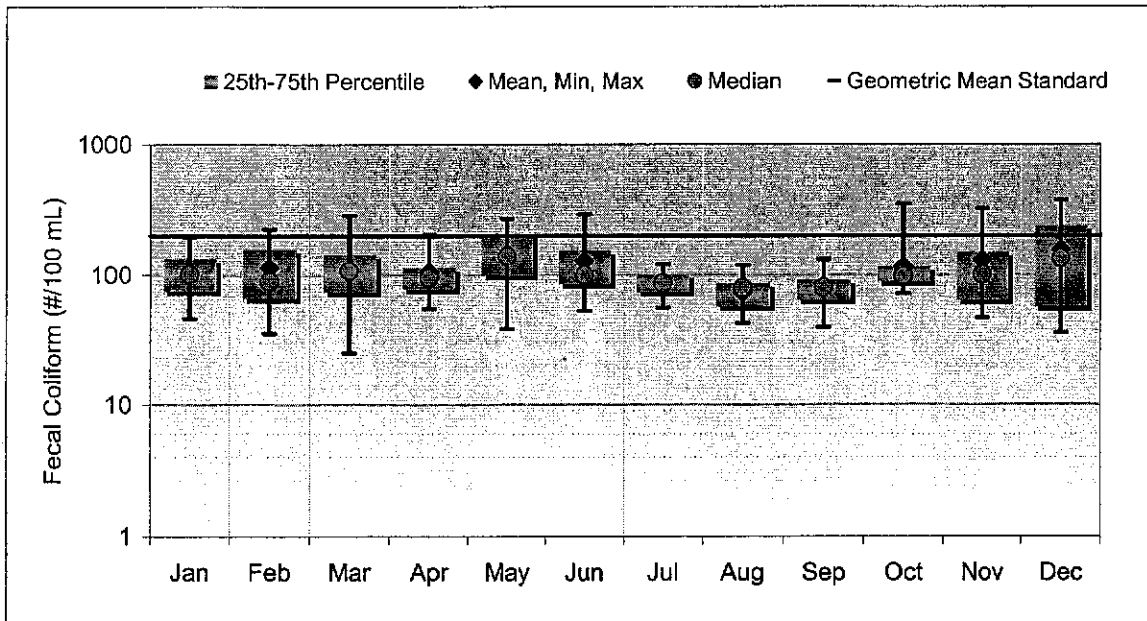


Figure 16. San Lorenzo River Fecal Coliform Above Love Creek (#/100 mL) and Water Contact Recreation Geometric Mean Water Quality Objective (January 4, 2000 – January 23, 2006)

Table 16 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 11% of the time.

Table 14. San Lorenzo River Fecal Coliform Above Love Creek Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Geometric Mean Objective

Summary Statistics (Data: 1/4/2000 to 1/23/2006)									
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%	
Jan	105	102	46	195	75	134	0.24	0%	
Feb	113	90	35	225	66	160	3.19	16%	
Mar	112	108	25	287	73	145	1.25	4%	
Apr	105	95	54	205	77	115	2.28	7%	
May	146	139	38	270	99	208	7.24	29%	
Jun	127	99	53	293	85	155	4.25	16%	
Jul	88	86	55	121	73	101	0.27	0%	
Aug	73	79	42	118	57	86	0.25	0%	
Sep	80	80	39	132	64	92	0.20	0%	
Oct	115	99	72	352	89	116	2.26	8%	
Nov	130	100	46	323	63	150	5.25	20%	
Dec	157	134	36	377	57	240	9.27	33%	
All Data	113	94	25	377	71	132	33:295	11%	

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 17 shows monthly fecal coliform concentrations for San Lorenzo River above Love Creek station from 1/4/2000 to 1/23/2006. Mean concentrations do not exceed the water quality objective.

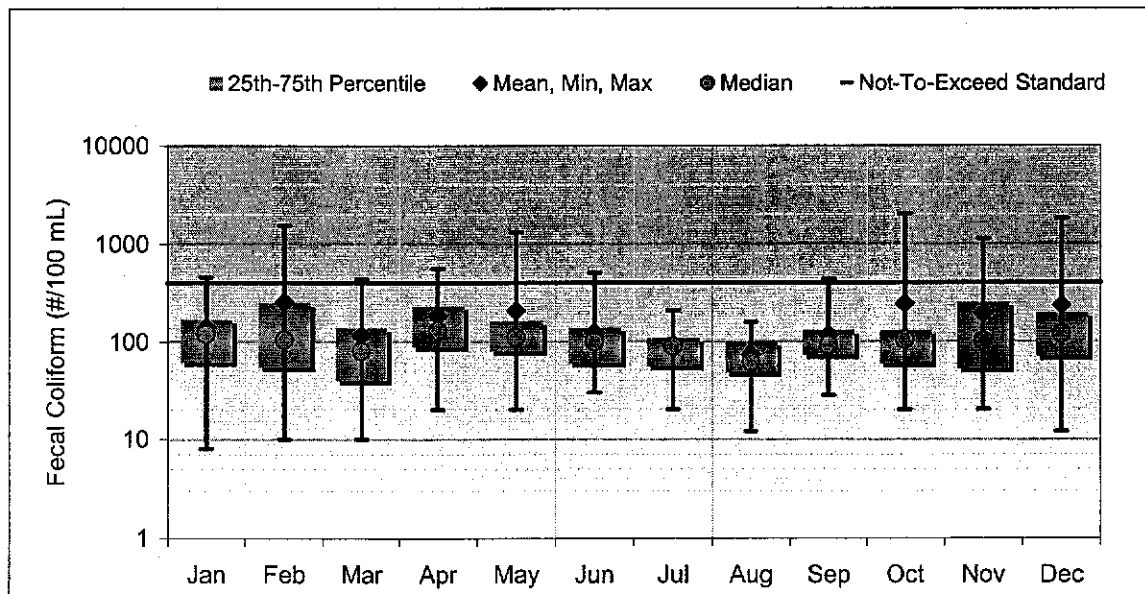


Figure 17. San Lorenzo River Fecal Coliform Above Love Creek (#/100 mL) and Water Contact Maximum Water Quality Objective (January 4, 2000 – January 23, 2006)

Table 17 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 8% of the time.

Table 17. San Lorenzo River Fecal Coliform Above Love Creek Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 1/4/2000 to 1/23/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	141	120	8	460	62	171	1:31	3%
Feb	258	105	10	1540	55	255	5:24	21%
Mar	116	80	10	440	40	140	2:27	7%
Apr	185	130	20	560	90	235	4:27	15%
May	208	111	20	1320	80	165	3:24	13%
Jun	124	100	30	510	60	140	1:27	4%
Jul	91	90	20	210	56	109	0:27	0%
Aug	74	62	12	160	49	100	0:26	0%
Sep	117	92	28	440	73	132	1:27	4%
Oct	245	105	20	2000	60	132	2:26	8%
Nov	195	102	20	1130	53	255	3:26	12%
Dec	236	120	12	1800	71	200	3:27	11%
All Data	164	100	8	2000	60	150	25:319	8%

San Lorenzo River at Pacific Avenue, Brookdale (241)

Geometric Mean Objective (200 MPN/100 mL)

Figure 18 below shows monthly fecal coliform concentrations for San Lorenzo River at Pacific Avenue, Brookdale station from 7/11/2000 to 9/6/2005. The mean concentrations do not exceed the water quality objective.

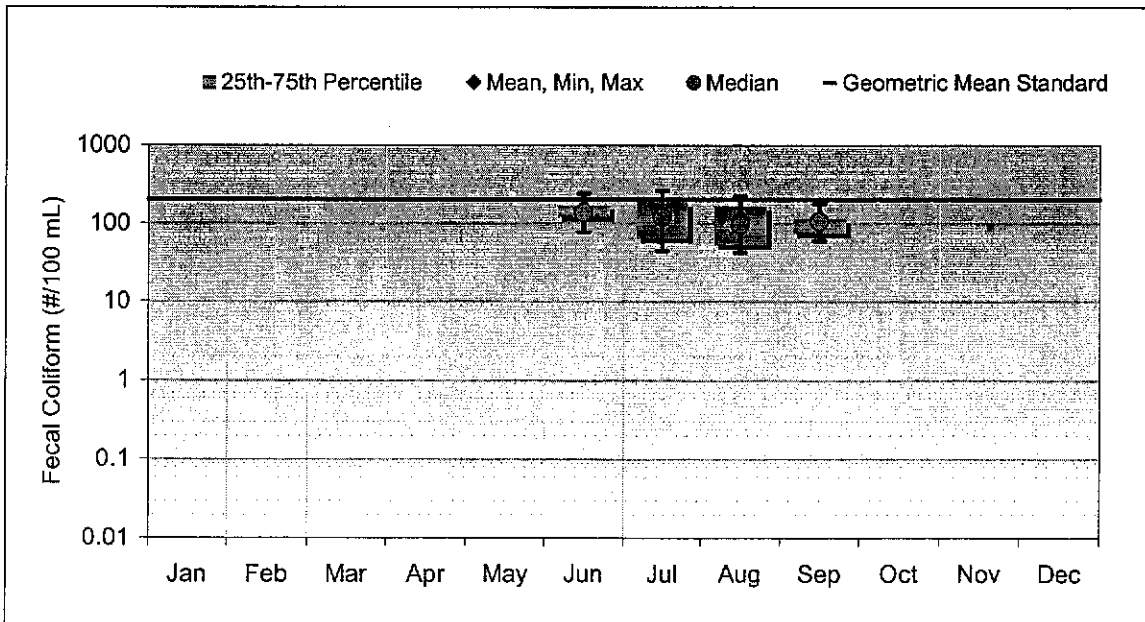


Figure 18. San Lorenzo River Fecal Coliform at Pacific Avenue, Brookdale (#/100 mL) and Water Contact Recreation Geometric Mean Water Quality Objective (July 11, 2000 – September 6, 2005)

Table 18 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 18% of the time.

Table 18. San Lorenzo River Fecal Coliform at Pacific Avenue, Brookdale Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Geometric Mean Objective

Summary Statistics (Data: 7/11/2000 to 9/6/2005)								
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	0	0	0	0	0	0	0:0	n/a
May	0	0	0	0	0	0	0:0	n/a
Jun	150	137	77	243	120	172	2:8	25%
Jul	130	121	44	262	64	187	5:23	22%
Aug	112	95	42	224	53	168	5:26	19%
Sep	102	107	60	177	75	115	0:11	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
All Data	121	111	42	262	63	173	12:68	18%

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 19 shows monthly fecal coliform concentrations for San Lorenzo River at Pacific Avenue, Brookdale station from 7/11/2000 to 9/6/2005. Mean concentrations do not exceed the water quality objective.

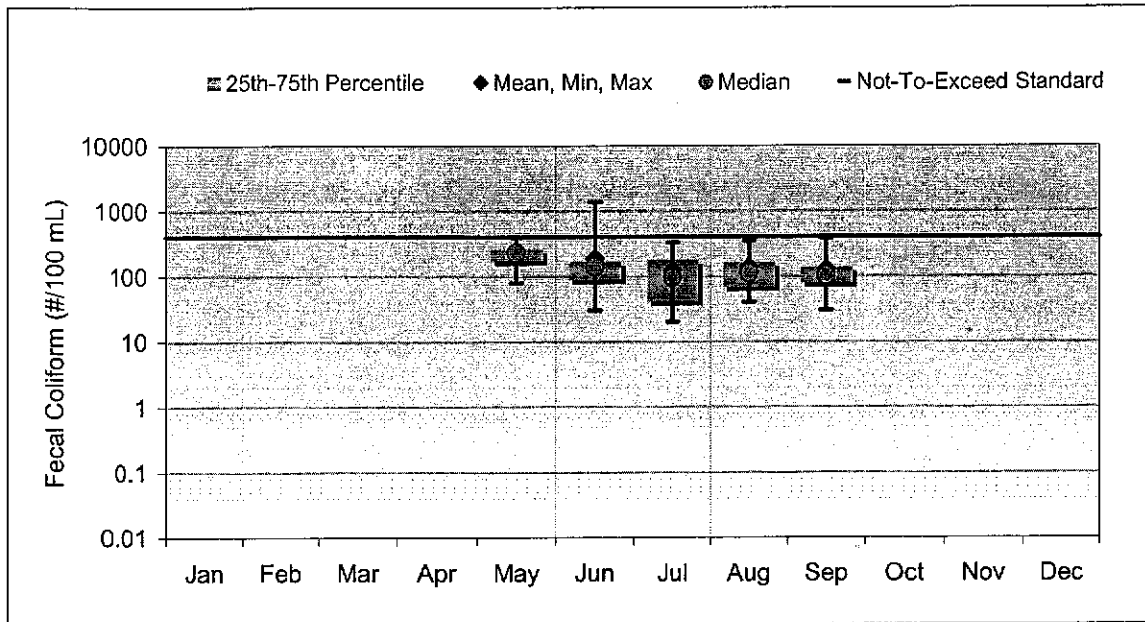


Figure 19. San Lorenzo River Fecal Coliform at Pacific Avenue, Brookdale (#/100 mL) and Water Contact Maximum Water Quality Objective (July 11, 2000 – September 6, 2005)

Table 19 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 1% of the time.

Table 19. San Lorenzo River Fecal Coliform at Pacific Avenue, Brookdale Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 7/11/2000 to 9/6/2005)								
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	0	0	0	0	0	0	0:0	n/a
May	228	230	80	400	174	262	0:6	0%
Jun	188	140	30	1390	90	169	1:24	4%
Jul	123	96	20	328	42	181	0:26	0%
Aug	137	112	40	348	69	166	0:27	0%
Sep	127	102	30	380	79	138	0:18	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
All Data	149	124	20	1390	68	172	1:101	1%

San Lorenzo River at River Street (245)

Geometric Mean Objective (200 MPN/100 mL)

Figure 20 below shows monthly fecal coliform concentrations for San Lorenzo River at River Street station from 1/4/2000 to 1/23/2006. The mean concentrations exceed the water quality objective during December.

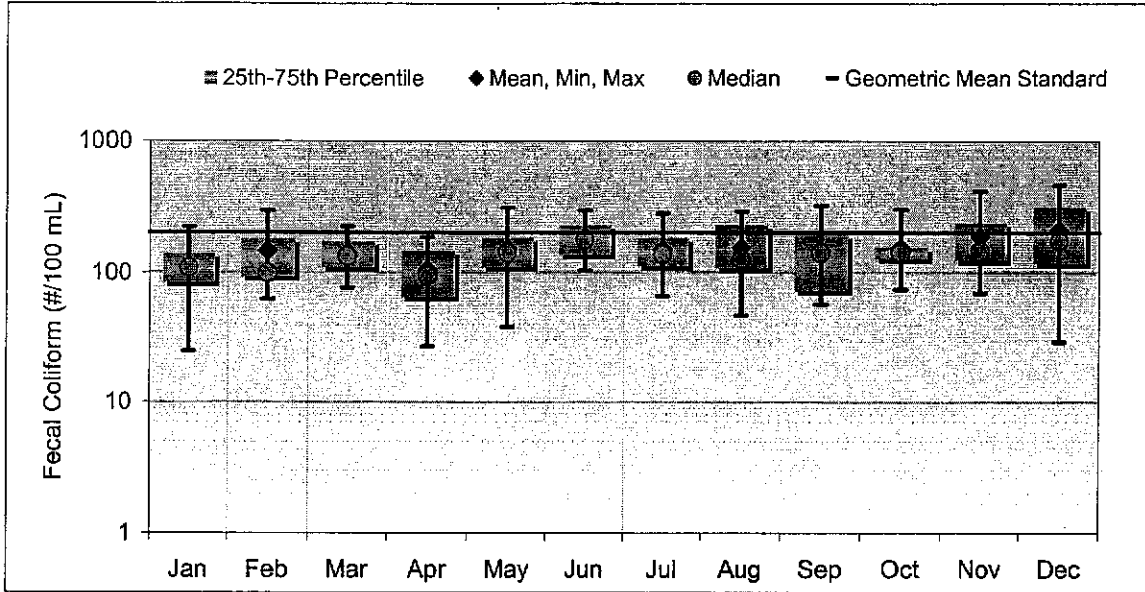


Figure 20. San Lorenzo River Fecal Coliform at River Street (#/100 mL) and Water Contact Recreation Geometric Mean Water Quality Objective (January 4, 2000 to January 23, 2006)

Table 20 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 22% of the time.

Table 20. San Lorenzo River Fecal Coliform at River Street Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Geometric Mean Objective

Summary Statistics (Data: 1/4/2000 to 1/23/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	111	108	25	222	84	139	2:25	8%
Feb	145	99	62	296	93	181	4:19	21%
Mar	141	133	76	224	110	173	2:22	9%
Apr	105	94	27	185	64	147	0:26	0%
May	151	141	38	310	110	184	5:24	21%
Jun	185	177	103	297	137	232	10:23	43%
Jul	148	137	66	281	112	184	4:25	16%
Aug	153	127	46	291	108	231	9:31	29%
Sep	147	140	56	321	72	195	5:22	23%
Oct	153	141	74	301	128	156	4:24	17%
Nov	187	146	69	416	124	240	9:25	36%
Dec	210	173	29	464	117	316	10:28	36%
All Data	153	140	25	464	99	184	64:294	22%

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 21 shows monthly fecal coliform concentrations for San Lorenzo River at River Street station from 1/4/2000 to 1/23/2006. Mean concentrations do not exceed the water quality objective.

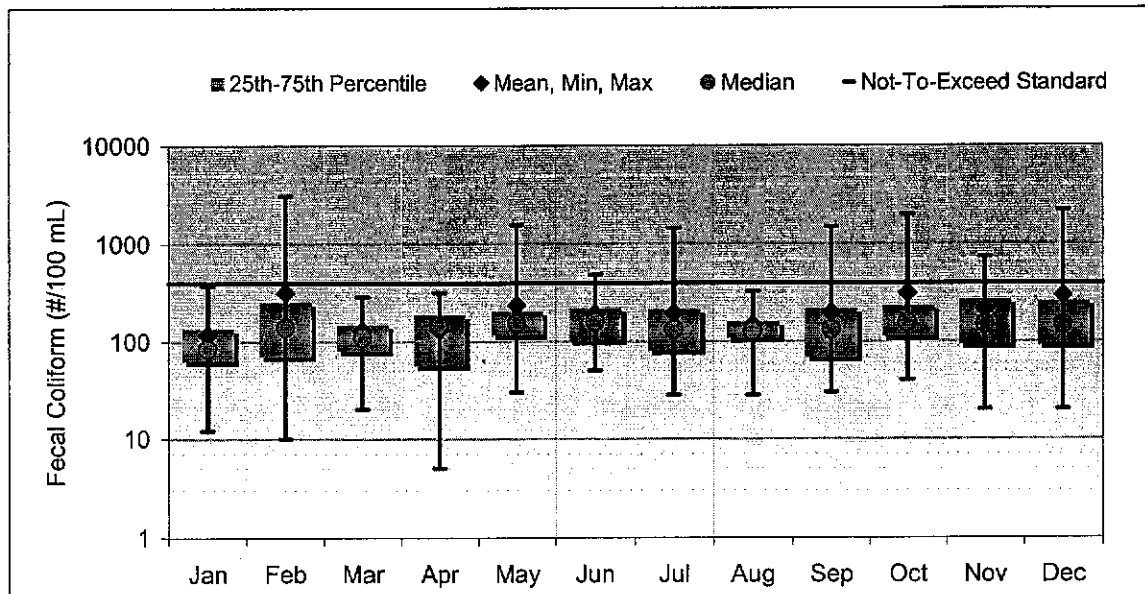


Figure 21. San Lorenzo River Fecal Coliform at River Street (#/100 mL) and Water Contact Maximum Water Quality Objective (January 4, 2000 – January 23, 2006)

Table 21 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 8% of the time.

Table 21. San Lorenzo River Fecal Coliform at River Street Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 1/4/2000 to 1/23/2006)									
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%	
Jan	117	84	12	372	63	137	0:32	0%	
Feb	317	140	10	3100	71	258	4:24	17%	
Mar	128	110	20	290	80	150	0:25	0%	
Apr	133	148	5	320	56	190	0:27	0%	
May	238	155	30	1570	118	208	3:24	13%	
Jun	193	160	50	490	102	222	3:27	11%	
Jul	195	133	28	1452	80	216	2:30	7%	
Aug	146	128	28	328	108	160	0:29	0%	
Sep	198	132	30	1500	68	220	2:25	8%	
Oct	314	156	40	2000	113	235	4:26	15%	
Nov	215	150	20	740	94	270	4:27	15%	
Dec	297	148	20	2210	92	260	3:29	10%	
All Data	205	136	5	3100	80	220	25:325	8%	

Two Bar Creek at San Lorenzo River (290)

Geometric Mean Objective (200 MPN/100 mL)

There are not enough water quality data at the Two Bar Creek at San Lorenzo Station to calculate the geometric mean. The most recent data available is from 11/29/2001 – 1/12/2006. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 22 shows monthly fecal coliform concentrations for Two Bar Creek at San Lorenzo River station from 11/29/2001 – 1/12/2006. Mean concentrations exceed the water quality objective September through December.

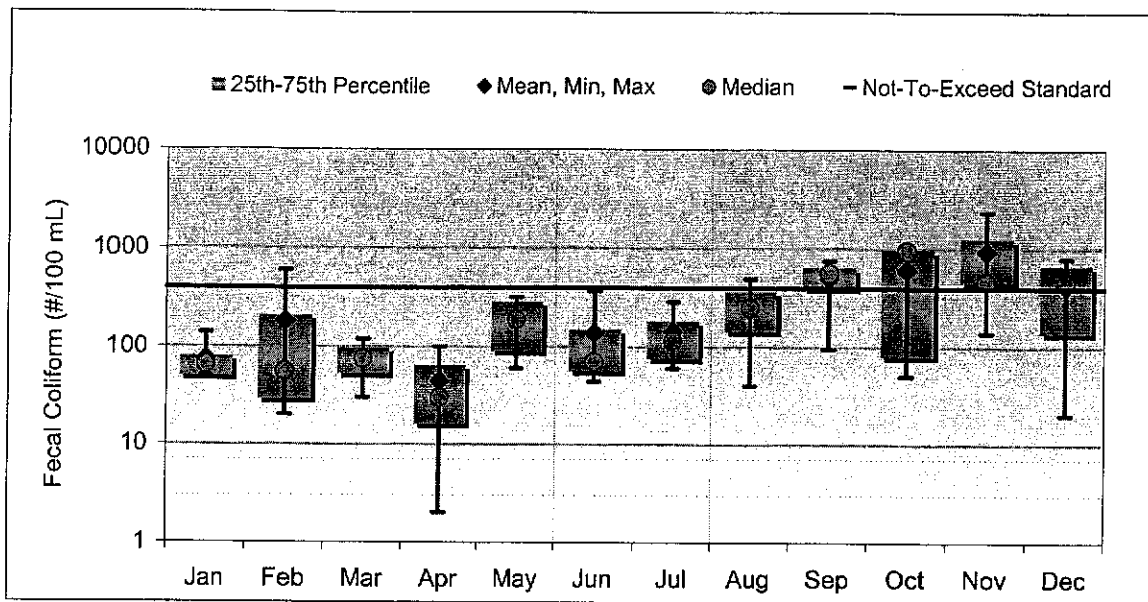


Figure 22. Two Bar Creek Fecal Coliform at San Lorenzo River (#/100 mL) and Water Contact Maximum Water Quality Objective (November 29, 2001 – January 12, 2006)

Table 22 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 30% of the time.

Table 22. Two Bar Creek Fecal Coliform at San Lorenzo River Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 11/29/2001 to 1/12/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS Count	XS%
Jan	75	65	50	140	50	80	0:6	0%
Feb	183	56	20	600	29	210	1:4	25%
Mar	75	75	30	120	53	98	0:4	0%
Apr	44	30	2	100	16	65	0:3	0%
May	190	190	60	320	90	290	0:4	0%
Jun	139	70	44	370	56	153	0:4	0%
Jul	145	115	60	290	75	185	0:4	0%
Aug	263	252	40	496	146	374	1:3	33%
Sep	504	570	95	760	405	653	4:6	67%
Oct	614	960	50	990	80	990	3:5	60%
Nov	940	470	140	2350	470	1270	4:5	80%
Dec	423	460	20	800	140	690	3:6	50%
All Data	327	115	2	2350	60	490	16:54	30%

San Lorenzo River above Two Bar Creek (300)

Geometric Mean Objective (200 MPN/100 mL)

There are not enough water quality data at the San Lorenzo River above Two Bar Creek Station to calculate the geometric mean. The most recent data available is from 11/06/2000 – 1/12/2006. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 23 shows monthly fecal coliform concentrations for San Lorenzo River at Two Bar Creek station from 11/06/2000 – 1/12/2006. Mean concentrations exceed the water quality objective in July and November.

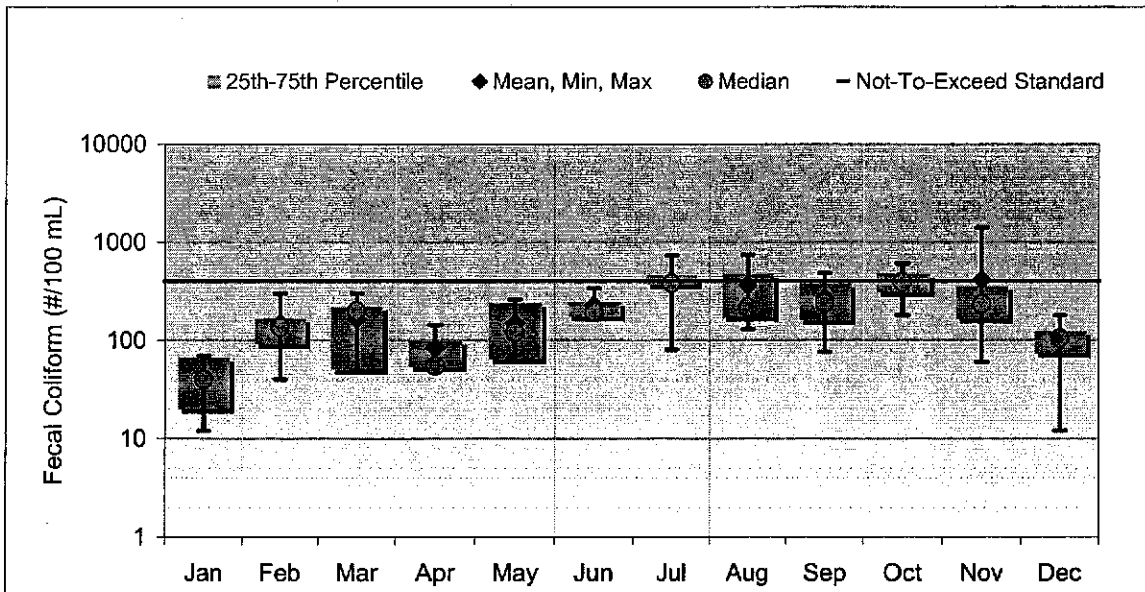


Figure 23. San Lorenzo River Fecal Coliform at Two Bar Creek (#/100 mL) and Water Contact Maximum Water Quality Objective (November 6, 2000 – January 12, 2006)

Table 23 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 14% of the time.

Table 23. San Lorenzo River at Two Bar Creek Fecal Coliform Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 11/6/2000 to 1/12/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS.Count	XS%
Jan	42	40	12	70	20	68	0:6	0%
Feb	148	136	40	300	92	170	0:5	0%
Mar	164	200	50	300	50	220	0:5	0%
Apr	84	55	52	144	54	100	0:3	0%
May	149	120	60	260	64	240	0:5	0%
Jun	226	196	172	340	175	246	0:4	0%
Jul	404	380	80	730	370	460	2:5	40%
Aug	362	216	130	740	173	478	1:3	33%
Sep	267	240	76	488	160	380	2:6	33%
Oct	395	395	180	610	308	483	2:4	50%
Nov	413	235	60	1410	165	358	1:6	17%
Dec	100	105	12	180	74	125	0:6	0%
All Data	225	171	12	1410	70	298	8:58	14%

Carbonera Creek at Branciforte Creek (0110)

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

There are not enough water quality data at the Carbonera Creek station from 10/19/2000 to 06/15/2006 to calculate the geometric mean. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water Quality Objective (400 MPN/100 mL)

Figure 24 below shows monthly fecal coliform concentrations for Carbonera Creek at the Branciforte Creek confluence from 10/19/2000 to 06/15/2006. The means do not exceed the water quality objective. However, as shown in the figure below, there are not enough data to determine impairment conditions, because many months either had no sample or only one sample taken.

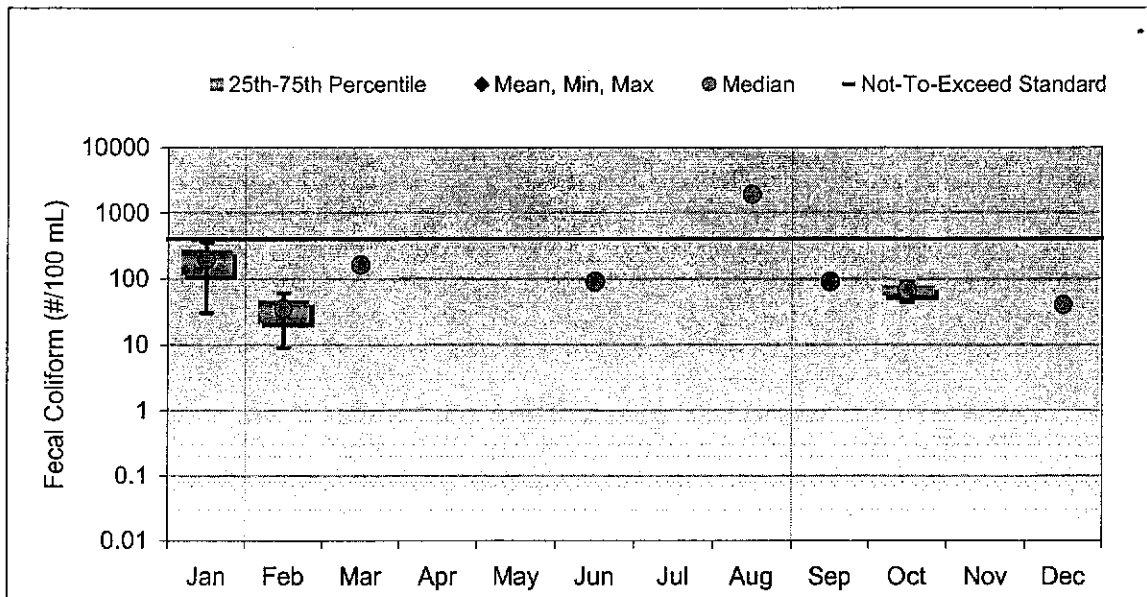


Figure 24. Carbonera Creek at Branciforte Creek Fecal Coliform (#/100 mL) and Water Contact Recreation Maximum Water Quality Objective (October 19, 2000 – February 26, 2002)

Table 24 below provides summary statistics of the above figure. Overall, the water quality objective was exceeded 9% of the time. There are not enough data to determine impairment conditions, because many months had either no sample or only one sample taken.

Table 24. Carbonera Creek Fecal Coliform at Branciforte Creek Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 10/19/2000 to 6/15/2006)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	195	195	30	360	113	278	0:2	0%
Feb	35	35	9	60	22	47	0:2	0%
Mar	160	160	160	160	160	160	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	90	90	90	90	90	90	0:1	0%
Jul	0	0	0	0	0	0	0:0	n/a
Aug	1900	1900	1900	1900	1900	1900	1:1	100%
Sep	90	90	90	90	90	90	0:1	0%
Oct	67	67	44	90	56	79	0:2	0%
Nov	0	0	0	0	0	0	0:0	n/a
Dec	40	40	40	40	40	40	0:1	0%
All Data	261	90	9	1900	42	125	1:11	9%

Carbonera Creek at Highway 17

Geometric Mean *E. coli* Water Quality Criteria (126 MPN/100 mL)

There are not enough water quality data at the Carbonera Creek station from 1/6/2005 to 2/17/2005 to calculate the geometric mean. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water *E. coli* Quality Criteria (235 MPN/100 mL)

Figure 25 below shows monthly *E. coli* concentrations for Carbonera Creek at Highway 17 from 1/6/2005 to 2/17/2005. The mean concentrations do not exceed the water quality criteria. However, as shown in the figure below, there are not enough data to fully determine impairment conditions because many months had no samples. The month of January in 2005 had four samples and the month of February in 2005 had two samples.

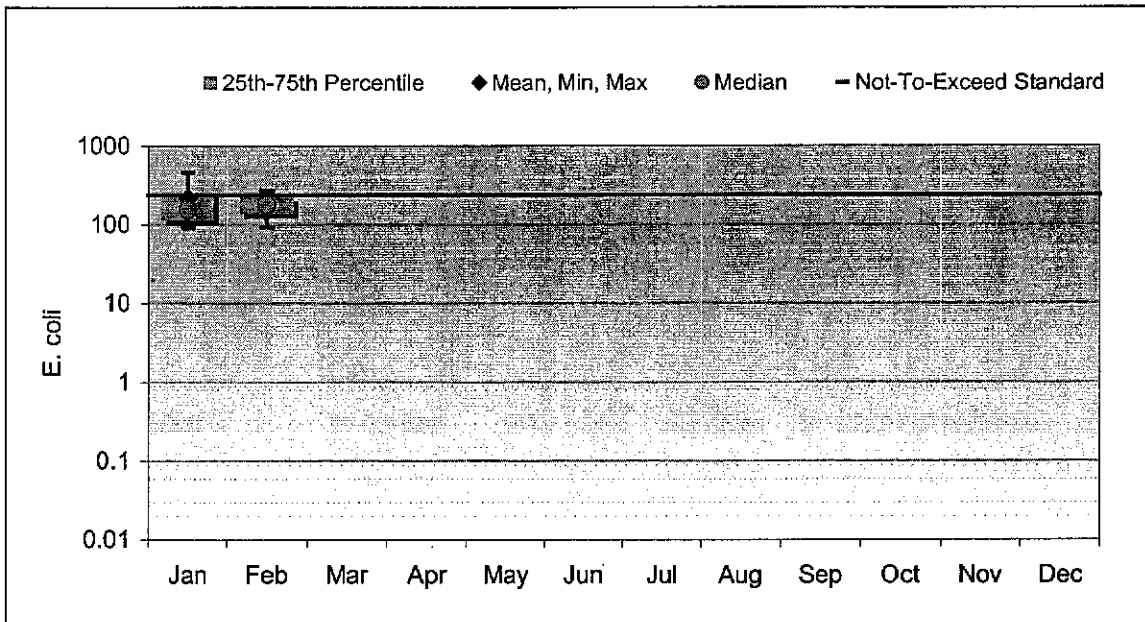


Figure 25. Carbonera Creek at Highway 17 (#/100 mL) and *E. coli* Water Contact Recreation Maximum Water Quality Criteria (January 06, 2005- February 17, 2005)

Table 25 below provides summary statistics of the above figure. Based on two months of sampling, the water quality criterion was exceeded 33% of the time. There are not enough data to determine impairment conditions for all months, but the impairment occurred in January and February.

Table 25. Carbonera Creek *E. coli* at Highway 17 Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Criteria

Summary Statistics (Data: 1/6/2005 to 2/17/2005)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	150	100	50	300	100	200	4	33%
Feb	150	100	50	300	100	200	2	33%
Mar								
Apr								
May								
Jun								
Jul								
Aug								
Sep								
Oct								
Nov								
Dec								

Jan	215	155	91	460	113	258	1:4	25%
Feb	182	182	93	270	137	226	1:2	50%
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	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
All Data	204	155	91	460	100	250	2:6	33%

Carbonera Creek above Camp Evers Creek

Geometric Mean *E. coli* Water Quality Criteria (126 MPN/100 mL)

There are not enough water quality data at this station from 1/6/2005 to 2/17/2005 to calculate the geometric mean. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water *E. coli* Quality Criteria (235 MPN/100 mL)

Figure 26 below shows monthly *E. coli* concentrations for Carbonera Creek above Camp Evers Creek from 1/6/2005 to 2/17/2005. The mean concentrations do not exceed the water quality criteria. However, as shown in the figure below, there are not enough data to determine impairment conditions, because many months had no samples. The month of January in 2005 had four samples and the month of February in 2005 had two samples.

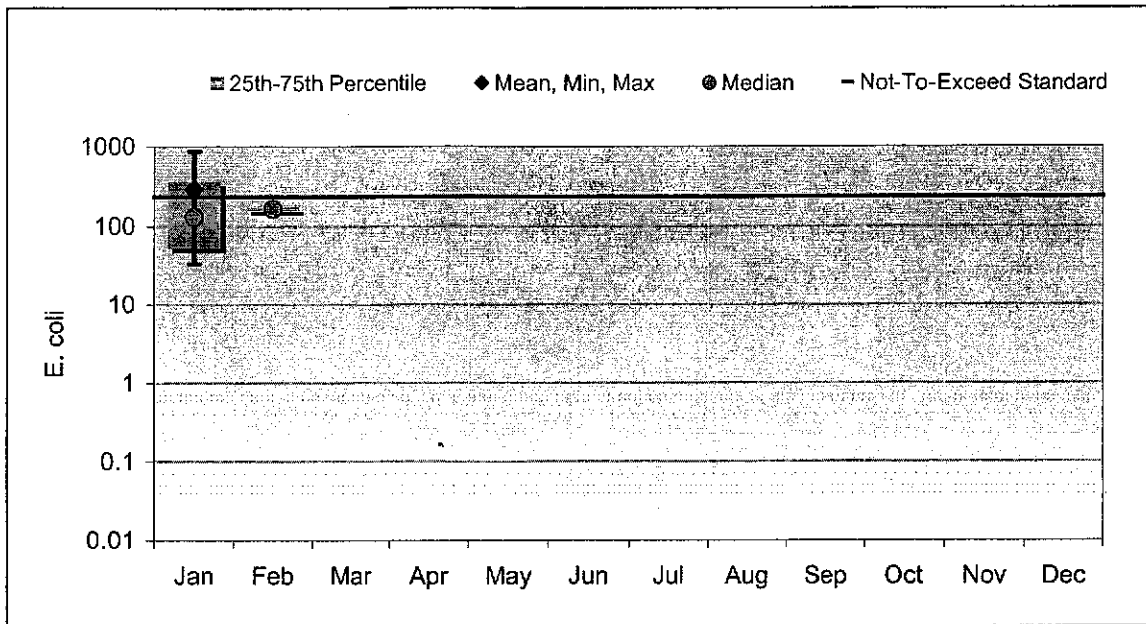


Figure 26. Carbonera Creek above Camp Evers Creek (#/100 mL) and *E. coli* Water Contact Recreation Maximum Water Quality Criteria (January 06, 2005-February 17, 2005)

Table 26 below provides summary statistics of the above figure. Based on two months of sampling, the water quality criterion was exceeded 17% of the time. There are not enough data to determine impairment conditions for all months, but the impairment occurred in January.

Table 26. Carbonera Creek *E. coli* above Camp Evers Creek Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Criteria

Summary Statistics (Data: 1/6/2005 to 2/17/2005)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	291	130	33	870	53	368	1:4	25%
Feb	165	165	150	180	158	173	0:2	0%
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	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
All Data	249	165	33	870	82	195	1:6	17%

Carbonera Creek at Disc Drive

Geometric Mean *E. coli* Water Quality Criteria (126 MPN/100 mL)

There are not enough water quality data at this station from 1/6/2005 to 2/17/2005 to calculate the geometric mean. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water *E. coli* Quality Criteria (235 MPN/100 mL)

Figure 27 below shows monthly *E. coli* concentrations for Carbonera Creek above Camp Evers Creek from 1/6/2005 to 2/17/2005. The mean concentrations do not exceed the water quality criteria. However, as shown in the figure below, there are not enough data to determine impairment conditions, because many months had no samples. The month of January in 2005 had four samples and the month of February in 2005 had two samples.

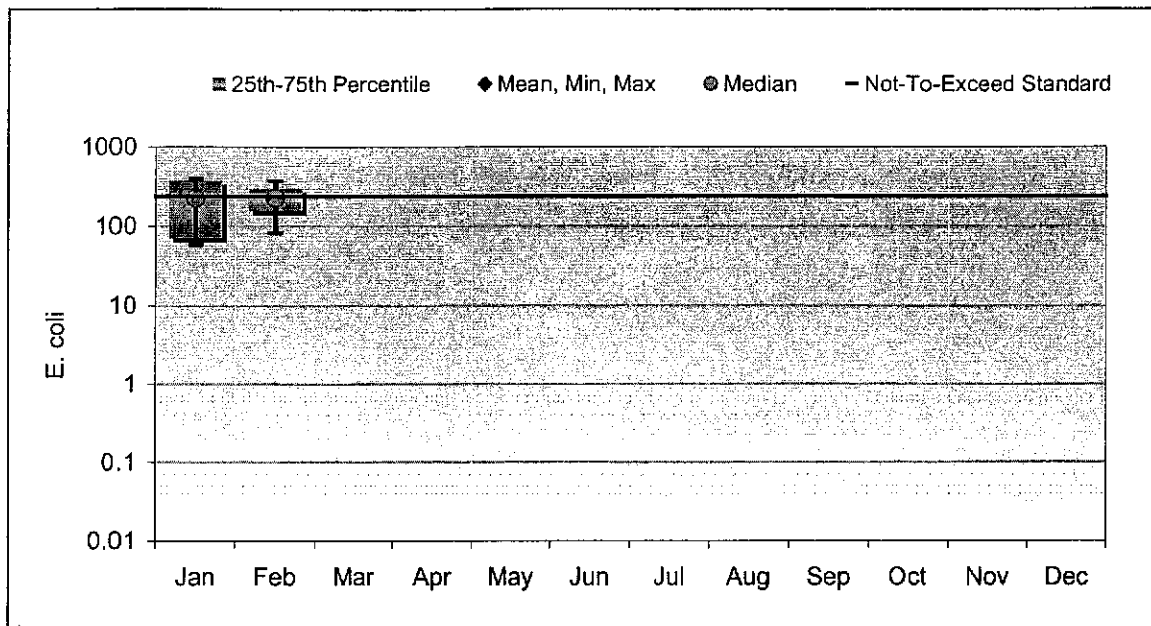


Figure 27. Carbonera Creek at Disc Drive (#/100 mL) and Water Contact Recreation Maximum Water Quality Criteria (January 06, 2005- February 17, 2005)

Table 27 below provides summary statistics of the above figure. Based on two months of sampling, the water quality criterion was exceeded 50% of the time. There are not enough data to determine impairment conditions for all months, but the impairment occurred in January and February.

Table 27. Carbonera Creek *E. coli* at Disc Drive Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Criteria

Summary Statistics (Data: 1/6/2005 to 2/17/2005)								
Month	Mean	Median	Min	Max	25th	75th	XS-Count	XS%
Jan	223	223	57	390	71	375	2:4	50%
Feb	226	226	82	370	154	298	1:2	50%
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	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
All Data	224	226	57	390	77	370	3:6	50%

Camp Evers Creek at Carbonera Creek

Geometric Mean *E. coli* Water Quality Criteria (126 MPN/100 mL)

There are not enough water quality data at this station from 1/6/2005 to 2/17/2005 to calculate the geometric mean. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water *E. coli* Quality Criteria (235 MPN/100 mL)

Figure 28 below shows monthly *E. coli* concentrations for Carbonera Creek above Camp Evers Creek from 1/6/2005 to 2/17/2005. The mean concentrations do not exceed the water quality criteria. However, as shown in the figure below, there are not enough data to determine impairment conditions, because many months had no samples. The month of January in 2005 had four samples and the month of February in 2005 had two samples.

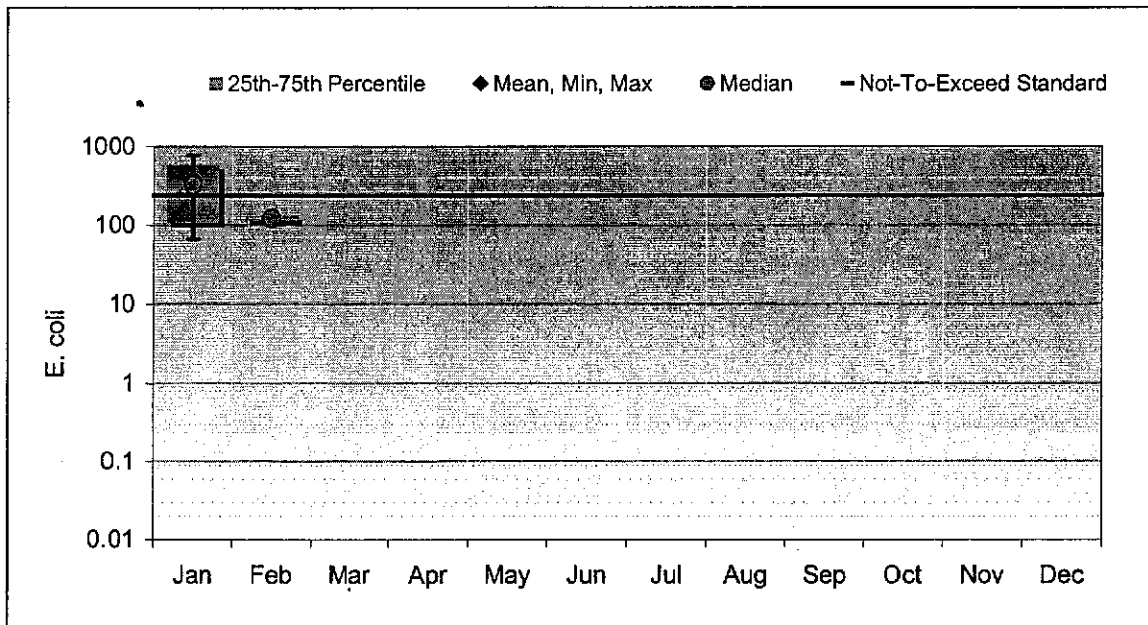


Figure 28. Camp Evers Creek at Carbonera Creek (#/100 mL) and Water Contact Recreation Maximum Water Quality Criteria (January 06, 2005- February 17, 2005)

Table 28 below provides summary statistics of the above figure. Based on two months of sampling, the water quality criterion was exceeded 33% of the time. There are not enough data to determine impairment conditions for all months, but the impairment occurred in January.

Table 28. Camp Evers Creek at Carbonera Creek Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Objective

Summary Statistics (Data: 1/6/2005 to 2/17/2005)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	369	320	66	770	107	583	2:4	50%
Feb	122	122	104	140	113	131	0:2	0%
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	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
All Data	287	130	66	770	108	425	2:6	33%

Camp Evers Creek at Whispering Pines

Geometric Mean *E. coli* Water Quality Criteria (126 MPN/100 mL)

There are not enough water quality data at this station from 1/6/2005 to 2/17/2005 to calculate the geometric mean. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water *E. coli* Quality Criteria (235 MPN/100 mL)

Figure 29 below shows monthly *E. coli* concentrations for Carbonera Creek above Camp Evers Creek from 1/6/2005 to 2/17/2005. The mean concentrations do not exceed the water quality criteria. However, as shown in the figure below, there are not enough data to determine impairment conditions, because many months had no samples. The month of January in 2005 had four samples and the month of February in 2005 had two samples.

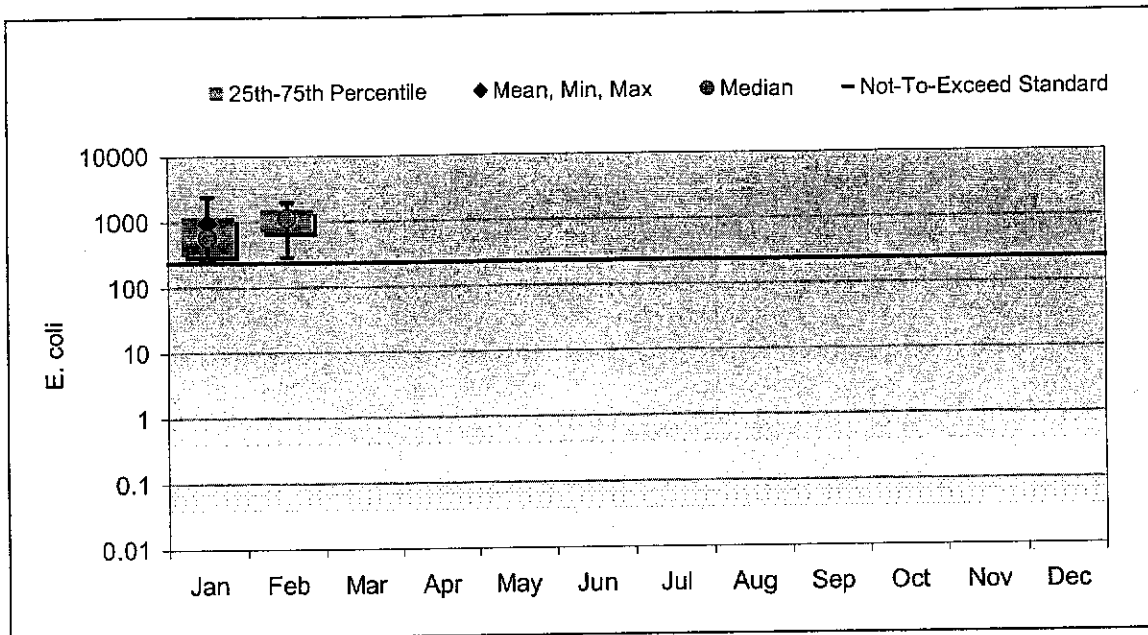


Figure 29. Camp Evers Creek at Whispering Pines (#/100 mL) and Water Contact Recreation Maximum Water Quality Criteria (January 06, 2005- February 17, 2005)

Table 29 below provides summary statistics of the above figure. Based on two months of sampling, the water quality criterion was exceeded 100% of the time. There are not enough data to determine impairment conditions for all months, but the impairment occurred in January and February.

Table 29. Camp Evers Creek at Whispering Pines Data Summary (#/100 mL) and Exceedance of Water Contact Recreation Maximum Criteria

Summary Statistics (Data: 1/6/2005 to 2/17/2005)								
Month	Mean	Median	Min	Max	25th	75th	XS Count	XS%
Jan	950	575	250	2400	310	1215	4:4	100%
Feb	1145	1145	290	2000	718	1573	2:2	100%
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	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
All Data	1015	575	250	2400	300	1705	6:6	100%

Camp Evers Creek at Cold Stream Way

Geometric Mean *E. coli* Water Quality Criteria (126 MPN/100 mL)

There are not enough water quality data at this station from 1/6/2005 to 2/17/2005 to calculate the geometric mean. No months have the minimum of five samples needed to calculate geometric means.

Maximum Water *E. coli* Quality Criteria (235 MPN/100 mL)

Figure 30 below shows monthly *E. coli* concentrations for Carbonera Creek above Camp Evers Creek from 1/6/2005 to 2/17/2005. The mean concentrations do not exceed the water quality criteria. However, as shown in the figure below, there are not enough data to determine impairment conditions, because many months either had no samples. The month of January in 2005 had four samples and the month of February in 2005 had two samples.

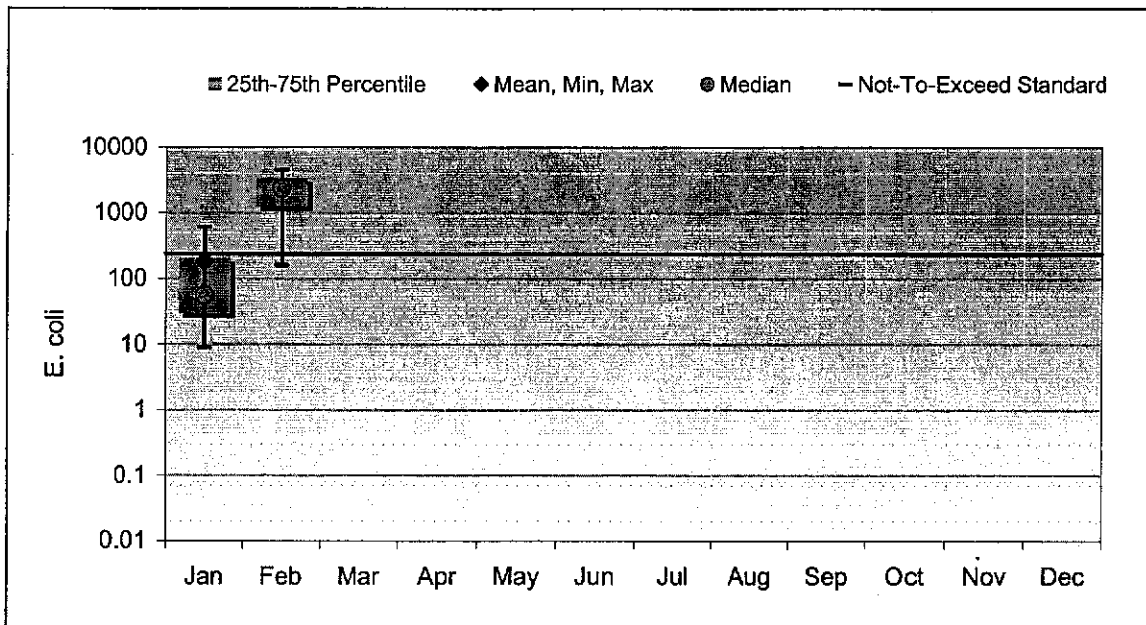


Figure 30. Camp Evers Creek at Cold Stream Way (#/100 mL) and Water Contact Recreation Maximum Water Quality Criteria (January 06, 2005- February 17, 2005)

Table 30 below provides summary statistics of the above figure. Based on two months of sampling, the water quality criterion was exceeded 33% of the time. There are not enough data to determine impairment conditions for all months, but the impairment occurred in January and February.

Table 30. Camp Evers Creek at Cold Stream Way (#/100 mL) and Water Contact Recreation Maximum Water Quality Criteria (January 06, 2005- February 17, 2005)

Summary Statistics (Data: 1/6/2005 to 2/17/2005)								
Month	Mean	Median	Min	Max	25th	75th	XS:Count	XS%
Jan	183	56	9	610	29	209	1:4	25%
Feb	2330	2330	160	4500	1245	3415	1:2	50%
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	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
All Data	898	118	9	4500	46	498	2:6	33%

APPENDIX C. MICROBIAL SOURCE TRACKING DATA

This appendix presents microbial source tracking data. The table headings are defined as follows:

Isolate number: A unique number that Dr. Samadpour gave to each isolate from the water samples the County of Santa Cruz submitted.

Provider number: This number identifies what water sample was analyzed on a given date. In other words, if the County of Santa Cruz took four water samples on a given date, this column tells the reader which water sample was analyzed.

Stantum: The sampling station number (A map of the sampling stations is provided in Figure 8.)

Note: The specific fecal coliform source.

Source: The category of the fecal coliform source

FeColi: Fecal coliform concentration per 100 mL of water

Log FC: The logged fecal coliform concentration per 100 mL of water

Rain 1: Rainfall within the previous 24-hour time period

Rain 3: Rainfall within the previous 72-hour time period

Rain 7: Rainfall within the previous 168-hour time period

Isolate	Provider Sample	Stanfurn	Note	Source	sample Date	Fe Coli	log FC	RAIN	RAIN	RAIN
65360	12802-003-1	003	avian	Bird	1/28/2002	70	1.845098	0	0.85	1.11
65361	12802-003-1	003	avian	Bird	1/28/2002	70	1.845098	0	0.85	1.11
65363	12802-003-2	003	avian	Bird	1/28/2002	60	1.7781513	0	0.85	1.11
65366	12802-003-3	003	avian	Bird	1/28/2002	110	2.0413927	0	0.85	1.11
65362	12802-003-2	003	dog	Dog	1/28/2002	60	1.7781513	0	0.85	1.11
65358	12802-003-1	003	human	Human	1/28/2002	70	1.845098	0	0.85	1.11
65364	12802-003-2	003	rodent	Rodent	1/28/2002	60	1.7781513	0	0.85	1.11
65365	12802-003-3	003	unknown	Unknown	1/28/2002	110	2.0413927	0	0.85	1.11
65359	12802-003-1	003	raccoon	Wildlife	1/28/2002	70	1.845098	0	0.85	1.11
65367	12802-003-3	003	deer	Wildlife	1/28/2002	110	2.0413927	0	0.85	1.11
65745	21202-003-4	003	human	Human	2/12/2002	40	1.60206	0	0	1.69
65746	21202-003-4	003	rodent	Rodent	2/12/2002	40	1.60206	0	0	1.69
65743	21202-003-1	003	unknown	Unknown	2/12/2002	20	1.30103	0	0	1.69
65744	21202-003-4	003	unknown	Unknown	2/12/2002	40	1.60206	0	0	1.69
66216	003-1	003	avian	Bird	3/25/2002	820	2.9138139	0	0.1	1.83
66219	003-2	003	septage/ ss/ human	Human	3/25/2002	700	2.845098	0	0.1	1.83
66220	003-3	003	human	Human	3/25/2002	770	2.8864907	0	0.1	1.83
66221	003-3	003	human	Human	3/25/2002	770	2.8864907	0	0.1	1.83
66222	003-3	003	human	Human	3/25/2002	770	2.8864907	0	0.1	1.83
66223	003-3	003	raw sewage	Human	3/25/2002	770	2.8864907	0	0.1	1.83
66224	003-4	003	human	Human	3/25/2002	610	2.7853298	0	0.1	1.83
66225	003-4	003	rodent	Rodent	3/25/2002	610	2.7853298	0	0.1	1.83
66214	003-1	003	unknown	Unknown	3/25/2002	820	2.9138139	0	0.1	1.83
66215	003-1	003	unknown	Unknown	3/25/2002	820	2.9138139	0	0.1	1.83
66217	003-2	003	unknown	Unknown	3/25/2002	700	2.845098	0	0.1	1.83

Isolate	Provider Sample	Stratum	Note	Source	Sample Date	Fe Col	Log10C	RAIN#1	RAIN#3	RAIN#7
66218	003-2	003	unknown	Unknown	3/25/2002	700	2.845098	0	0.1	1.83
66226	003-4	003	beaver/ otter	Wildlife	3/25/2002	610	2.7853298	0	0.1	1.83
67331	003-1	003	Gull	Bird	5/21/2002	940	2.9731279	0	0.95	0.95
67335	003-3	003	avian	Bird	5/21/2002	710	2.8512583	0	0.95	0.95
67330	003-1	003	septage/ ss/ human	Human	5/21/2002	940	2.9731279	0	0.95	0.95
67332	003-1	003	raw sewage	Human	5/21/2002	940	2.9731279	0	0.95	0.95
67333	003-2	003	human	Human	5/21/2002	750	2.8750613	0	0.95	0.95
67334	003-2	003	human	Human	5/21/2002	750	2.8750613	0	0.95	0.95
67336	003-3	003	raw sewage	Human	5/21/2002	710	2.8512583	0	0.95	0.95
67337	003-3	003	unknown	Unknown	5/21/2002	710	2.8512583	0	0.95	0.95
71843	003-1	003	avian	Bird	12/10/2002	480	2.6812412	0.1	0.38	0.38
71845	003-1	003	avian	Bird	12/10/2002	480	2.6812412	0.1	0.38	0.38
71846	003-1	003	avian	Bird	12/10/2002	480	2.6812412	0.1	0.38	0.38
71847	003-1	003	Gull	Bird	12/10/2002	480	2.6812412	0.1	0.38	0.38
71849	003-1	003	avian	Bird	12/10/2002	480	2.6812412	0.1	0.38	0.38
71850	003-1	003	avian	Bird	12/10/2002	480	2.6812412	0.1	0.38	0.38
71852	003-2	003	Gull	Bird	12/10/2002	580	2.763428	0.1	0.38	0.38
71853	003-2	003	avian	Bird	12/10/2002	580	2.763428	0.1	0.38	0.38
71857	003-2	003	avian	Bird	12/10/2002	580	2.763428	0.1	0.38	0.38
71858	003-2	003	avian	Bird	12/10/2002	580	2.763428	0.1	0.38	0.38
71859	003-2	003	gull	Bird	12/10/2002	580	2.763428	0.1	0.38	0.38
71863	003-3	003	avian	Bird	12/10/2002	900	2.9542425	0.1	0.38	0.38
71865	003-3	003	avian	Bird	12/10/2002	900	2.9542425	0.1	0.38	0.38
71870	003-3	003	avian	Bird	12/10/2002	900	2.9542425	0.1	0.38	0.38
71872	003-3	003	Gull	Bird	12/10/2002	900	2.9542425	0.1	0.38	0.38
71851	003-1	003	horse	Horse	12/10/2002	480	2.6812412	0.1	0.38	0.38
71848	003-1	003	raw sewage	Human	12/10/2002	480	2.6812412	0.1	0.38	0.38
71854	003-2	003	human	Human	12/10/2002	580	2.763428	0.1	0.38	0.38
71855	003-2	003	human	Human	12/10/2002	580	2.763428	0.1	0.38	0.38
71856	003-2	003	human	Human	12/10/2002	580	2.763428	0.1	0.38	0.38
71864	003-3	003	human	Human	12/10/2002	900	2.9542425	0.1	0.38	0.38
71866	003-3	003	human	Human	12/10/2002	900	2.9542425	0.1	0.38	0.38
71867	003-3	003	human	Human	12/10/2002	900	2.9542425	0.1	0.38	0.38
71871	003-3	003	human	Human	12/10/2002	900	2.9542425	0.1	0.38	0.38
71842	003-1	003	unknown	Unknown	12/10/2002	480	2.6812412	0.1	0.38	0.38
71860	003-2	003	unknown	Unknown	12/10/2002	580	2.763428	0.1	0.38	0.38

Isolate	Provider Sample	Strainum	Note	Source	Sample Date	Bc Coll	Log10C	RAIN1	RAIN3	RAIN7
71861	003-2	003	unknown	Unknown	12/10/2002	580	2.763428	0.1	0.38	0.38
71869	003-3	003	unknown	Unknown	12/10/2002	900	2.9542425	0.1	0.38	0.38
71844	003-1	003	otter	Wildlife	12/10/2002	480	2.6812412	0.1	0.38	0.38
71862	003-2	003	otter	Wildlife	12/10/2002	580	2.763428	0.1	0.38	0.38
72062	003-1	003	avian	Bird	12/18/2002	140	2.146128	0	0.58	14.28
72064	003-2	003	avian	Bird	12/18/2002	130	2.1139434	0	0.58	14.28
72066	003-2	003	Gull	Bird	12/18/2002	130	2.1139434	0	0.58	14.28
72068	003-2	003	Gull	Bird	12/18/2002	130	2.1139434	0	0.58	14.28
72070	003-3	003	avian	Bird	12/18/2002	270	2.4313638	0	0.58	14.28
72073	003-3	003	avian	Bird	12/18/2002	270	2.4313638	0	0.58	14.28
72069	003-3	003	dog	Dog	12/18/2002	270	2.4313638	0	0.58	14.28
72063	003-1	003	human	Human	12/18/2002	140	2.146128	0	0.58	14.28
72065	003-2	003	septage	Human	12/18/2002	130	2.1139434	0	0.58	14.28
72067	003-2	003	human	Human	12/18/2002	130	2.1139434	0	0.58	14.28
72071	003-3	003	human	Human	12/18/2002	270	2.4313638	0	0.58	14.28
72072	003-3	003	human	Human	12/18/2002	270	2.4313638	0	0.58	14.28
72058	003-1	003	unknown	Unknown	12/18/2002	140	2.146128	0	0.58	14.28
72059	003-1	003	unknown	Unknown	12/18/2002	140	2.146128	0	0.58	14.28
72060	003-1	003	unknown	Unknown	12/18/2002	140	2.146128	0	0.58	14.28
72061	003-1	003	unknown	Unknown	12/18/2002	140	2.146128	0	0.58	14.28
72402	003-1	003	avian	Bird	1/13/2003	360	2.5563025	0	0	1.8
72403	003-1	003	avian	Bird	1/13/2003	360	2.5563025	0	0	1.8
72406	003-2	003	avian	Bird	1/13/2003	300	2.4771213	0	0	1.8
72407	003-3	003	avian	Bird	1/13/2003	520	2.7160033	0	0	1.8
72408	003-3	003	avian	Bird	1/13/2003	520	2.7160033	0	0	1.8
72405	003-2	003	dog	Dog	1/13/2003	300	2.4771213	0	0	1.8
72409	003-3	003	dog	Dog	1/13/2003	520	2.7160033	0	0	1.8
72400	003-1	003	human	Human	1/13/2003	360	2.5563025	0	0	1.8
72401	003-1	003	human	Human	1/13/2003	360	2.5563025	0	0	1.8
72404	003-2	003	human	Human	1/13/2003	300	2.4771213	0	0	1.8
72738	003-1	003	avian	Bird	2/18/2003	140	2.146128	0	0	1.47
72739	003-1	003	Gull	Bird	2/18/2003	140	2.146128	0	0	1.47
72745	003-2	003	avian	Bird	2/18/2003	130	2.1139434	0	0	1.47
72747	003-3	003	gull	Bird	2/18/2003	270	2.4313638	0	0	1.47
72749	003-3	003	gull	Bird	2/18/2003	270	2.4313638	0	0	1.47
72750	003-3	003	Gull	Bird	2/18/2003	270	2.4313638	0	0	1.47
72796	003-1	003	Gull	Bird	2/18/2003	140	2.146128	0	0	1.47
72797	003-1	003	avian	Bird	2/18/2003	140	2.146128	0	0	1.47
72800	003-2	003	avian	Bird	2/18/2003	130	2.1139434	0	0	1.47
72801	003-2	003	avian	Bird	2/18/2003	130	2.1139434	0	0	1.47

Isolate	Provider Sample	Stratum	Note	Source	Sample Date	Re- Coli	Log-FC	RAIN-1	RAIN-3	RAIN-7
72802	003-2	003	avian	Bird	2/18/2003	130	2.1139434	0	0	1.47
72803	003-2	003	avian	Bird	2/18/2003	130	2.1139434	0	0	1.47
72804	003-2	003	avian	Bird	2/18/2003	130	2.1139434	0	0	1.47
72805	003-3	003	avian	Bird	2/18/2003	270	2.4313638	0	0	1.47
72807	003-3	003	bovine	Cow	2/18/2003	270	2.4313638	0	0	1.47
72746	003-2	003	horse	Horse	2/18/2003	130	2.1139434	0	0	1.47
72740	003-1	003	septage	Human	2/18/2003	140	2.146128	0	0	1.47
72741	003-1	003	septage	Human	2/18/2003	140	2.146128	0	0	1.47
72744	003-2	003	human	Human	2/18/2003	130	2.1139434	0	0	1.47
72748	003-3	003	septage/ human	Human	2/18/2003	270	2.4313638	0	0	1.47
72798	003-1	003	human	Human	2/18/2003	140	2.146128	0	0	1.47
72799	003-1	003	human	Human	2/18/2003	140	2.146128	0	0	1.47
72803	003-2	003	human	Human	2/18/2003	130	2.1139434	0	0	1.47
72806	003-3	003	human	Human	2/18/2003	270	2.4313638	0	0	1.47
72808	003-3	003	human	Human	2/18/2003	270	2.4313638	0	0	1.47
72742	003-1	003	unknown	Unknown	2/18/2003	140	2.146128	0	0	1.47
72743	003-2	003	deer	Wildlife	2/18/2003	130	2.1139434	0	0	1.47
73154	003-1	003	gull	Bird	3/18/2003	1190	3.075547	0	0.39	2.08
73157	003-1	003	gull	Bird	3/18/2003	1190	3.075547	0	0.39	2.08
73159	003-2	003	gull	Bird	3/18/2003	1310	3.1172713	0	0.39	2.08
73161	003-2	003	Gull	Bird	3/18/2003	1310	3.1172713	0	0.39	2.08
73162	003-2	003	avian	Bird	3/18/2003	1310	3.1172713	0	0.39	2.08
73163	003-2	003	avian	Bird	3/18/2003	1310	3.1172713	0	0.39	2.08
73165	003-2	003	avian	Bird	3/18/2003	1310	3.1172713	0	0.39	2.08
73172	003-3	003	avian	Bird	3/18/2003	1130	3.0530784	0	0.39	2.08
73173	003-3	003	avian	Bird	3/18/2003	1130	3.0530784	0	0.39	2.08
73175	003-3	003	avian	Bird	3/18/2003	1130	3.0530784	0	0.39	2.08
73176	003-3	003	avian	Bird	3/18/2003	1130	3.0530784	0	0.39	2.08
73150	003-1	003	dog	Dog	3/18/2003	1190	3.075547	0	0.39	2.08
73164	003-2	003	dog	Dog	3/18/2003	1310	3.1172713	0	0.39	2.08
73168	003-2	003	canine	Dog	3/18/2003	1310	3.1172713	0	0.39	2.08
73174	003-3	003	canine	Dog	3/18/2003	1130	3.0530784	0	0.39	2.08
73151	003-1	003	septage	Human	3/18/2003	1190	3.075547	0	0.39	2.08
73152	003-1	003	septage	Human	3/18/2003	1190	3.075547	0	0.39	2.08
73166	003-2	003	septage	Human	3/18/2003	1310	3.1172713	0	0.39	2.08
73167	003-2	003	septage	Human	3/18/2003	1310	3.1172713	0	0.39	2.08
73169	003-3	003	human	Human	3/18/2003	1130	3.0530784	0	0.39	2.08
73178	003-3	003	human	Human	3/18/2003	1130	3.0530784	0	0.39	2.08
73155	003-1	003	rodent	Rodent	3/18/2003	1190	3.075547	0	0.39	2.08
73156	003-1	003	rodent	Rodent	3/18/2003	1190	3.075547	0	0.39	2.08
73160	003-2	003	rodent	Rodent	3/18/2003	1310	3.1172713	0	0.39	2.08
73153	003-1	003	unknown	Unknown	3/18/2003	1190	3.075547	0	0.39	2.08

Isolate	Provider Sample	Stantum	Note	Source	Sample Date	Re. Coli	Log FC	RAIN-1	RAIN-3	RAIN-7
73158	003-2	003	unknown	Unknown	3/18/2003	1310	3.1172713	0	0.39	2.08
73170	003-3	003	unknown	Unknown	3/18/2003	1130	3.0530784	0	0.39	2.08
73171	003-3	003	unknown	Unknown	3/18/2003	1130	3.0530784	0	0.39	2.08
73177	003-3	003	unknown	Unknown	3/18/2003	1130	3.0530784	0	0.39	2.08
85261	003 rep	003	avian	Bird	10/18/2003	700	2.845098		0	0
85262	003 rep	003	avian	Bird	10/18/2003	700	2.845098		0	0
85259	003	003	human	Human	10/18/2003	900	2.9542425		0	0
85257	003	003	rodent	Rodent	10/18/2003	900	2.9542425		0	0
85258	003	003	Unknown	Unknown	10/18/2003	900	2.9542425		0	0
85260	003 rep	003	Unknown	Unknown	10/18/2003	700	2.845098		0	0
84945	003-1	003	avian	Bird	10/21/2003	640	2.80618		0	0
84946	003-2	003	avian	Bird	10/21/2003	480	2.6812412		0	0
84947	003-2	003	gull	Bird	10/21/2003	480	2.6812412		0	0
84948	003-2	003	avian	Bird	10/21/2003	480	2.6812412		0	0
84943	003-1	003	raccoon	Wildlife	10/21/2003	640	2.80618		0	0
84944	003-1	003	raccoon	Wildlife	10/21/2003	640	2.80618		0	0
85578	003-1	003	avian	Bird	11/5/2003	260	2.4149733	0.39	0.39	1.2
85579	003-1	003	gull	Bird	11/5/2003	260	2.4149733	0.39	0.39	1.2
85583	003-2	003	avian	Bird	11/5/2003	100	2	0.39	0.39	1.2
85582	003-2	003	bov	Cow	11/5/2003	100	2	0.39	0.39	1.2
85577	003-1	003	canine	Dog	11/5/2003	260	2.4149733	0.39	0.39	1.2
85580	003-2	003	Unknown	Unknown	11/5/2003	100	2	0.39	0.39	1.2
85581	003-2	003	Unknown	Unknown	11/5/2003	100	2	0.39	0.39	1.2
86553	12-08-03-3B	003	gull	Bird	12/8/2003	740	2.8692317		1.31	1.64
86550	12-08-03-3A	003	rodent	Rodent	12/8/2003	820	2.9138139		1.31	1.64
86551	12-08-03-3A	003	rodent	Rodent	12/8/2003	820	2.9138139		1.31	1.64
86554	12-08-03-3B	003	rodent	Rodent	12/8/2003	740	2.8692317		1.31	1.64
86552	12-08-03-3B	003	Unknown	Unknown	12/8/2003	740	2.8692317		1.31	1.64
86549	12-08-03-3A	003	raccoon	Wildlife	12/8/2003	820	2.9138139		1.31	1.64
87450	003-2	003	gull	Bird	1/21/2004	20	1.30103		0	0
87452	003-3	003	avian	Bird	1/21/2004	30	1.4771213		0	0
87448	003-1	003	human	Human	1/21/2004	50	1.69897		0	0
87451	003-3	003	human	Human	1/21/2004	30	1.4771213		0	0

Isolate	Provider Sample	Stratum	Note	Source	Sample Date	Re Coll	Log FC	RAIN-T	RAIN-S	RAIN-7
87447	003-1	003	rodent	Rodent	1/21/2004	50	1.69897		0	0
87449	003-2	003	rodent	Rodent	1/21/2004	20	1.30103		0	0
87446	003-1	003	raccoon	Wildlife	1/21/2004	50	1.69897		0	0
90658	003-1	003	avian	Bird	3/23/2004	300	2.4771213		0	0
90659	003-2	003	gull	Bird	3/23/2004	240	2.3802112		0	0
90660	003-2	003	avian	Bird	3/23/2004	240	2.3802112		0	0
90662	003-3	003	avian	Bird	3/23/2004	160	2.20412		0	0
90663	003-3	003	gull	Bird	3/23/2004	160	2.20412		0	0
90656	003-1	003	bovine	Cow	3/23/2004	300	2.4771213		0	0
90661	003-2	003	rodent	Rodent	3/23/2004	240	2.3802112		0	0
90664	003-3	003	rodent	Rodent	3/23/2004	160	2.20412		0	0
90657	003-1	003	Unknown	Unknown	3/23/2004	300	2.4771213		0	0
93173	003-1	003	gull	Bird	5/18/2004	290	2.462398		0	0
93176	003-2	003	avian	Bird	5/18/2004	290	2.462398		0	0
93178	003-2	003	avian	Bird	5/18/2004	290	2.462398		0	0
93181	003-3	003	avian	Bird	5/18/2004	290	2.462398		0	0
93182	003-3	003	avian	Bird	5/18/2004	290	2.462398		0	0
93177	003-2	003	human	Human	5/18/2004	290	2.462398		0	0
93180	003-3	003	human	Human	5/18/2004	290	2.462398		0	0
93174	003-1	003	Unknown	Unknown	5/18/2004	290	2.462398		0	0
93179	003-3	003	Unknown	Unknown	5/18/2004	290	2.462398		0	0
93175	003-1	003	raccoon	Wildlife	5/18/2004	290	2.462398		0	0
95419	6-15-04-003-1	003	avian	Bird	6/15/2004	1380	3.1398791	0	0	0
95422	6-15-04-003-2	003	avian	Bird	6/15/2004	1280	3.10721	0	0	0
95424	6-15-04-003-3	003	avian	Bird	6/15/2004	1320	3.1205739	0	0	0
95425	6-15-04-003-3	003	gull	Bird	6/15/2004	1320	3.1205739	0	0	0
95426	6-15-04-003-3	003	avian	Bird	6/15/2004	1320	3.1205739	0	0	0
95507	6-16-04-003-1	003	gull	Bird	6/15/2004	620	2.7923917	0	0	0
95508	6-16-04-003-1	003	gull	Bird	6/15/2004	620	2.7923917	0	0	0
95510	6-16-04-003-2	003	avian	Bird	6/15/2004	660	2.8195439	0	0	0
95511	6-16-04-003-2	003	avian	Bird	6/15/2004	660	2.8195439	0	0	0
95513	6-16-04-003-3	003	avian	Bird	6/15/2004	640	2.80618	0	0	0
95417	6-15-04-003-1	003	dog	Dog	6/15/2004	1380	3.1398791	0	0	0

Appendix C
Microbial Source Tracking Data

Isolate	Provider Sample	Stratum	Note	Source	Sample Date	Re Coll	Log FC	RAIN-1	RAIN-2	RAIN-7
95423	6-15-04-003-2	003	dog	Dog	6/15/2004	1280	3.10721	0	0	0
95506	6-16-04-003-1	003	horse	Horse	6/15/2004	620	2.7923917	0	0	0
95509	6-16-04-003-2	003	human	Human	6/15/2004	660	2.8195439	0	0	0
95418	6-15-04-003-1	003	rodent	Rodent	6/15/2004	1380	3.1398791	0	0	0
95512	6-16-04-003-3	003	rodent	Rodent	6/15/2004	640	2.80618	0	0	0
95514	6-16-04-003-3	003	Rodent	Rodent	6/15/2004	640	2.80618	0	0	0
95420	6-15-04-003-2	003	Unknown	Unknown	6/15/2004	1280	3.10721	0	0	0
95421	6-15-04-003-2	003	Unknown	Unknown	6/15/2004	1280	3.10721	0	0	0
95779	6-24-04-003-1	003	avian	Bird	6/24/2004	240	2.3802112	0	0	0
95782	6-24-04-003-1	003	gull	Bird	6/24/2004	240	2.3802112	0	0	0
95784	6-24-04-003-2	003	avian	Bird	6/24/2004	210	2.3222193	0	0	0
95787	6-24-04-003-3	003	gull	Bird	6/24/2004	220	2.3424227	0	0	0
95788	6-24-04-003-3	003	bovine	Cow	6/24/2004	220	2.3424227	0	0	0
95780	6-24-04-003-1	003	dog	Dog	6/24/2004	240	2.3802112	0	0	0
95781	6-24-04-003-1	003	dog	Dog	6/24/2004	240	2.3802112	0	0	0
95785	6-24-04-003-2	003	dog	Dog	6/24/2004	210	2.3222193	0	0	0
95783	6-24-04-003-2	003	rodent	Rodent	6/24/2004	210	2.3222193	0	0	0
95786	6-24-04-003-3	003	Unknown	Unknown	6/24/2004	220	2.3424227	0	0	0
97558	07-19-2004-003-1	003	avian	Bird	7/19/2004	350	2.544068	0	0	0
97559	07-19-2004-003-2	003	avian	Bird	7/19/2004	270	2.4313638	0	0	0
97564	07-19-2004-003-3	003	avian	Bird	7/19/2004	400	2.60206	0	0	0

Isolate	Provider Sample	Stratum	Note	Source	Sample Date	Re. Col.	Log FC	RAIN-1	RAIN-3	RAIN-7
97563	07-19-2004-003-3	003	canine	Dog	7/19/2004	400	2.60206	0	0	0
97566	07-19-2004-003-1	003	human	Human	7/19/2004	350	2.544068	0	0	0
97567	07-19-2004-003-1	003	human	Human	7/19/2004	350	2.544068	0	0	0
97565	07-19-2004-003-3	003	human	Human	7/19/2004	400	2.60206	0	0	0
97560	07-19-2004-003-2	003	Unknown	Unknown	7/19/2004	270	2.4313638	0	0	0
97561	07-19-2004-003-2	003	Unknown	Unknown	7/19/2004	270	2.4313638	0	0	0
97562	07-19-2004-003-2	003	unknown	Unknown	7/19/2004	270	2.4313638	0	0	0
97650	07-20-2004-003-2	003	avian	Bird	7/20/2004	290	2.462398	0	0	0
97651	07-20-2004-003-2	003	avian	Bird	7/20/2004	290	2.462398	0	0	0
97654	07-20-2004-003-3	003	avian	Bird	7/20/2004	240	2.3802112	0	0	0
97646	07-20-2004-003-1	003	canine	Dog	7/20/2004	210	2.3222193	0	0	0
97647	07-20-2004-003-1	003	sewage	Human	7/20/2004	210	2.3222193	0	0	0
97649	07-20-2004-003-2	003	human	Human	7/20/2004	290	2.462398	0	0	0
97653	07-20-2004-003-3	003	rodent	Rodent	7/20/2004	240	2.3802112	0	0	0
97652	07-20-2004-003-3	003	Unknown	Unknown	7/20/2004	240	2.3802112	0	0	0
97648	07-20-2004-003-1	003	Raccoon	Wildlife	7/20/2004	210	2.3222193	0	0	0

Isolate	Provider Sample	Stantum	Note	Source	Sample Date	Fe Col	log ₁₀ CFU	RAIN#1	RAIN#2	RAIN#7
98751	8-02-04-003-1	003	avian	Bird	8/2/2004	160	2.20412	0	0	0
98753	8-02-04-003-1	003	avian	Bird	8/2/2004	160	2.20412	0	0	0
98754	8-02-04-003-2	003	gull	Bird	8/2/2004	190	2.2787536	0	0	0
98755	8-02-04-003-2	003	avian	Bird	8/2/2004	190	2.2787536	0	0	0
98756	8-02-04-003-2	003	avian	Bird	8/2/2004	190	2.2787536	0	0	0
98757	8-02-04-003-3	003	avian	Bird	8/2/2004	200	2.30103	0	0	0
98758	8-02-04-003-3	003	avian	Bird	8/2/2004	200	2.30103	0	0	0
98759	8-02-04-003-3	003	avian	Bird	8/2/2004	200	2.30103	0	0	0
98752	8-02-04-003-1	003	Raccoon	Wildlife	8/2/2004	160	2.20412	0	0	0
99407	8-04-04-003-1	003	avian	Bird	8/4/2004	170	2.2304489	0	0	0
99408	8-04-04-003-1	003	avian	Bird	8/4/2004	170	2.2304489	0	0	0
99409	8-04-04-003-1	003	gull	Bird	8/4/2004	170	2.2304489	0	0	0
99410	8-04-04-003-2	003	avian	Bird	8/4/2004	110	2.0413927	0	0	0
99411	8-04-04-003-2	003	gull	Bird	8/4/2004	110	2.0413927	0	0	0
99412	8-04-04-003-2	003	avian	Bird	8/4/2004	110	2.0413927	0	0	0
99414	8-04-04-003-3	003	avian	Bird	8/4/2004	60	1.7781513	0	0	0
99415	8-04-04-003-3	003	Unknown	Unknown	8/4/2004	60	1.7781513	0	0	0
99413	8-04-04-003-3	003	Raccoon	Wildlife	8/4/2004	60	1.7781513	0	0	0
99793	8-18-04-003-1	003	gull	Bird	8/18/2004	180	2.2552725	0	0	0
99794	8-18-04-003-1	003	gull	Bird	8/18/2004	180	2.2552725	0	0	0
99795	8-18-04-003-2	003	avian	Bird	8/18/2004	180	2.2552725	0	0	0
99797	8-18-04-003-2	003	gull	Bird	8/18/2004	180	2.2552725	0	0	0
99798	8-18-04-003-3	003	gull	Bird	8/18/2004	200	2.30103	0	0	0

Isolate	Provider Sample	Stratum	Note	Source	Sample Date	Fc Coli	Log FC	RAIN-1	RAIN-5	RAIN-7
99799	8-18-04-003-3	003	avian	Bird	8/18/2004	200	2.30103	0	0	0
99800	8-18-04-003-3	003	gull	Bird	8/18/2004	200	2.30103	0	0	0
99801	8-18-04-003-3	003	gull	Bird	8/18/2004	200	2.30103	0	0	0
99792	8-18-04-003-1	003	canine	Dog	8/18/2004	180	2.2552725	0	0	0
99796	8-18-04-003-2	003	canine	Dog	8/18/2004	180	2.2552725	0	0	0
102503	003-2	003	avian	Bird	9/21/2004	160	2.20412	0	0.02	0.02
102505	003-3	003	gull	Bird	9/21/2004	188	2.2741578	0	0.02	0.02
102506	003-3	003	gull	Bird	9/21/2004	188	2.2741578	0	0.02	0.02
102507	003-3	003	avian	Bird	9/21/2004	188	2.2741578	0	0.02	0.02
102117	003-1	003	human	Human	9/21/2004	176	2.2455127	0	0.02	0.02
102504	003-2	003	Unknown	Unknown	9/21/2004	160	2.20412	0	0.02	0.02
102118	003-1	003	Raccoon	Wildlife	9/21/2004	176	2.2455127	0	0.02	0.02
102119	003-1	003	raccoon	Wildlife	9/21/2004	176	2.2455127	0	0.02	0.02
65368	12802-022-1	022	avian	Bird	1/28/2002	120	2.0791812	0	0.85	1.11
65371	12802-022-2	022	Gull	Bird	1/28/2002	120	2.0791812	0	0.85	1.11
65372	12802-022-2	022	Gull	Bird	1/28/2002	120	2.0791812	0	0.85	1.11
65373	12802-022-2	022	avian	Bird	1/28/2002	120	2.0791812	0	0.85	1.11
65376	12802-022-3	022	avian	Bird	1/28/2002	100	2	0	0.85	1.11
65370	12802-022-1	022	human	Human	1/28/2002	120	2.0791812	0	0.85	1.11
65374	12802-022-3	022	septage/ss/ human	Human	1/28/2002	100	2	0	0.85	1.11
65375	12802-022-3	022	septage/ss/ human	Human	1/28/2002	100	2	0	0.85	1.11
65369	12802-022-1	022	unknown	Unknown	1/28/2002	120	2.0791812	0	0.85	1.11
65751	21202-022-2	022	duck	Bird	2/12/2002	24	1.3802112	0	0	1.69

Isolate	Provider Sample	Stratum	Note	Source	Sample Date	Re Coli	Log FC	RAIN-1	RAIN-3	RAIN-7
65752	21202-022-3	022	avian	Bird	2/12/2002	12	1.0791812	0	0	1.69
65747	21202-022-1	022	feline	Cat	2/12/2002	16	1.20412	0	0	1.69
65749	21202-022-2	022	Bovine	Cow	2/12/2002	24	1.3802112	0	0	1.69
65750	21202-022-2	022	swine	Unknown	2/12/2002	24	1.3802112	0	0	1.69
65748	21202-022-1	022	beaver/otter	Wildlife	2/12/2002	16	1.20412	0	0	1.69
66232	022-3	022	avian	Bird	3/25/2002	72	1.8573325	0	0.1	1.83
66230	022-3	022	dog	Dog	3/25/2002	72	1.8573325	0	0.1	1.83
66234	022-4	022	dog	Dog	3/25/2002	56	1.748188	0	0.1	1.83
66227	022-1	022	human	Human	3/25/2002	76	1.8808136	0	0.1	1.83
66228	022-1	022	raw sewage	Human	3/25/2002	76	1.8808136	0	0.1	1.83
66229	022-1	022	raw sewage	Human	3/25/2002	76	1.8808136	0	0.1	1.83
66233	022-4	022	rodent	Rodent	3/25/2002	56	1.748188	0	0.1	1.83
66235	022-4	022	rodent	Rodent	3/25/2002	56	1.748188	0	0.1	1.83
66546	022-2	022	rodent	Rodent	3/25/2002	52	1.7160033	0	0.1	1.83
66547	022-2	022	rodent	Rodent	3/25/2002	52	1.7160033	0	0.1	1.83
66231	022-3	022	otter	Wildlife	3/25/2002	72	1.8573325	0	0.1	1.83
67343	022-2	022	avian	Bird	5/21/2002	300	2.4771213	0	0.95	0.95
67345	022-3	022	avian	Bird	5/21/2002	190	2.2787536	0	0.95	0.95
67338	022-1	022	raw sewage	Human	5/21/2002	320	2.50515	0	0.95	0.95
67339	022-1	022	rodent	Rodent	5/21/2002	320	2.50515	0	0.95	0.95
67340	022-1	022	unknown	Unknown	5/21/2002	320	2.50515	0	0.95	0.95
67341	022-1	022	unknown	Unknown	5/21/2002	320	2.50515	0	0.95	0.95
67344	022-3	022	unknown	Unknown	5/21/2002	190	2.2787536	0	0.95	0.95
67342	022-2	022	otter	Wildlife	5/21/2002	300	2.4771213	0	0.95	0.95
71834	022-1	022	avian	Bird	12/10/2002	320	2.50515	0.1	0.38	0.38
71835	022-1	022	avian	Bird	12/10/2002	320	2.50515	0.1	0.38	0.38
71839	022-3	022	avian	Bird	12/10/2002	190	2.2787536	0.1	0.38	0.38
71840	022-3	022	Bovine	Cow	12/10/2002	190	2.2787536	0.1	0.38	0.38
71841	022-3	022	Bovine	Cow	12/10/2002	190	2.2787536	0.1	0.38	0.38
71836	022-1	022	human	Human	12/10/2002	320	2.50515	0.1	0.38	0.38
71837	022-3	022	otter	Wildlife	12/10/2002	190	2.2787536	0.1	0.38	0.38
72087	022-3	022	avian	Bird	12/18/2002	88	1.9444827	0	0.58	14.28
72088	022-3	022	bovine	Cow	12/18/2002	88	1.9444827	0	0.58	14.28
72078	022-1	022	human	Human	12/18/2002	76	1.8808136	0	0.58	14.28
72083	022-2	022	raw sewage	Human	12/18/2002	68	1.8325089	0	0.58	14.28

Isolate	Provider Sample	Stantum	Note	Source	Sample Date	Fe Coll	Log10C	RAIN-1	RAIN-2	RAIN-7
72084	022-2	022	human	Human	12/18/2002	68	1.8325089	0	0.58	14.28
72074	022-1	022	unknown	Unknown	12/18/2002	76	1.8808136	0	0.58	14.28
72075	022-1	022	unknown	Unknown	12/18/2002	76	1.8808136	0	0.58	14.28
72076	022-1	022	unknown	Unknown	12/18/2002	76	1.8808136	0	0.58	14.28
72077	022-1	022	unknown	Unknown	12/18/2002	76	1.8808136	0	0.58	14.28
72079	022-2	022	unknown	Unknown	12/18/2002	68	1.8325089	0	0.58	14.28
72080	022-2	022	unknown	Unknown	12/18/2002	68	1.8325089	0	0.58	14.28
72081	022-2	022	unknown	Unknown	12/18/2002	68	1.8325089	0	0.58	14.28
72082	022-2	022	unknown	Unknown	12/18/2002	68	1.8325089	0	0.58	14.28
72085	022-3	022	unknown	Unknown	12/18/2002	88	1.9444827	0	0.58	14.28
72086	022-3	022	unknown	Unknown	12/18/2002	88	1.9444827	0	0.58	14.28
72089	022-3	022	Unknown	Unknown	12/18/2002	88	1.9444827	0	0.58	14.28
72414	022-2	022	avian	Bird	1/13/2003	112	2.049218	0	0	1.8
72416	022-3	022	avian	Bird	1/13/2003	144	2.1583625	0	0	1.8
72417	022-3	022	avian	Bird	1/13/2003	144	2.1583625	0	0	1.8
72411	022-1	022	canine	Dog	1/13/2003	136	2.1335389	0	0	1.8
72415	022-2	022	horse	Horse	1/13/2003	112	2.049218	0	0	1.8
72410	022-1	022	human	Human	1/13/2003	136	2.1335389	0	0	1.8
72412	022-1	022	septage/ human	Human	1/13/2003	136	2.1335389	0	0	1.8
72413	022-2	022	human	Human	1/13/2003	112	2.049218	0	0	1.8
72418	022-3	022	unknown	Unknown	1/13/2003	144	2.1583625	0	0	1.8
72728	022-1	022	avian	Bird	2/18/2003	76	1.8808136	0	0	1.47
72730	022-2	022	avian	Bird	2/18/2003	68	1.8325089	0	0	1.47
72733	022-2	022	avian	Bird	2/18/2003	68	1.8325089	0	0	1.47
72737	022-3	022	avian	Bird	2/18/2003	88	1.9444827	0	0	1.47
72784	022-1	022	avian	Bird	2/18/2003	76	1.8808136	0	0	1.47
72785	022-1	022	avian	Bird	2/18/2003	76	1.8808136	0	0	1.47
72786	022-1	022	avian	Bird	2/18/2003	76	1.8808136	0	0	1.47
72787	022-1	022	avian	Bird	2/18/2003	76	1.8808136	0	0	1.47
72791	022-2	022	avian	Bird	2/18/2003	68	1.8325089	0	0	1.47
72792	022-3	022	avian	Bird	2/18/2003	88	1.9444827	0	0	1.47
72795	022-3	022	avian	Bird	2/18/2003	88	1.9444827	0	0	1.47
72727	022-1	022	Bovine	Cow	2/18/2003	76	1.8808136	0	0	1.47
72794	022-3	022	bovine	Cow	2/18/2003	88	1.9444827	0	0	1.47

Isolate	Provider Sample	Strain	Note	Source	Sample Date	Fe Col	log FC	RAIN-1	RAIN-3	RAIN-7
72729	022-1	022	dog	Dog	2/18/2003	76	1.8808136	0	0	1.47
72731	022-2	022	human	Human	2/18/2003	68	1.8325089	0	0	1.47
72732	022-2	022	septage/ human	Human	2/18/2003	68	1.8325089	0	0	1.47
72734	022-3	022	raw sewage	Human	2/18/2003	88	1.9444827	0	0	1.47
72788	022-2	022	raw sewage	Human	2/18/2003	68	1.8325089	0	0	1.47
72789	022-2	022	raw sewage	Human	2/18/2003	68	1.8325089	0	0	1.47
72790	022-2	022	septage/ human	Human	2/18/2003	68	1.8325089	0	0	1.47
72793	022-3	022	human	Human	2/18/2003	88	1.9444827	0	0	1.47
72735	022-3	022	rodent	Rodent	2/18/2003	88	1.9444827	0	0	1.47
72736	022-3	022	rodent	Rodent	2/18/2003	88	1.9444827	0	0	1.47
73184	022-1	022	avian	Bird	3/18/2003	60	1.7781513	0	0.39	2.08
73189	022-2	022	avian	Bird	3/18/2003	70	1.845098	0	0.39	2.08
73192	022-2	022	avian	Bird	3/18/2003	70	1.845098	0	0.39	2.08
73193	022-2	022	avian	Bird	3/18/2003	70	1.845098	0	0.39	2.08
73180	022-1	022	dog	Dog	3/18/2003	60	1.7781513	0	0.39	2.08
73181	022-1	022	dog	Dog	3/18/2003	60	1.7781513	0	0.39	2.08
73185	022-1	022	dog	Dog	3/18/2003	60	1.7781513	0	0.39	2.08
73179	022-1	022	septage/ human	Human	3/18/2003	60	1.7781513	0	0.39	2.08
73188	022-2	022	human	Human	3/18/2003	70	1.845098	0	0.39	2.08
73199	022-3	022	human	Human	3/18/2003	50	1.69897	0	0.39	2.08
73186	022-1	022	rodent	Rodent	3/18/2003	60	1.7781513	0	0.39	2.08
73187	022-1	022	rodent	Rodent	3/18/2003	60	1.7781513	0	0.39	2.08
73195	022-3	022	rodent	Rodent	3/18/2003	50	1.69897	0	0.39	2.08
73183	022-1	022	unknown	Unknown	3/18/2003	60	1.7781513	0	0.39	2.08
73191	022-2	022	unknown	Unknown	3/18/2003	70	1.845098	0	0.39	2.08
73182	022-1	022	raccoon	Wildlife	3/18/2003	60	1.7781513	0	0.39	2.08
73190	022-2	022	otter	Wildlife	3/18/2003	70	1.845098	0	0.39	2.08
73194	022-2	022	otter	Wildlife	3/18/2003	70	1.845098	0	0.39	2.08
73196	022-3	022	otter	Wildlife	3/18/2003	50	1.69897	0	0.39	2.08
73197	022-3	022	otter	Wildlife	3/18/2003	50	1.69897	0	0.39	2.08
73198	022-3	022	raccoon	Wildlife	3/18/2003	50	1.69897	0	0.39	2.08
73200	022-3	022	deer	Wildlife	3/18/2003	50	1.69897	0	0.39	2.08
73201	022-3	022	otter	Wildlife	3/18/2003	50	1.69897	0	0.39	2.08
73202	022-3	022	otter	Wildlife	3/18/2003	50	1.69897	0	0.39	2.08
85264	022	022	avian	Bird	10/18/2003	72	1.8573325		0	0
85266	022 rep	022	avian	Bird	10/18/2003	92	1.9637878		0	0
85267	022 rep	022	avian	Bird	10/18/2003	92	1.9637878		0	0
85265	022 rep	022	canine	Dog	10/18/2003	92	1.9637878		0	0

Isolate	Provider Sample	Stratum	Note	Source	Sample Date	Re Col	Log-FC	RAIN-1	RAIN-2	RAIN-3
85263	022	022	horse	Horse	10/18/2003	72	1.8573325		0	0
84949	022-1	022	avian	Bird	10/21/2003	10	1		0	0
84954	022-2	022	avian	Bird	10/21/2003	60	1.7781513		0	0
84950	022-1	022	canine	Dog	10/21/2003	10	1		0	0
84953	022-2	022	canine	Dog	10/21/2003	60	1.7781513		0	0
84951	022-2	022	rodent	Rodent	10/21/2003	60	1.7781513		0	0
84952	022-2	022	rodent	Rodent	10/21/2003	60	1.7781513		0	0
85585	022-1	022	avian	Bird	11/5/2003	60	1.7781513	0.39	0.39	1.2
85586	022-1	022	avian	Bird	11/5/2003	60	1.7781513	0.39	0.39	1.2
85588	022-2	022	avian	Bird	11/5/2003	60	1.7781513	0.39	0.39	1.2
85589	022-2	022	human	Human	11/5/2003	60	1.7781513	0.39	0.39	1.2
85584	022-1	022	rodent	Rodent	11/5/2003	60	1.7781513	0.39	0.39	1.2
85587	022-2	022	rodent	Rodent	11/5/2003	60	1.7781513	0.39	0.39	1.2
86555	12-08-03-22A	022	avian	Bird	12/8/2003	150	2.1760913		1.31	1.64
86556	12-08-03-22A	022	gull	Bird	12/8/2003	150	2.1760913		1.31	1.64
86558	12-08-03-22B	022	avian	Bird	12/8/2003	200	2.30103		1.31	1.64
86557	12-08-03-22A	022	sewage	Human	12/8/2003	150	2.1760913		1.31	1.64
86559	12-08-03-22B	022	sewage	Human	12/8/2003	200	2.30103		1.31	1.64
86560	12-08-03-22B	022	raccoon	Wildlife	12/8/2003	200	2.30103		1.31	1.64
97655	07-20-2004-022-1	022	avian	Bird	7/20/2004	44	1.6434527	0	0	0
97656	07-20-2004-022-1	022	avian	Bird	7/20/2004	44	1.6434527	0	0	0
97660	07-20-2004-022-2	022	avian	Bird	7/20/2004	64	1.80618	0	0	0
97661	07-20-2004-022-2	022	avian	Bird	7/20/2004	64	1.80618	0	0	0
97662	07-20-2004-022-3	022	avian	Bird	7/20/2004	64	1.80618	0	0	0
97664	07-20-2004-022-3	022	avian	Bird	7/20/2004	64	1.80618	0	0	0
97658	07-20-2004-022-2	022	Rodent	Rodent	7/20/2004	64	1.80618	0	0	0

Isolate	Provider Sample	Station	Note	Source	Sample Date	Re-Cell	Log-FC	RAIN-1	RAIN-2	RAIN-3
97659	07-20-2004-022-2	022	rodent	Rodent	7/20/2004	64	1.80618	0	0	0
97657	07-20-2004-022-1	022	Unknown	Unknown	7/20/2004	44	1.6434527	0	0	0
97663	07-20-2004-022-3	022	Unknown	Unknown	7/20/2004	64	1.80618	0	0	0
99416	8-04-04-022-1	022	avian	Bird	8/4/2004	72	1.8573325	0	0	0
99417	8-04-04-022-1	022	avian	Bird	8/4/2004	72	1.8573325	0	0	0
99418	8-04-04-022-1	022	avian	Bird	8/4/2004	72	1.8573325	0	0	0
99421	8-04-04-022-2	022	avian	Bird	8/4/2004	68	1.8325089	0	0	0
99422	8-04-04-022-2	022	avian	Bird	8/4/2004	68	1.8325089	0	0	0
99423	8-04-04-022-3	022	avian	Bird	8/4/2004	80	1.90309	0	0	0
99424	8-04-04-022-3	022	avian	Bird	8/4/2004	80	1.90309	0	0	0
99419	8-04-04-022-2	022	Unknown	Unknown	8/4/2004	68	1.8325089	0	0	0
99420	8-04-04-022-2	022	Raccoon	Wildlife	8/4/2004	68	1.8325089	0	0	0
99425	8-04-04-022-3	022	Raccoon	Wildlife	8/4/2004	80	1.90309	0	0	0

APPENDIX-D

USE ATTAINABILITY ANALYSIS
FOR
SAN LORENZO RIVER ESTUARY
IN
SANTA CRUZ COUNTY, CALIFORNIA

California Regional Water Quality Control Board, Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

March 17, 2006

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Appendices

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List of Acronyms and Abbreviations

This document contains numerous acronyms and abbreviations. In general, an abbreviation will be given in parentheses () following the first time a title or term is used, and the abbreviation will be used in almost all cases in place of that term later. The following alphabetical list of abbreviations used in this document is provided for the convenience of the reader:

CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
City	City of Santa Cruz
County	County of Santa Cruz
CWA	Clean Water Act
CWC	California Water Code
DHS	California Department of Health Services
<i>E. coli</i>	<i>Escherichia coli</i> bacteria
Estuary	San Lorenzo River Estuary
FDA	United States Department of Health and Human Services Food and Drug Administration
MF	Membrane Filter
MPN	Most Probable Number
NMFs	National Marine Fisheries
NOAA	National Oceanic and Atmospheric Administration
REC-1	Water Contact Recreation
REC-2	Non-contact Water Recreation
River	San Lorenzo River
SHELL	Referring to the beneficial use of shellfishing
SWRCB	State Water Resources Control Board
TMDL	Total Maximum Daily Load
UAA	Use Attainability Analysis
Water Board	Central Coast Water Board
WDR	Waste Discharge Requirements
WQO	Water Quality Objective
WWTP	Waste Water Treatment Plant

1. Introduction

Section 303(c) of the Clean Water Act (CWA) requires each State to develop water quality standards that protect the chemical, physical, and biological integrity of the State's waterbodies. Water quality standards under the Clean Water Act consist of three elements: Use Classification, Water Quality Criteria, and Antidegradation Policy (CWA § 303(c)(2); 40 C.F.R §§ 130.3, 131.6, 131.10, 131.11). Use Classification, termed "beneficial uses" under California law, are "uses specified in water quality standards for each water body or segment whether or not they are being attained." (40 C.F.R § 131.3(f)). Beneficial uses must be consistent with the goal of CWA section 101(a)(2)¹, which is to provide for "the protection and propagation of fish, shellfish, and wildlife and ... recreation in and on the water" (the so-called "fishable/swimmable" uses), unless the state demonstrates that those uses are not attainable. Beneficial uses must also consider, among others, the use and value of water for public water supplies, agriculture and industry, and the water quality standards of downstream waters (40 C.F.R. § 131.10).

Beneficial uses for surface waters in the Central Coast Region of California are designated in The Water Quality Control Plan (Basin Plan) for the California Regional Water Quality Control Board Central Coast Region, 1994. The Basin Plan lists the beneficial uses for approximately 1,000 water bodies under their jurisdiction.

San Lorenzo River Estuary is located within the City of Santa Cruz. Beneficial uses for this waterbody include: Contact and Non-contact Recreation (REC-1 and REC-2), Wildlife Habitat (WILD), Cold Freshwater Habitat (COLD), Migration of Aquatic Organisms (MIGR), Spawning, Reproduction, and/or Early Development (SPWN), Preservation of Biological Habitats of Special Significance (BIOL), Rare, Threatened, or Endangered Species (RARE), Estuarine Habitat (EST), Commercial and Sport Fishing (COMM), and Shellfish Harvesting (SHELL).

Recently, while reviewing bacteria water quality objectives related to Total Maximum Daily Loads (TMDLs), Central Coast Water Board (Water Board) staff questioned the validity of assigning the SHELL beneficial use to an area where it is highly unlikely that any shellfish are living. The San Lorenzo River Estuary has never been thoroughly examined to determine if the SHELL beneficial use is appropriate to this waterbody. The definition of this beneficial use is:

Uses of water that support habitats suitable for the collection of filter-feeding shellfish (e.g., clams, oysters, and mussels) for human consumption, commercial or sport purposes. This includes waters that have in the past, or may in the future, contain significant shellfisheries.

¹ Hereto referred to as the fishable/swimmable use.

Preliminary assessments indicate that the beneficial use of shellfishing may not be appropriate. Beneficial uses attained on or after November 28, 1975 are “existing uses” and indicate that there is evidence that the use is occurring or that water quality is sufficient to allow the use to occur. A beneficial use that is determined to be “existing” may not be removed. To remove a use that is not intended to satisfy the minimum of “fishable/swimmable,” it must be demonstrated that the use is not attainable through one of the factors listed in 40 CFR 131.10(g). To remove “fishable/swimmable” uses, a use attainability analysis (UAA), supported by at least one of the factors listed in 40 CFR 131.10(g), must be conducted. (U.S. EPA Water Quality Standards Handbook, pp. [2-6]-[2-8].)

Staff believes the 1976 listing of a shellfish beneficial use for San Lorenzo River Estuary was in error. In the 1975 Basin Plan, San Lorenzo River Estuary did not have shellfishing listed as a beneficial use. In 1976, the Estuary was listed as having shellfishing as a beneficial use, with no supporting documentation or rationale. Shanta Keeling, author of this report, questioned other staff at the Water Board as to why this change was made. Water Board staffs’ recollection was that in 1976, several waterbodies in the region were given a SHELL beneficial use, without supporting documentation, for what appeared to be administrative reasons. **Although legally a UAA must be performed in order to remove the beneficial use of shellfishing from the San Lorenzo River Estuary, staff wants to emphasize that the initial listing of this waterbody for SHELL did not appear to be scientifically based².**

The purpose of this UAA is to provide an assessment of the beneficial use of shellfishing for San Lorenzo River Estuary that would serve as the basis for amending the Basin Plan to remove the beneficial use of shellfish for this waterbody. Such a determination must coordinate with the pathogen Total Maximum Daily Load (TMDL) for this waterbody so the TMDL sets the proper level of water quality protection.

² See section 4.6 for additional information on this subject.

2. Characterization of the Segments and Watershed

The San Lorenzo River Estuary is located in Santa Cruz County, California (see Figure 1).

In general, the lagoon systems along the Central California coastline typically develop a sandbar at the ocean interface in the spring or summer months, due to decreased summer and fall fresh water flows and increased tidal delivery of sand to the beach environment (Swanson, 2003).

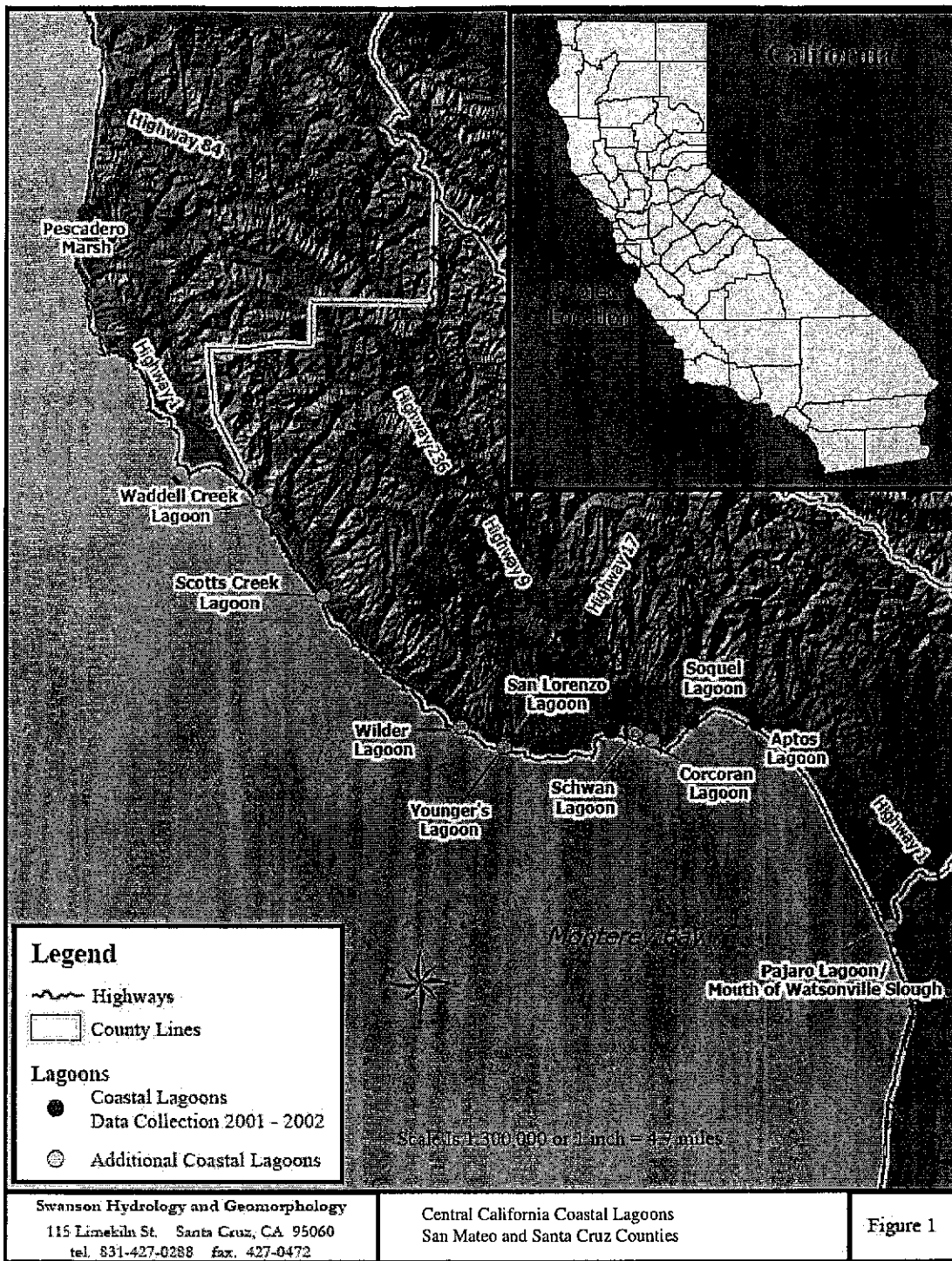


Figure 1: Map of Santa Cruz area (Swanson Hydrology)

The following watershed characterization is from a State Water Resources Control Board draft staff report (SWRCB, 1982, pp. 12):

DRAFT March 17, 2006

S:\TMDLs & Watershed Assessment\TMDL and Related Projects- Region 3\San Lorenzo River Estuary and Carbonera Creek\Pathogens\6 Regulatory Action\UAA\Scientific Review Draft\SLRE UAA SHELL-ATT 2 UAA (17mar2006).doc

“The San Lorenzo River drains an area of 138 square miles in northern Santa Cruz County. The river flows southward to empty into Monterey Bay at the City of Santa Cruz (Figure 2 and Figure 3). Much of the watershed is rugged and forested as is typical of the Coast Range south of San Francisco.

“The climate of the watershed is affected by its proximity to the Pacific Ocean. Winters are cool and wet with an average annual rainfall of about 47 inches, ranging from about 30 inches in the City of Santa Cruz to 60 inches at the community of Boulder Creek. Summers are warm and dry although cooled at times by morning fog at the lower elevations. Eighty-two percent of the rainfall occurs in the period December through April.”

The following is a characterization from Swanson Hydrology & Geomorphology’s Biogeochemical Function of the San Lorenzo River Lagoon (2003):

“Hydrologic alterations have restricted the summer lagoon habitat in coastal streams such as the San Lorenzo River, resulting in relatively rapid increases in groundwater elevations and the inundation of an unvegetated beach environment. Therefore, the San Lorenzo River Lagoon rarely remains closed for a sustained period of time [anywhere between a couple days and a 3-4 weeks], either due to natural exceedance of the water storage area in the Lagoon or unauthorized breachings of the sandbar (pp. 2).

“The physical distribution of water within the San Lorenzo Lagoon has a direct impact on the amount and the quality of the available aquatic habitat. When the mouth of the lagoon is breached, the water depth and areas of inundation are controlled by the tidal elevations, as shown by the diurnal variations in water depth recorded during the early 2002 season. Following closure (the development of the sand bar at the mouth), the lower stream channel gradually continues to inundate upstream locations as the water surface elevation increases and water backs up behind the sandbar (pp. 9).”

For the purposes of this report, San Lorenzo River Estuary will be defined as the San Lorenzo River mouth’s outlet at the ocean, inland to the Water Street Bridge. When a sand bar closes the Estuary outlet to the ocean, estuarine water levels can rise up to Water Street. Staff analysis of conductivity data is shown in Appendix D.

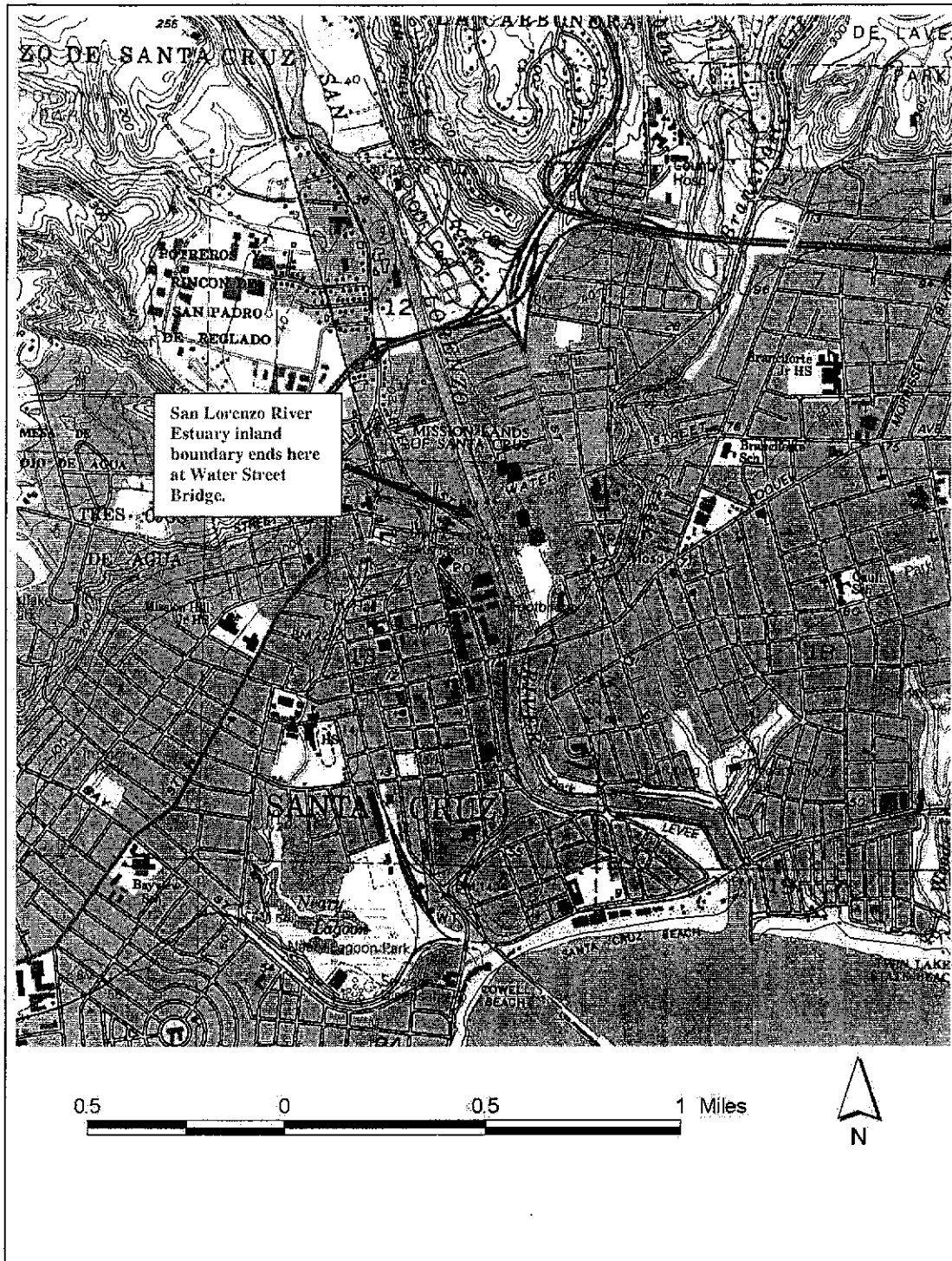


Figure 2: Map of San Lorenzo River Estuary

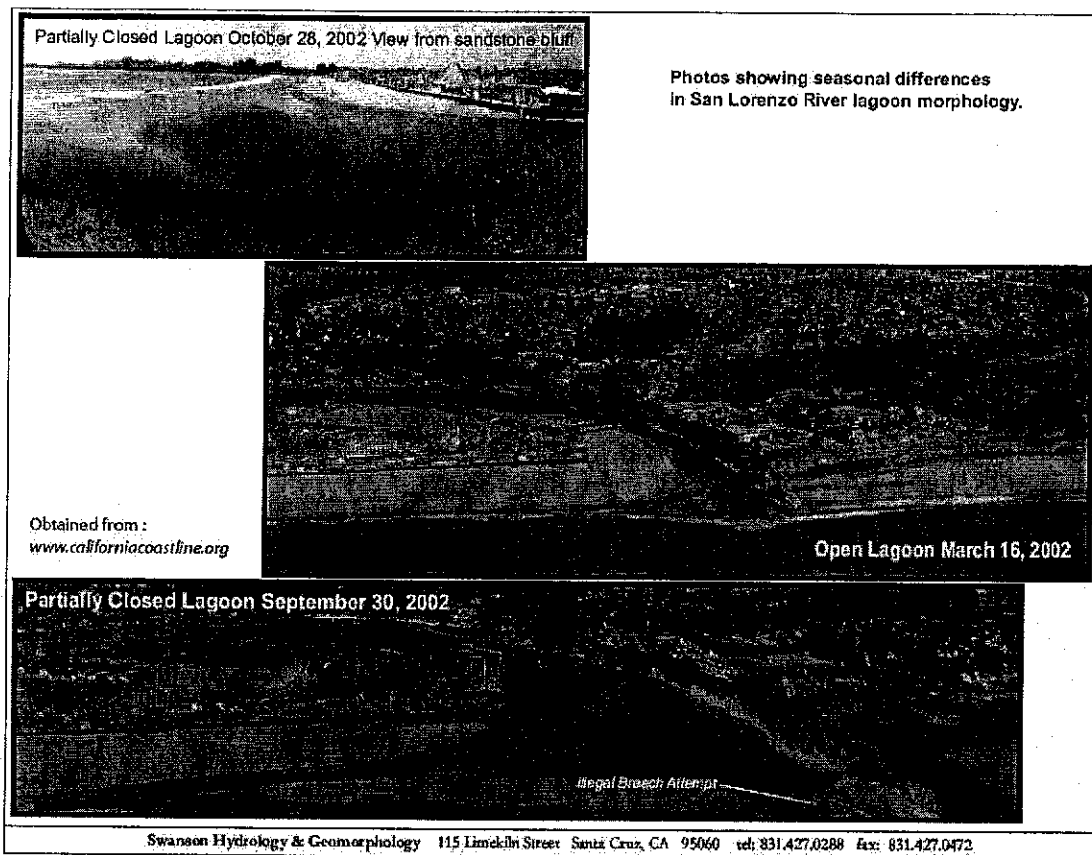


Figure 3: Photos of San Lorenzo River Estuary (Swanson Hydrology)

3. Methodology

A use attainability analysis (UAA) is a structured scientific assessment of the physical, chemical, biological, and economic factors affecting the attainment of a designated use (40 CFR 131.3). The purpose of a UAA is to provide information in order to decide whether a designated use is attainable or not.

Staff used the following methodology for this UAA: Staff analyzed existing water quality data, conducted reconnaissance work in the area, contacted persons with knowledge of the area and performed a literature review on the lifecycle and habitat requirements of shellfish. These methods allowed staff to compare information gathered to the six factors that may provide a legal basis for changing or removing a designated use (40 CFR 131.10(g)). These factors are:

- (1) Naturally occurring pollutant concentrations prevent the attainment of the use.

- (2) Natural, ephemeral, intermittent, or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met.
- (3) Human-caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place.
- (4) Dams, diversions, or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of the use.
- (5) Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unless these conditions may be compensated, unrelated to water quality preclude attainment of aquatic life protection uses.
- (6) Controls more stringent than those required by Sections 301(b) and 306 of the Clean Water Act would result in substantial and widespread economic and social impact.

To remove a designated use that is not an existing use, the state must demonstrate that attaining the designated use is not feasible under one or more of the six conditions listed above. If a state wishes to remove any fishable/swimmable uses, it must perform a UAA (40 C.F.R. § 131.10(j)). Prior to removing a use, the state also must provide notice and an opportunity for a public hearing (40 C.F.R § 131.10(e)).

The determination of whether or not a use is “existing” must include an evaluation of both the actual occurrence of the use activity (e.g., have shellfish been present?) and whether or not the level of water quality necessary to support the use has been achieved at any time since November 28, 1975. If the level of water quality necessary to support a use has been achieved within that time period, the use is considered “existing” and must be protected, regardless of whether or not the use activity has actually occurred.

Figure 4 shows the generalized methodology used in this UAA process. This methodology was taken from the Impaired Waters Guidance (SWRCB, 2005) for completing a UAA. Explicit in these analyses is a determination of specific waterbody attributes that are either conducive to attaining or preventing a given use. These attributes are evaluated to determine if certain modifications or controls would allow the use to be attainable and, if so, the feasibility or reasonableness of those options.

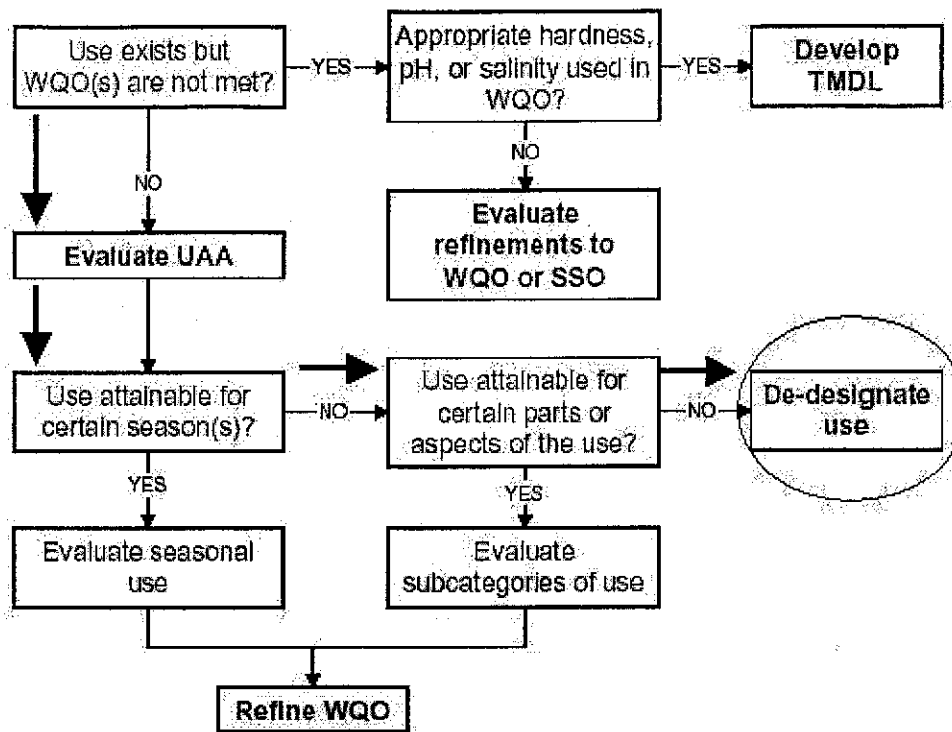


Figure 4: Summary of steps to determine whether to de-designate the SHELL beneficial use.

3.1 Methodology Steps

3.1.1 Step 1: Is the designated use being attained?

A beneficial use that is currently being attained, or that has been attained anytime on or after November 28, 1975 (the date on which the Federal Water Quality regulations took effect), is defined as an “existing use.” A beneficial use that is defined as an existing use is evidence that the use is occurring or that water quality is sufficient to allow the use to occur. An existing designated use may not be removed.

Staff researched reports, performed literature reviews and contacted knowledgeable individuals in order to ascertain if the use is being attained.

3.1.2 Step 2: Is water quality sufficient to attain the beneficial use?

When a beneficial use does not appear to exist, the waterbody may still “attain” the use. For example, a waterbody that is not being used as a drinking water supply source may be of sufficient quality and quantity to be a future source of drinking water. In this case, the beneficial use is being attained (although it is not being used) and that beneficial use may not be removed from the waterbody.

Therefore, for the SHELL beneficial use, we evaluated the concentration of bacteria in the waterbody from 1975 to present. Additionally, Water Board staff tried to determine if the hydrology, salinity and temperature of the water, along with the substrate of the waterbody, would allow shellfish to live in these environments.

Step 2a: Can the condition be compensated for with effluent discharges without violating water conservation requirements?

If the condition can be compensated for with effluent discharges without violating water conservation requirements, the use may not be removed.

3.1.3 Step 3: What factors preclude the attainment of the beneficial use?

This step determined what factors preclude the attainment of the beneficial use.

3.1.4 Step 4: Is restoration feasible?

In this step we evaluated if there was any practical way to restore the beneficial use of shellfishing.

4. Data Collection and Evaluation

4.1 Discussion of Bacterial Water Quality Objectives to Protect the Beneficial Use of Shellfishing

The Central Coast Water Board's Basin Plan's numeric water quality objective for bacteria for the SHELL beneficial use reads as follows:

At all areas where shellfish may be harvested for human consumption, the median total coliform concentration throughout the water column for any 30-day period shall not exceed 70/100 mL, nor shall more than 10% of the samples collected during any 30-day period exceed 230/100 mL for a five-tube decimal dilution test or 330/100 mL when a three-tube decimal dilution test is used.

The DHS' standards for fecal coliform are as follows³:

i. The total coliform median or geometric mean MPN of the water does not exceed 70 per 100 mL and not more than 10 percent of the samples exceed a MPN of 230 per 100 mL for a five-tube decimal dilution test.

³ These numbers are derived from the United States Department of Health and Human Services Food and Drug Administration (FDA), which operates a specific regulatory program directed at shellfish known as the National Shellfish Sanitation Program (1990). If these standards are not attained, the growing areas will be shut down on either a conditional or restricted basis.

ii. The fecal coliform median or geometric mean MPN of the water does not exceed 14 per 100 mL and not more than 10 percent of the samples exceed a MPN of 43 for a five-tube decimal dilution test.

In California, DHS uses the fecal coliform standard most often to classify growing areas (as opposed to total coliform).

Staff chose to use DHS' standards of fecal coliform concentrations for the beneficial use of shellfishing for the UAA because they are the most conservative and are the most protective of the beneficial use of shellfishing. The Basin Plan's total coliform standards will not be used because 1) fecal coliform standards are more stringent and therefore more protective of water quality, and 2) total coliform standards in the Basin Plan are not currently used by DHS to manage the shellfish growing areas in other areas of California, and, 3) the majority of data we have from the County of Santa Cruz are fecal coliform numbers as opposed to total coliform. DHS uses fecal coliform standards to determine whether or not a growing area should be open or closed, therefore, monitoring for fecal coliform is more protective of the beneficial use of shellfishing, since that is the numeric objective that determines whether the public may consume the shellfish, commercially or recreationally.

4.2 Water Quality Data

The County of Santa Cruz has been collecting bacterial water quality data in the San Lorenzo River Estuary since May 5, 1975. From May 5, 1975 to May 26, 2004, the San Lorenzo River Estuary has never achieved the United States Department of Health Service's National Shellfish Sanitation Program's standards of 14 MPN/100 mL fecal coliform. Please see Appendix A for Water Quality Data.

4.3 Site Visit

Staff visited San Lorenzo River Estuary at a low tide on July 14, 2004. Staff visually inspected the area to look for the presence of shellfish. Staff took water quality measurements (pH, specific conductivity, dissolved oxygen, temperature and salinity) and observed the substrate characteristics. Please see Appendix B for the field sheets.

Staff visited three different sites in the San Lorenzo River Estuary. In the first site, which was approximately 100 yards south of the trestle, staff visually inspected the area and did not see any shellfish present. This site is approximately 100 yards away from the ocean. Staff inspected the sandy substrate and the pilings from the trestle and did not observe any living shellfish. Nor did staff see any shellfish on the rock/concrete on the side of the Estuary. There was one broken mussel shell, with no organism inside, that staff found in the sand. This shell may have washed in from the ocean. The second site, which was only about a hundred yards away from the first in the direction of the ocean, had a sandy substrate and staff did not observe any shellfish.

Staff also visited what would be considered the “end” of the San Lorenzo River Estuary, where the Water Street Bridge crosses the River. The end is roughly defined as the last area where any traces of salt water makes its way up the River. No shellfish were found in this area.

4.4 Information From Other Agencies

Staff contacted several other agencies to gather information on the potential presence of shellfishing in San Lorenzo River Estuary. The following is what staff discovered:

4.4.1 California Department of Health Services

Discussions with A. Marc Commandatore of the California Department of Health Services (DHS) (pers. comm. A. Commandatore, 6/7/04) indicate that there have not been any commercial shellfish leases in the area. The closest historic commercial shellfishing lease was in Elkhorn Slough, which is approximately 15 miles south east of San Lorenzo River Estuary. During historic shellfish operations, seed shellfish were used. In other words, Elkhorn Slough was not harvesting native shellfish for commercial sale.

DHS does not do bacterial sampling for recreationally collected shellfish and therefore does not have data indicating if/where shellfish are collected in the San Lorenzo River Estuary.

4.4.2 California Department of Fish and Game

Department of Fish and Game staff person Paul Reilly (pers. comm. Reilly, 6/23/04) is unsure if people are collecting shellfish or if they exist in the Estuary.

4.4.3 County of Santa Cruz, Environmental Health Services

County of Santa Cruz, Environmental Health Services staff person Steve Peters (pers. comm. Peters 6/16/04) indicated that he is not aware of any recreational shellfish collecting in this waterbody. He indicated that there might be too much flushing for shellfish to occur in these areas. He did mention that there are some tiny–size of a thumbnail–fresh water clams where the water is continually fresh. He is not aware of anyone who consumes these clams.

In a separate conversation with a different employee at the County of Santa Cruz, Environmental Health Services, Robert Golling (pers. comm. Golling, 12/2/04), staff learned that he observed the fresh water clam *Corbicula* in Felton, which is about 7 miles from the ocean. He did not observe any shellfish any closer to the ocean. It is his opinion that the *Corbicula* could possibly live as far down the river where freshwater still exists. In other words, *Corbicula* may exist where the salt-water gradient ends (i.e. where the tidal influence ends). He mentioned a location on the San Lorenzo River–off the Highway 1 Bridge–where there is a possibility of *Corbicula* living.

4.4.4 Consultants – 2nd Nature

Nicole Beck and Maggie Mathias (pers. comm. 11/30/04), are evaluating Scott Creek Lagoon, Laguna Creek Lagoon, San Lorenzo Lagoon (upper and lower), Aptos Lagoon and Soquel Lagoon. Their project is entitled, Comparative Lagoon Ecological Assessment Project. This study is being conducted in conjunction with NOAA (National Oceanic and Atmospheric Administration) and NMFs (National Marine Fisheries).

Although the purpose of their study is not to determine whether filter-feeding shellfish are present in San Lorenzo River Estuary, Beck and Mathias are very familiar with the sampling efforts that have taken place in this area and therefore are able to inform Water Board staff of their observations.

Sampling, of one kind or another, has been taking place in San Lorenzo River Estuary for 5 or 6 years now (approximately 1999–2004). During their sample collections and observations of this estuary, samplers have not seen any living shellfish, whether during snorkeling, wading, or performing benthic invertebrate sampling.

There was one benthic invertebrate sample taken at the Railroad Trestle in San Lorenzo River Estuary, in which samplers found a few pieces of old, brittle clamshell, approximately 3 mms across.

Whether these few tiny pieces of clamshell are evidence that a clam was once living in the sediment in San Lorenzo River Estuary is difficult to determine. Since there were no living shellfish found, it is difficult to assert that shellfish are actually able to live and reproduce in this environment.

4.4.5 Consultant to the City of Santa Cruz

Gary Kittleson (Kittleson Environmental Consulting) is a biologist who does environmental consulting for the City of Santa Cruz. Kittleson was involved in an extensive study where they de-watered a section of the San Lorenzo River Estuary. During this study, Gary closely examined the study area and did not observe any shellfish (pers. comm. 1/25/05).

4.4.6 UC Santa Cruz Biology Professor

Dr. Peter Raimondi said there are definitely shellfish that occur in San Lorenzo River Estuary, right at the mouth (pers. comm. 2/23/05). Although there are shellfish that occur at the mouth, they only occur occasionally. The right weather and hydrology conditions need to be present in order to support a population. This happens in cycles. Sometimes shellfish are present in low numbers and sometimes they are not present at all. Dr. Raimondi also spoke with other invertebrate experts at UC Santa Cruz. They indicated that they do not have a species list for the estuary area. The reason for this is that none of these people have ever found marine bivalves in these areas (at least not of edible size – i.e. small ones may live for a while then die when conditions get anoxic or become freshwater).

He has never seen or heard of anyone collecting shellfish in that area for bait or consumption purposes, at least in the last 20 years. Even the marine life in the area do not feed on the shellfish that may occasionally occur there. He stated that in order to find some of these shellfish, one would need to excavate in the sand a ways to find these shellfish. Therefore, the likelihood of anyone but a researcher uncovering one of these shellfish is highly unlikely.

4.5 Literature Review

Staff conducted library research at the California Polytechnic State University, San Luis Obispo. Staff looked for journal articles as well as textbooks to determine if shellfish are or were present in San Lorenzo River Estuary. Additionally, staff looked for information regarding typical habitats for shellfish to see if this waterbody would support hypothetical shellfish populations; i.e. does this waterbody have the correct temperature, salinity, substrate, etc.

Staff did not find any journal articles that indicated that shellfish were living in San Lorenzo River Estuary. Subsequently, staff found no information that there were individuals collecting shellfish in these areas.

Textbook information was broad. The textbooks did not give any specific information on shellfish living in this waterbody. The biological, chemical and physical information regarding shellfish reproduction and habitat was wide-ranging for all the different species of shellfish. For example, some shellfish are able to tolerate a wider range of salinities than others. Others had more specific requirements having to do with temperature and salinity. This made it difficult to determine whether shellfish would be able to survive or not in this waterbody.

4.6 Basin Plan Designation Questionable

San Lorenzo River Estuary was not designated for SHELL in the 1975 Basin Plan. In a Central Coast Water Board Resolution 76-05, Table 2-2 indicates that San Lorenzo River Estuary now has SHELL as a beneficial use. The Resolution provided no explanation for this change and the corresponding staff report could not be located either in the Central Coast Water Board's office or by contacting State Water Resources Control Board staff. Staff does not have any information as to why San Lorenzo River Estuary was not listed for SHELL in 1975 and then was listed for SHELL in 1976. Staff believes this is further evidence to suggest there was no documentation for San Lorenzo River Estuary being listed for SHELL in the first place.

4.7 Public Outreach Meeting, November 15, 2005

Staff sought stakeholder input during a public meeting held at the Health Services Agency in Santa Cruz on November 15, 2005. The County of Santa Cruz facilitated the meeting. Staff presented our consideration to de-designate the beneficial use of

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shellfishing from the San Lorenzo River Estuary and gave a brief presentation why. Staff asked all in attendance (see Appendix C for details) the following questions and asked them to fill out a form with any information they might have:

- 1) Do YOU think the shellfishing beneficial use exists in either the San Lorenzo River Estuary or the Soquel Lagoon? If you think shellfishing is occurring, why do you think so? Or if not, why do you think so?
- 2) Do you know of anyone you think Regional Board staff should contact regarding this issue?

There were over 20 people in attendance at this meeting and no one submitted a form. At that time staff had already spoken in detail with four of the attendees at the meeting.

5. Evaluation of Attainability of the Shellfishing Beneficial Use

The shellfishing beneficial use specifies uses of water that support habitats suitable for the collection of filter-feeding shellfish (e.g., clams, oysters, and mussels) for human consumption, commercial or sport purposes. This includes waters that have in the past, or may in the future, contain significant shellfisheries (emphasis added). In this next section, we evaluate the attainability of the shellfishing beneficial use.

5.1 Attainability of Shellfishing Beneficial Use

5.1.1 Step 1: Is the beneficial use being attained?

The presence of shellfish and/or any records of shellfish being present *since* November 28, 1975 would demonstrate that the SHELL beneficial use exists. Staff's investigation found no known records, individual or agency knowledge that shows shellfish collection occurred anytime after November 28, 1975.

5.1.2 Step 2: Is water quality sufficient to attain the beneficial use?

Bacterial concentrations are persistently higher than water quality objectives, as presented in section 4, and water quality has never been sufficient to attain the beneficial use of shellfishing since November 28, 1975.

Step 2a: Can the condition be compensated for with effluent discharges without violating water conservation requirements?

San Lorenzo River Estuary is not an effluent dominated waterbody. Nor would any amount of increased effluent discharges help to create an environment where shellfish would be able to survive.

5.1.3 Step 3: What factors preclude the attainment of the beneficial use?

The habitat of this area is not consistently conducive to the growth and reproduction of a substantial population of shellfish. Staff does not completely understand exactly why the habitat is not supportive of shellfish but hypothesizes that it has to do with the substrate of the Estuary, along with seasonal closures of the mouth and the subsequent effects this

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creates. Historically, San Lorenzo River Estuary temporarily lost its connection to the ocean, or “closed,” during the portions of the dry season.

The contemporary conditions of closure in this waterbody, while still driven principally by natural phenomenon, are affected by both the infrastructure surrounding the waterbody and by activities relating to habitat enhancement, flood control, and recreational use. San Lorenzo River Estuary usually closes and opens on its own (except when illegal breaching efforts take place).

5.1.4 Step 4: Is restoration feasible?

“Restoration” does not seem feasible because habitat and closures at certain times of the year are similar to the natural conditions of the Estuary. Additionally, even if changes were made to this waterbody (which seems economically infeasible), the return of a sizeable and consistent shellfish population to the area is highly questionable as it is unclear when/if shellfish inhabited these areas in any substantial number in the last half of the 1900’s.

6. Findings of the UAA

6.1 Basis for Removal of Designated Use

The CFR factors for allowing a State to remove a designated use are listed in 131.10(g). Based on staff’s UAA, three factors preclude attainment of SHELL in San Lorenzo River Estuary.

- (2) Natural, ephemeral, intermittent, or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met;
- (4) Dams, diversions, or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of the use.
- (5) Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unless these conditions may be compensated, unrelated to water quality preclude attainment of aquatic life protection uses.

6.2 Alternatives for Addressing the SHELL Beneficial Use Designation

6.2.1 Alternative A – Removing the SHELL beneficial use

In this case, SHELL is determined to be an inappropriate beneficial use for this waterbody. Additionally, it seems the Central Coast Water Board designated the Estuary as SHELL, assuming the waterbody had shellfishing present without evaluating it to

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confirm the use. San Lorenzo River Estuary has not demonstrated the SHELL beneficial use qualities nor have there been any societal demands to use this waterbody in this way. Therefore, as a result of a combination of factors described in 40 CFR 131.10(g)(2), (4), and (5) of the Federal water quality standards regulation, Water Board staff concludes that the SHELL designation of San Lorenzo River Estuary does not apply.

6.2.2 Alternative B – No action. Maintain SHELL beneficial use designation

In this case, the status quo is maintained. Not taking any action would make it difficult to write and enforce a pathogen TMDL for San Lorenzo River Estuary because the numeric targets would have to be SHELL targets, even though the SHELL use is questionable. Enforcing a TMDL with SHELL numeric targets may impose unnecessary economic impacts on the City and County when they try to implement management measures to achieve a low level of bacteria concentration to protect a use that does not exist. Additionally, it may not be possible to achieve a level that is this low due to potential amounts of natural background levels of coliform.

6.3 Considerations Required for Recommended Alternative

Staff recommends alternative A. In making this recommendation, staff has considered all factors set out in §13241 of the Porter-Cologne Water Quality Control Act:

(a) *Past, present, and probable future beneficial uses of water.*

Shellfish collection did not likely exist in the recent past (i.e. the last 50 years, 1950 - present); shellfishing does not appear to exist currently; and shellfishing is unlikely to be a beneficial use in the future.

(b) *Environmental characteristics of the hydrographic unit under consideration, including the quality of water available thereto.*

Water quality objectives are currently not being met to support the beneficial use of SHELL, however the San Lorenzo River Estuary pathogen TMDL addresses bacterial water quality objectives and bacterial loading in the context of the REC-1 and REC-2 beneficial uses. Once the requirements in the TMDL are implemented, the environmental characteristics (bacterial concentrations) are expected to improve over existing conditions.

(c) *Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area.*

Although past and current water quality conditions do not allow for the attainment of SHELL beneficial use, there are other habitat factors such as substrate, salinity, temperature and flow that cannot be reasonably achieved through coordinated control of various factors in the area. However, improved concentrations of bacteria should occur via TMDL implementation, regardless of removal of the SHELL beneficial use.

(d) *Economic considerations.*

With regard to economic considerations, the recommended alternative is not expected to impose any additional cost on either the City or County and may reduce costs by making it more likely to achieve the REC-1 bacterial water quality objectives as opposed to the SHELL bacterial water quality objectives.

(e) *The need for developing housing within the region.*

Alternative A will have no significant impact on the need for developing housing within the region.

(f) *The need to develop and use recycled water.*

The need to develop and use recycled water will not be affected by the proposed modifications.

6.4 Anti-Degradation

Staff considered that there might be concern about the following: Does removal of the SHELL beneficial use allow higher levels of bacteria to further impair the Estuary? The current bacteria level in this waterbody regularly exceeds water quality objectives for REC-1 and REC-2 uses. The pathogen TMDL for San Lorenzo River Estuary establishes substantial reductions in allowable bacteria loading, regardless of the proposed de-designation.

The recommended alternative is also consistent with the Anti-degradation Policy, as it will not lower the water quality of the Estuary, relative to existing conditions. In assigning water quality objectives to the REC-1 and REC-2 uses that exist, this alternative fulfills the requirement of protecting the level of water quality necessary to protect existing and anticipated beneficial uses.

6.5 Future Considerations

Amending the potential SHELL designated use of San Lorenzo River Estuary does not preclude re-designation of this use should conditions within this waterbody change in the future. For example, should some major hydrologic changes modify the habitat of this waterbody to the point where shellfish would be able to grow and thrive in numbers that would allow for their collection and consumption, the beneficial use designation could be modified.

7. References

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Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	5-May-75	SLR RIVERMOUTH @ TRESTLE	70	
003	6-May-75	SLR RIVERMOUTH @ TRESTLE	50	
003	7-May-75	SLR RIVERMOUTH @ TRESTLE	950	
003	8-May-75	SLR RIVERMOUTH @ TRESTLE	90	
003	13-May-75	SLR RIVERMOUTH @ TRESTLE	510	
003	14-May-75	SLR RIVERMOUTH @ TRESTLE	580	
003	15-May-75	SLR RIVERMOUTH @ TRESTLE	210	
003	19-May-75	SLR RIVERMOUTH @ TRESTLE	150	
003	20-May-75	SLR RIVERMOUTH @ TRESTLE	350	
003	21-May-75	SLR RIVERMOUTH @ TRESTLE	390	
003	22-May-75	SLR RIVERMOUTH @ TRESTLE	200	
003	28-May-75	SLR RIVERMOUTH @ TRESTLE	420	
003	29-May-75	SLR RIVERMOUTH @ TRESTLE	170	
003	2-Jun-75	SLR RIVERMOUTH @ TRESTLE	130	
003	3-Jun-75	SLR RIVERMOUTH @ TRESTLE	110	
003	4-Jun-75	SLR RIVERMOUTH @ TRESTLE	500	
003	5-Jun-75	SLR RIVERMOUTH @ TRESTLE	170	
003	10-Jun-75	SLR RIVERMOUTH @ TRESTLE	1150	
003	12-Jun-75	SLR RIVERMOUTH @ TRESTLE	270	
003	17-Jun-75	SLR RIVERMOUTH @ TRESTLE	370	
003	18-Jun-75	SLR RIVERMOUTH @ TRESTLE	100	
003	23-Jun-75	SLR RIVERMOUTH @ TRESTLE	70	
003	25-Jun-75	SLR RIVERMOUTH @ TRESTLE	1200	
003	30-Jun-75	SLR RIVERMOUTH @ TRESTLE	210	
003	8-Jul-75	SLR RIVERMOUTH @ TRESTLE	110	
003	14-Jul-75	SLR RIVERMOUTH @ TRESTLE	160	
003	16-Jul-75	SLR RIVERMOUTH @ TRESTLE	310	
003	22-Jul-75	SLR RIVERMOUTH @ TRESTLE	230	
003	24-Jul-75	SLR RIVERMOUTH @ TRESTLE	220	
003	28-Jul-75	SLR RIVERMOUTH @ TRESTLE	200	
003	5-Aug-75	SLR RIVERMOUTH @ TRESTLE	1250	
003	7-Aug-75	SLR RIVERMOUTH @ TRESTLE	40	
003	13-Aug-75	SLR RIVERMOUTH @ TRESTLE	450	
003	18-Aug-75	SLR RIVERMOUTH @ TRESTLE	10000	
003	25-Aug-75	SLR RIVERMOUTH @ TRESTLE	400	
003	27-Aug-75	SLR RIVERMOUTH @ TRESTLE	800	
003	2-Sep-75	SLR RIVERMOUTH @ TRESTLE	90	
003	8-Oct-75	SLR RIVERMOUTH @ TRESTLE	50	
003	1-Apr-76	SLR RIVERMOUTH @ TRESTLE	500	
003	8-Apr-76	SLR RIVERMOUTH @ TRESTLE	1500	
003	15-Apr-76	SLR RIVERMOUTH @ TRESTLE	730	
003	21-Apr-76	SLR RIVERMOUTH @ TRESTLE	1000	
003	28-Apr-76	SLR RIVERMOUTH @ TRESTLE	80	
003	5-May-76	SLR RIVERMOUTH @ TRESTLE	880	
003	13-May-76	SLR RIVERMOUTH @ TRESTLE	160	
003	26-May-76	SLR RIVERMOUTH @ TRESTLE	280	
003	1-Jun-76	SLR RIVERMOUTH @ TRESTLE	0.9	
003	8-Jun-76	SLR RIVERMOUTH @ TRESTLE	160	
003	15-Jun-76	SLR RIVERMOUTH @ TRESTLE	180	
003	23-Jun-76	SLR RIVERMOUTH @ TRESTLE	380	
003	29-Jun-76	SLR RIVERMOUTH @ TRESTLE	240	
003	7-Jul-76	SLR RIVERMOUTH @ TRESTLE	460	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	15-Jul-76	SLR RIVERMOUTH @ TRESTLE	360	
003	21-Jul-76	SLR RIVERMOUTH @ TRESTLE	30	
003	10-Aug-76	SLR RIVERMOUTH @ TRESTLE	60	
003	25-Aug-76	SLR RIVERMOUTH @ TRESTLE	560	
003	31-Aug-76	SLR RIVERMOUTH @ TRESTLE	70	
003	15-Sep-76	SLR RIVERMOUTH @ TRESTLE	870	
003	5-Apr-77	SLR RIVERMOUTH @ TRESTLE	1700	
003	11-Apr-77	SLR RIVERMOUTH @ TRESTLE	3200	
003	12-Apr-77	SLR RIVERMOUTH @ TRESTLE	3000	
003	13-Apr-77	SLR RIVERMOUTH @ TRESTLE	540	
003	19-Apr-77	SLR RIVERMOUTH @ TRESTLE	3000	
003	20-Apr-77	SLR RIVERMOUTH @ TRESTLE	0.9	
003	25-Apr-77	SLR RIVERMOUTH @ TRESTLE	200	
003	26-Apr-77	SLR RIVERMOUTH @ TRESTLE	70	
003	27-Apr-77	SLR RIVERMOUTH @ TRESTLE	290	
003	2-May-77	SLR RIVERMOUTH @ TRESTLE	100	
003	3-May-77	SLR RIVERMOUTH @ TRESTLE	310	
003	9-May-77	SLR RIVERMOUTH @ TRESTLE	850	
003	16-May-77	SLR RIVERMOUTH @ TRESTLE	90	
003	23-May-77	SLR RIVERMOUTH @ TRESTLE	270	
003	24-May-77	SLR RIVERMOUTH @ TRESTLE	680	
003	1-Jun-77	SLR RIVERMOUTH @ TRESTLE	140	
003	6-Jun-77	SLR RIVERMOUTH @ TRESTLE	50	
003	8-Jun-77	SLR RIVERMOUTH @ TRESTLE	230	
003	13-Jun-77	SLR RIVERMOUTH @ TRESTLE	700	
003	5-Jul-77	SLR RIVERMOUTH @ TRESTLE	40	
003	11-Jul-77	SLR RIVERMOUTH @ TRESTLE	0.9	
003	18-Jul-77	SLR RIVERMOUTH @ TRESTLE	0.9	
003	20-Jul-77	SLR RIVERMOUTH @ TRESTLE	500	
003	25-Jul-77	SLR RIVERMOUTH @ TRESTLE	390	
003	1-Aug-77	SLR RIVERMOUTH @ TRESTLE	140	
003	8-Aug-77	SLR RIVERMOUTH @ TRESTLE	1400	
003	15-Aug-77	SLR RIVERMOUTH @ TRESTLE	80	
003	17-Aug-77	SLR RIVERMOUTH @ TRESTLE	660	
003	22-Aug-77	SLR RIVERMOUTH @ TRESTLE	260	
003	24-Aug-77	SLR RIVERMOUTH @ TRESTLE	200	
003	30-Aug-77	SLR RIVERMOUTH @ TRESTLE	90	
003	1-Sep-77	SLR RIVERMOUTH @ TRESTLE	40	
003	12-Sep-77	SLR RIVERMOUTH @ TRESTLE	190	
003	3-Jul-78	SLR RIVERMOUTH @ TRESTLE	420	
003	15-Aug-78	SLR RIVERMOUTH @ TRESTLE	2000	
003	21-Aug-78	SLR RIVERMOUTH @ TRESTLE	130	
003	24-Aug-78	SLR RIVERMOUTH @ TRESTLE	650	
003	28-Aug-78	SLR RIVERMOUTH @ TRESTLE	360	
003	31-Aug-78	SLR RIVERMOUTH @ TRESTLE	90	
003	6-Sep-78	SLR RIVERMOUTH @ TRESTLE	5000	
003	11-Sep-78	SLR RIVERMOUTH @ TRESTLE	5000	
003	19-Sep-78	SLR RIVERMOUTH @ TRESTLE	30	
003	25-Sep-78	SLR RIVERMOUTH @ TRESTLE	3000	
003	3-Oct-78	SLR RIVERMOUTH @ TRESTLE	900	
003	11-Oct-78	SLR RIVERMOUTH @ TRESTLE	2000	
003	16-Oct-78	SLR RIVERMOUTH @ TRESTLE	40	

Appendix D.1 wtr qty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	23-Oct-78	SLR RIVERMOUTH @ TRESTLE	750	
003	30-Oct-78	SLR RIVERMOUTH @ TRESTLE	360	
003	7-Nov-78	SLR RIVERMOUTH @ TRESTLE	200	
003	11-Apr-79	SLR RIVERMOUTH @ TRESTLE	5600	
003	17-Apr-79	SLR RIVERMOUTH @ TRESTLE	380	
003	14-May-79	SLR RIVERMOUTH @ TRESTLE	450	
003	16-May-79	SLR RIVERMOUTH @ TRESTLE	380	
003	21-May-79	SLR RIVERMOUTH @ TRESTLE	260	
003	22-May-79	SLR RIVERMOUTH @ TRESTLE	40	
003	30-May-79	SLR RIVERMOUTH @ TRESTLE	290	
003	31-May-79	SLR RIVERMOUTH @ TRESTLE	380	
003	4-Jun-79	SLR RIVERMOUTH @ TRESTLE	400	
003	5-Jun-79	SLR RIVERMOUTH @ TRESTLE	600	
003	6-Jun-79	SLR RIVERMOUTH @ TRESTLE	420	
003	11-Jun-79	SLR RIVERMOUTH @ TRESTLE	130	
003	18-Jun-79	SLR RIVERMOUTH @ TRESTLE	430	
003	20-Jun-79	SLR RIVERMOUTH @ TRESTLE	420	
003	25-Jun-79	SLR RIVERMOUTH @ TRESTLE	630	
003	26-Jun-79	SLR RIVERMOUTH @ TRESTLE	90	
003	5-Jul-79	SLR RIVERMOUTH @ TRESTLE	1200	
003	9-Jul-79	SLR RIVERMOUTH @ TRESTLE	70	
003	12-Jul-79	SLR RIVERMOUTH @ TRESTLE	420	
003	18-Jul-79	SLR RIVERMOUTH @ TRESTLE	1500	
003	24-Jul-79	SLR RIVERMOUTH @ TRESTLE	220	
003	31-Jul-79	SLR RIVERMOUTH @ TRESTLE	1300	
003	8-Aug-79	SLR RIVERMOUTH @ TRESTLE	30	
003	13-Aug-79	SLR RIVERMOUTH @ TRESTLE	1000	
003	27-Aug-79	SLR RIVERMOUTH @ TRESTLE	1500	
003	10-Jun-80	SLR RIVERMOUTH @ TRESTLE	1200	
003	17-Jun-80	SLR RIVERMOUTH @ TRESTLE	1200	
003	24-Jun-80	SLR RIVERMOUTH @ TRESTLE	1300	
003	1-Jul-80	SLR RIVERMOUTH @ TRESTLE	2200	
003	8-Jul-80	SLR RIVERMOUTH @ TRESTLE	380	
003	15-Jul-80	SLR RIVERMOUTH @ TRESTLE	1610	
003	24-Jul-80	SLR RIVERMOUTH @ TRESTLE	730	
003	29-Jul-80	SLR RIVERMOUTH @ TRESTLE	70	
003	5-Aug-80	SLR RIVERMOUTH @ TRESTLE	1840	
003	12-Aug-80	SLR RIVERMOUTH @ TRESTLE	5280	
003	2-Sep-80	SLR RIVERMOUTH @ TRESTLE	4800	
003	9-Sep-80	SLR RIVERMOUTH @ TRESTLE	32000	
003	16-Sep-80	SLR RIVERMOUTH @ TRESTLE	2620	
003	23-Sep-80	SLR RIVERMOUTH @ TRESTLE	4300	
003	30-Sep-80	SLR RIVERMOUTH @ TRESTLE	6700	
003	14-Oct-80	SLR RIVERMOUTH @ TRESTLE	1300	
003	21-Oct-80	SLR RIVERMOUTH @ TRESTLE	360	
003	22-Sep-81	SLR RIVERMOUTH @ TRESTLE	430	
003	29-Sep-81	SLR RIVERMOUTH @ TRESTLE	280	
003	6-Oct-81	SLR RIVERMOUTH @ TRESTLE	460	
003	13-Oct-81	SLR RIVERMOUTH @ TRESTLE	390	
003	4-May-82	SLR RIVERMOUTH @ TRESTLE	401	
003	11-May-82	SLR RIVERMOUTH @ TRESTLE	860	
003	18-May-82	SLR RIVERMOUTH @ TRESTLE	900	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	25-May-82	SLR RIVERMOUTH @ TRESTLE	1300	
003	27-May-82	SLR RIVERMOUTH @ TRESTLE	750	
003	1-Jun-82	SLR RIVERMOUTH @ TRESTLE	800	
003	9-Jun-82	SLR RIVERMOUTH @ TRESTLE	3600	
003	16-Jun-82	SLR RIVERMOUTH @ TRESTLE	880	
003	23-Jun-82	SLR RIVERMOUTH @ TRESTLE	2400	
003	14-Jul-82	SLR RIVERMOUTH @ TRESTLE	2000	
003	27-Jul-82	SLR RIVERMOUTH @ TRESTLE	1080	
003	3-Aug-82	SLR RIVERMOUTH @ TRESTLE	3600	
003	5-Aug-82	SLR RIVERMOUTH @ TRESTLE	1700	
003	10-Aug-82	SLR RIVERMOUTH @ TRESTLE	1100	
003	12-Aug-82	SLR RIVERMOUTH @ TRESTLE	2700	
003	17-Aug-82	SLR RIVERMOUTH @ TRESTLE	20	
003	24-Aug-82	SLR RIVERMOUTH @ TRESTLE	1490	
003	31-Aug-82	SLR RIVERMOUTH @ TRESTLE	3200	
003	7-Sep-82	SLR RIVERMOUTH @ TRESTLE	10000	
003	21-Sep-82	SLR RIVERMOUTH @ TRESTLE	510	
003	28-Sep-82	SLR RIVERMOUTH @ TRESTLE	1900	
003	5-Oct-82	SLR RIVERMOUTH @ TRESTLE	1100	
003	12-Oct-82	SLR RIVERMOUTH @ TRESTLE	1900	
003	20-Oct-82	SLR RIVERMOUTH @ TRESTLE	800	
003	3-Nov-82	SLR RIVERMOUTH @ TRESTLE	9.9	
003	16-Nov-82	SLR RIVERMOUTH @ TRESTLE	210	
003	23-Nov-82	SLR RIVERMOUTH @ TRESTLE	1600	
003	7-Dec-82	SLR RIVERMOUTH @ TRESTLE	590	
003	14-Dec-82	SLR RIVERMOUTH @ TRESTLE	1400	
003	4-Jan-83	SLR RIVERMOUTH @ TRESTLE	250	
003	11-Jan-83	SLR RIVERMOUTH @ TRESTLE	600	
003	20-Jan-83	SLR RIVERMOUTH @ TRESTLE	440	
003	1-Feb-83	SLR RIVERMOUTH @ TRESTLE	40	
003	15-Feb-83	SLR RIVERMOUTH @ TRESTLE	470	
003	22-Feb-83	SLR RIVERMOUTH @ TRESTLE	300	
003	8-Mar-83	SLR RIVERMOUTH @ TRESTLE	530	
003	29-Mar-83	SLR RIVERMOUTH @ TRESTLE	100	
003	5-Apr-83	SLR RIVERMOUTH @ TRESTLE	190	
003	12-Apr-83	SLR RIVERMOUTH @ TRESTLE	170	
003	26-Apr-83	SLR RIVERMOUTH @ TRESTLE	190	
003	3-May-83	SLR RIVERMOUTH @ TRESTLE	300	
003	10-May-83	SLR RIVERMOUTH @ TRESTLE	460	
003	17-May-83	SLR RIVERMOUTH @ TRESTLE	240	
003	24-May-83	SLR RIVERMOUTH @ TRESTLE	825	
003	31-May-83	SLR RIVERMOUTH @ TRESTLE	550	
003	7-Jun-83	SLR RIVERMOUTH @ TRESTLE	900	
003	14-Jun-83	SLR RIVERMOUTH @ TRESTLE	430	
003	28-Jun-83	SLR RIVERMOUTH @ TRESTLE	220	
003	5-Jul-83	SLR RIVERMOUTH @ TRESTLE	730	
003	11-Jul-83	SLR RIVERMOUTH @ TRESTLE	600	
003	18-Jul-83	SLR RIVERMOUTH @ TRESTLE	200	
003	25-Jul-83	SLR RIVERMOUTH @ TRESTLE	650	
003	1-Aug-83	SLR RIVERMOUTH @ TRESTLE	590	
003	9-Aug-83	SLR RIVERMOUTH @ TRESTLE	2501	
003	22-Aug-83	SLR RIVERMOUTH @ TRESTLE	610	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	6-Sep-83	SLR RIVERMOUTH @ TRESTLE	1600	
003	8-Sep-83	SLR RIVERMOUTH @ TRESTLE	300	
003	13-Sep-83	SLR RIVERMOUTH @ TRESTLE	640	
003	20-Sep-83	SLR RIVERMOUTH @ TRESTLE	450	
003	27-Sep-83	SLR RIVERMOUTH @ TRESTLE	760	
003	11-Oct-83	SLR RIVERMOUTH @ TRESTLE	600	
003	13-Oct-83	SLR RIVERMOUTH @ TRESTLE	960	
003	25-Oct-83	SLR RIVERMOUTH @ TRESTLE	900	
003	1-Nov-83	SLR RIVERMOUTH @ TRESTLE	1500	
003	8-Nov-83	SLR RIVERMOUTH @ TRESTLE	300	
003	9-Jan-84	SLR RIVERMOUTH @ TRESTLE	110	
003	17-Jan-84	SLR RIVERMOUTH @ TRESTLE	460	
003	8-Feb-84	SLR RIVERMOUTH @ TRESTLE	540	
003	13-Feb-84	SLR RIVERMOUTH @ TRESTLE	660	
003	21-Feb-84	SLR RIVERMOUTH @ TRESTLE	370	
003	27-Feb-84	SLR RIVERMOUTH @ TRESTLE	130	
003	5-Mar-84	SLR RIVERMOUTH @ TRESTLE	210	
003	12-Mar-84	SLR RIVERMOUTH @ TRESTLE	340	
003	19-Mar-84	SLR RIVERMOUTH @ TRESTLE	400	
003	26-Mar-84	SLR RIVERMOUTH @ TRESTLE	820	
003	2-Apr-84	SLR RIVERMOUTH @ TRESTLE	190	
003	9-Apr-84	SLR RIVERMOUTH @ TRESTLE	350	
003	16-Apr-84	SLR RIVERMOUTH @ TRESTLE	800	
003	23-Apr-84	SLR RIVERMOUTH @ TRESTLE	2200	
003	30-Apr-84	SLR RIVERMOUTH @ TRESTLE	200	
003	7-May-84	SLR RIVERMOUTH @ TRESTLE	750	
003	14-May-84	SLR RIVERMOUTH @ TRESTLE	480	
003	24-May-84	SLR RIVERMOUTH @ TRESTLE	180	
003	29-May-84	SLR RIVERMOUTH @ TRESTLE	500	
003	4-Jun-84	SLR RIVERMOUTH @ TRESTLE	730	
003	11-Jun-84	SLR RIVERMOUTH @ TRESTLE	400	
003	18-Jun-84	SLR RIVERMOUTH @ TRESTLE	40	
003	25-Jun-84	SLR RIVERMOUTH @ TRESTLE	448	
003	2-Jul-84	SLR RIVERMOUTH @ TRESTLE	1080	
003	9-Jul-84	SLR RIVERMOUTH @ TRESTLE	1136	
003	16-Jul-84	SLR RIVERMOUTH @ TRESTLE	2000	
003	23-Jul-84	SLR RIVERMOUTH @ TRESTLE	1800	
003	30-Jul-84	SLR RIVERMOUTH @ TRESTLE	190	
003	6-Aug-84	SLR RIVERMOUTH @ TRESTLE	44	
003	13-Aug-84	SLR RIVERMOUTH @ TRESTLE	96	
003	27-Aug-84	SLR RIVERMOUTH @ TRESTLE	490	
003	4-Sep-84	SLR RIVERMOUTH @ TRESTLE	350	
003	10-Sep-84	SLR RIVERMOUTH @ TRESTLE	110	
003	17-Sep-84	SLR RIVERMOUTH @ TRESTLE	330	
003	24-Sep-84	SLR RIVERMOUTH @ TRESTLE	50	
003	1-Oct-84	SLR RIVERMOUTH @ TRESTLE	1200	
003	9-Oct-84	SLR RIVERMOUTH @ TRESTLE	730	
003	22-Oct-84	SLR RIVERMOUTH @ TRESTLE	540	
003	3-Dec-84	SLR RIVERMOUTH @ TRESTLE	1300	
003	10-Dec-84	SLR RIVERMOUTH @ TRESTLE	1800	
003	14-Jan-85	SLR RIVERMOUTH @ TRESTLE	60	
003	22-Jan-85	SLR RIVERMOUTH @ TRESTLE	80	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	28-Jan-85	SLR RIVERMOUTH @ TRESTLE	2001	
003	4-Feb-85	SLR RIVERMOUTH @ TRESTLE	40	
003	11-Feb-85	SLR RIVERMOUTH @ TRESTLE	302	
003	19-Feb-85	SLR RIVERMOUTH @ TRESTLE	700	
003	25-Feb-85	SLR RIVERMOUTH @ TRESTLE	580	
003	4-Mar-85	SLR RIVERMOUTH @ TRESTLE	470	
003	11-Mar-85	SLR RIVERMOUTH @ TRESTLE	1610	
003	18-Mar-85	SLR RIVERMOUTH @ TRESTLE	1400	
003	26-Mar-85	SLR RIVERMOUTH @ TRESTLE	350	
003	1-Apr-85	SLR RIVERMOUTH @ TRESTLE	590	
003	8-Apr-85	SLR RIVERMOUTH @ TRESTLE	60	
003	15-Apr-85	SLR RIVERMOUTH @ TRESTLE	801	
003	22-Apr-85	SLR RIVERMOUTH @ TRESTLE	50	
003	29-Apr-85	SLR RIVERMOUTH @ TRESTLE	360	
003	13-May-85	SLR RIVERMOUTH @ TRESTLE	240	
003	20-May-85	SLR RIVERMOUTH @ TRESTLE	480	
003	3-Jun-85	SLR RIVERMOUTH @ TRESTLE	9.9	
003	10-Jun-85	SLR RIVERMOUTH @ TRESTLE	760	
003	17-Jun-85	SLR RIVERMOUTH @ TRESTLE	2160	
003	24-Jun-85	SLR RIVERMOUTH @ TRESTLE	251	
003	1-Jul-85	SLR RIVERMOUTH @ TRESTLE	20	
003	8-Jul-85	SLR RIVERMOUTH @ TRESTLE	30	
003	29-Jul-85	SLR RIVERMOUTH @ TRESTLE	80	
003	12-Aug-85	SLR RIVERMOUTH @ TRESTLE	390	
003	19-Aug-85	SLR RIVERMOUTH @ TRESTLE	740	
003	26-Aug-85	SLR RIVERMOUTH @ TRESTLE	360	
003	3-Sep-85	SLR RIVERMOUTH @ TRESTLE	1500	
003	9-Sep-85	SLR RIVERMOUTH @ TRESTLE	740	
003	19-Sep-85	SLR RIVERMOUTH @ TRESTLE	190	
003	23-Sep-85	SLR RIVERMOUTH @ TRESTLE	160	
003	7-Oct-85	SLR RIVERMOUTH @ TRESTLE	290	
003	28-Oct-85	SLR RIVERMOUTH @ TRESTLE	3400	
003	4-Nov-85	SLR RIVERMOUTH @ TRESTLE	660	
003	6-Dec-85	SLR RIVERMOUTH @ TRESTLE	210	
003	9-Dec-85	SLR RIVERMOUTH @ TRESTLE	570	
003	31-Dec-85	SLR RIVERMOUTH @ TRESTLE	2001	
003	6-Jan-86	SLR RIVERMOUTH @ TRESTLE	930	
003	13-Jan-86	SLR RIVERMOUTH @ TRESTLE	10	
003	27-Jan-86	SLR RIVERMOUTH @ TRESTLE	240	
003	3-Feb-86	SLR RIVERMOUTH @ TRESTLE	2200	
003	10-Feb-86	SLR RIVERMOUTH @ TRESTLE	9.9	
003	24-Feb-86	SLR RIVERMOUTH @ TRESTLE	110	
003	3-Mar-86	SLR RIVERMOUTH @ TRESTLE	460	
003	26-Mar-86	SLR RIVERMOUTH @ TRESTLE	410	
003	17-Jun-86	SLR RIVERMOUTH @ TRESTLE	2300	
003	23-Jun-86	SLR RIVERMOUTH @ TRESTLE	1400	
003	17-Nov-86	SLR RIVERMOUTH @ TRESTLE	700	
003	24-Nov-86	SLR RIVERMOUTH @ TRESTLE	1480	
003	1-Dec-86	SLR RIVERMOUTH @ TRESTLE	240	
003	8-Dec-86	SLR RIVERMOUTH @ TRESTLE	230	
003	16-Dec-86	SLR RIVERMOUTH @ TRESTLE	1575	
003	29-Dec-86	SLR RIVERMOUTH @ TRESTLE	460	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	5-Jan-87	SLR RIVERMOUTH @ TRESTLE	1600	
003	12-Jan-87	SLR RIVERMOUTH @ TRESTLE	220	
003	13-Jan-87	SLR RIVERMOUTH @ TRESTLE	330	
003	14-Jan-87	SLR RIVERMOUTH @ TRESTLE	130	
003	20-Jan-87	SLR RIVERMOUTH @ TRESTLE	290	
003	21-Jan-87	SLR RIVERMOUTH @ TRESTLE	170	
003	26-Jan-87	SLR RIVERMOUTH @ TRESTLE	440	
003	27-Jan-87	SLR RIVERMOUTH @ TRESTLE	830	
003	4-Feb-87	SLR RIVERMOUTH @ TRESTLE	310	
003	9-Feb-87	SLR RIVERMOUTH @ TRESTLE	720	
003	10-Feb-87	SLR RIVERMOUTH @ TRESTLE	1500	
003	11-Feb-87	SLR RIVERMOUTH @ TRESTLE	1490	
003	17-Feb-87	SLR RIVERMOUTH @ TRESTLE	700	
003	25-Feb-87	SLR RIVERMOUTH @ TRESTLE	570	
003	2-Mar-87	SLR RIVERMOUTH @ TRESTLE	420	
003	9-Mar-87	SLR RIVERMOUTH @ TRESTLE	700	
003	10-Mar-87	SLR RIVERMOUTH @ TRESTLE	620	
003	18-Mar-87	SLR RIVERMOUTH @ TRESTLE	810	
003	24-Mar-87	SLR RIVERMOUTH @ TRESTLE	600	
003	31-Mar-87	SLR RIVERMOUTH @ TRESTLE	530	
003	6-Apr-87	SLR RIVERMOUTH @ TRESTLE	1600	
003	13-Apr-87	SLR RIVERMOUTH @ TRESTLE	2100	
003	15-Apr-87	SLR RIVERMOUTH @ TRESTLE	2200	
003	21-Apr-87	SLR RIVERMOUTH @ TRESTLE	880	
003	22-Apr-87	SLR RIVERMOUTH @ TRESTLE	1900	
003	29-Apr-87	SLR RIVERMOUTH @ TRESTLE	1900	
003	4-May-87	SLR RIVERMOUTH @ TRESTLE	2000	
003	5-May-87	SLR RIVERMOUTH @ TRESTLE	1800	
003	12-May-87	SLR RIVERMOUTH @ TRESTLE	160	
003	13-May-87	SLR RIVERMOUTH @ TRESTLE	450	
003	19-May-87	SLR RIVERMOUTH @ TRESTLE	230	
003	20-May-87	SLR RIVERMOUTH @ TRESTLE	990	
003	26-May-87	SLR RIVERMOUTH @ TRESTLE	930	
003	1-Jun-87	SLR RIVERMOUTH @ TRESTLE	1300	
003	3-Jun-87	SLR RIVERMOUTH @ TRESTLE	1100	
003	6-Jun-87	SLR RIVERMOUTH @ TRESTLE	3600	
003	8-Jun-87	SLR RIVERMOUTH @ TRESTLE	800	
003	15-Jun-87	SLR RIVERMOUTH @ TRESTLE	1900	
003	22-Jun-87	SLR RIVERMOUTH @ TRESTLE	4001	
003	29-Jun-87	SLR RIVERMOUTH @ TRESTLE	320	
003	7-Jul-87	SLR RIVERMOUTH @ TRESTLE	4500	
003	13-Jul-87	SLR RIVERMOUTH @ TRESTLE	3800	
003	13-Jul-87	SLR RIVERMOUTH @ TRESTLE	3900	
003	20-Jul-87	SLR RIVERMOUTH @ TRESTLE	5000	
003	27-Jul-87	SLR RIVERMOUTH @ TRESTLE	180	
003	3-Aug-87	SLR RIVERMOUTH @ TRESTLE	180	
003	4-Aug-87	SLR RIVERMOUTH @ TRESTLE	90	
003	10-Aug-87	SLR RIVERMOUTH @ TRESTLE	1400	
003	17-Aug-87	SLR RIVERMOUTH @ TRESTLE	1100	
003	24-Aug-87	SLR RIVERMOUTH @ TRESTLE	880	
003	31-Aug-87	SLR RIVERMOUTH @ TRESTLE	780	
003	8-Sep-87	SLR RIVERMOUTH @ TRESTLE	1000	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	9-Sep-87	SLR RIVERMOUTH @ TRESTLE	460	
003	14-Sep-87	SLR RIVERMOUTH @ TRESTLE	580	
003	22-Sep-87	SLR RIVERMOUTH @ TRESTLE	1300	
003	28-Sep-87	SLR RIVERMOUTH @ TRESTLE	740	
003	5-Oct-87	SLR RIVERMOUTH @ TRESTLE	660	
003	6-Oct-87	SLR RIVERMOUTH @ TRESTLE	400	
003	21-Oct-87	SLR RIVERMOUTH @ TRESTLE	1400	
003	27-Oct-87	SLR RIVERMOUTH @ TRESTLE	2200	
003	2-Nov-87	SLR RIVERMOUTH @ TRESTLE	740	
003	4-Nov-87	SLR RIVERMOUTH @ TRESTLE	2100	
003	10-Nov-87	SLR RIVERMOUTH @ TRESTLE	1500	
003	16-Nov-87	SLR RIVERMOUTH @ TRESTLE	1700	
003	23-Nov-87	SLR RIVERMOUTH @ TRESTLE	560	
003	1-Dec-87	SLR RIVERMOUTH @ TRESTLE	3600	
003	7-Dec-87	SLR RIVERMOUTH @ TRESTLE	3700	
003	9-Dec-87	SLR RIVERMOUTH @ TRESTLE	2100	
003	14-Dec-87	SLR RIVERMOUTH @ TRESTLE	720	
003	15-Dec-87	SLR RIVERMOUTH @ TRESTLE	1100	
003	22-Dec-87	SLR RIVERMOUTH @ TRESTLE	440	
003	29-Dec-87	SLR RIVERMOUTH @ TRESTLE	4300	
003	5-Jan-88	SLR RIVERMOUTH @ TRESTLE	1400	
003	11-Jan-88	SLR RIVERMOUTH @ TRESTLE	1200	
003	26-Jan-88	SLR RIVERMOUTH @ TRESTLE	400	
003	2-Feb-88	SLR RIVERMOUTH @ TRESTLE	190	
003	9-Feb-88	SLR RIVERMOUTH @ TRESTLE	470	
003	23-Feb-88	SLR RIVERMOUTH @ TRESTLE	1600	
003	8-Mar-88	SLR RIVERMOUTH @ TRESTLE	1280	
003	9-Mar-88	SLR RIVERMOUTH @ TRESTLE	220	
003	15-Mar-88	SLR RIVERMOUTH @ TRESTLE	300	
003	21-Mar-88	SLR RIVERMOUTH @ TRESTLE	360	
003	28-Mar-88	SLR RIVERMOUTH @ TRESTLE	1220	
003	4-Apr-88	SLR RIVERMOUTH @ TRESTLE	20	
003	5-Apr-88	SLR RIVERMOUTH @ TRESTLE	1700	
003	11-Apr-88	SLR RIVERMOUTH @ TRESTLE	600	
003	18-Apr-88	SLR RIVERMOUTH @ TRESTLE	530	
003	25-Apr-88	SLR RIVERMOUTH @ TRESTLE	1.0	
003	2-May-88	SLR RIVERMOUTH @ TRESTLE	120	
003	3-May-88	SLR RIVERMOUTH @ TRESTLE	115	
003	9-May-88	SLR RIVERMOUTH @ TRESTLE	560	
003	17-May-88	SLR RIVERMOUTH @ TRESTLE	200	
003	24-May-88	SLR RIVERMOUTH @ TRESTLE	170	
003	31-May-88	SLR RIVERMOUTH @ TRESTLE	10	
003	1-Jun-88	SLR RIVERMOUTH @ TRESTLE	40	
003	6-Jun-88	SLR RIVERMOUTH @ TRESTLE	170	
003	13-Jun-88	SLR RIVERMOUTH @ TRESTLE	320	
003	20-Jun-88	SLR RIVERMOUTH @ TRESTLE	70	
003	27-Jun-88	SLR RIVERMOUTH @ TRESTLE	590	
003	6-Jul-88	SLR RIVERMOUTH @ TRESTLE	360	
003	11-Jul-88	SLR RIVERMOUTH @ TRESTLE	820	
003	18-Jul-88	SLR RIVERMOUTH @ TRESTLE	260	
003	1-Aug-88	SLR RIVERMOUTH @ TRESTLE	1240	
003	2-Aug-88	SLR RIVERMOUTH @ TRESTLE	800	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	8-Aug-88	SLR RIVERMOUTH @ TRESTLE	200	
003	15-Aug-88	SLR RIVERMOUTH @ TRESTLE	370	
003	22-Aug-88	SLR RIVERMOUTH @ TRESTLE	1320	
003	29-Aug-88	SLR RIVERMOUTH @ TRESTLE	740	
003	6-Sep-88	SLR RIVERMOUTH @ TRESTLE	1180	
003	7-Sep-88	SLR RIVERMOUTH @ TRESTLE	2001	
003	12-Sep-88	SLR RIVERMOUTH @ TRESTLE	80	
003	19-Sep-88	SLR RIVERMOUTH @ TRESTLE	170	
003	27-Sep-88	SLR RIVERMOUTH @ TRESTLE	145	
003	4-Oct-88	SLR RIVERMOUTH @ TRESTLE	435	
003	5-Oct-88	SLR RIVERMOUTH @ TRESTLE	235	
003	11-Oct-88	SLR RIVERMOUTH @ TRESTLE	490	
003	17-Oct-88	SLR RIVERMOUTH @ TRESTLE	700	
003	19-Oct-88	SLR RIVERMOUTH @ TRESTLE	2270	
003	24-Oct-88	SLR RIVERMOUTH @ TRESTLE	3400	
003	31-Oct-88	SLR RIVERMOUTH @ TRESTLE	180	
003	1-Nov-88	SLR RIVERMOUTH @ TRESTLE	5200	
003	2-Nov-88	SLR RIVERMOUTH @ TRESTLE	2680	
003	7-Nov-88	SLR RIVERMOUTH @ TRESTLE	1720	
003	16-Nov-88	SLR RIVERMOUTH @ TRESTLE	1740	
003	21-Nov-88	SLR RIVERMOUTH @ TRESTLE	2200	
003	28-Nov-88	SLR RIVERMOUTH @ TRESTLE	460	
003	30-Nov-88	SLR RIVERMOUTH @ TRESTLE	510	
003	6-Dec-88	SLR RIVERMOUTH @ TRESTLE	1040	
003	7-Dec-88	SLR RIVERMOUTH @ TRESTLE	480	
003	12-Dec-88	SLR RIVERMOUTH @ TRESTLE	20	
003	27-Dec-88	SLR RIVERMOUTH @ TRESTLE	1520	
003	3-Jan-89	SLR RIVERMOUTH @ TRESTLE	300	
003	4-Jan-89	SLR RIVERMOUTH @ TRESTLE	100	
003	9-Jan-89	SLR RIVERMOUTH @ TRESTLE	340	
003	18-Jan-89	SLR RIVERMOUTH @ TRESTLE	140	
003	23-Jan-89	SLR RIVERMOUTH @ TRESTLE	1570	
003	30-Jan-89	SLR RIVERMOUTH @ TRESTLE	1100	
003	31-Jan-89	SLR RIVERMOUTH @ TRESTLE	1960	
003	6-Feb-89	SLR RIVERMOUTH @ TRESTLE	110	
003	7-Feb-89	SLR RIVERMOUTH @ TRESTLE	50	
003	9-Feb-89	SLR RIVERMOUTH @ TRESTLE	1310	
003	13-Feb-89	SLR RIVERMOUTH @ TRESTLE	350	
003	21-Feb-89	SLR RIVERMOUTH @ TRESTLE	110	
003	6-Mar-89	SLR RIVERMOUTH @ TRESTLE	1515	
003	8-Mar-89	SLR RIVERMOUTH @ TRESTLE	2260	
003	13-Mar-89	SLR RIVERMOUTH @ TRESTLE	940	
003	22-Mar-89	SLR RIVERMOUTH @ TRESTLE	1070	
003	28-Mar-89	SLR RIVERMOUTH @ TRESTLE	440	
003	3-Apr-89	SLR RIVERMOUTH @ TRESTLE	245	
003	4-Apr-89	SLR RIVERMOUTH @ TRESTLE	360	
003	11-Apr-89	SLR RIVERMOUTH @ TRESTLE	2540	
003	18-Apr-89	SLR RIVERMOUTH @ TRESTLE	30	
003	24-Apr-89	SLR RIVERMOUTH @ TRESTLE	2460	
003	25-Apr-89	SLR RIVERMOUTH @ TRESTLE	0.5	
003	1-May-89	SLR RIVERMOUTH @ TRESTLE	70	
003	2-May-89	SLR RIVERMOUTH @ TRESTLE	188	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	8-May-89	SLR RIVERMOUTH @ TRESTLE	2035	.
003	15-May-89	SLR RIVERMOUTH @ TRESTLE	60	
003	22-May-89	SLR RIVERMOUTH @ TRESTLE	200	
003	30-May-89	SLR RIVERMOUTH @ TRESTLE	95	
003	6-Jun-89	SLR RIVERMOUTH @ TRESTLE	880	
003	7-Jun-89	SLR RIVERMOUTH @ TRESTLE	1740	
003	12-Jun-89	SLR RIVERMOUTH @ TRESTLE	270	
003	19-Jun-89	SLR RIVERMOUTH @ TRESTLE	325	
003	27-Jun-89	SLR RIVERMOUTH @ TRESTLE	630	
003	3-Jul-89	SLR RIVERMOUTH @ TRESTLE	245	
003	5-Jul-89	SLR RIVERMOUTH @ TRESTLE	190	
003	11-Jul-89	SLR RIVERMOUTH @ TRESTLE	336	
003	17-Jul-89	SLR RIVERMOUTH @ TRESTLE	292	
003	24-Jul-89	SLR RIVERMOUTH @ TRESTLE	180	
003	1-Aug-89	SLR RIVERMOUTH @ TRESTLE	604	
003	2-Aug-89	SLR RIVERMOUTH @ TRESTLE	184	
003	9-Aug-89	SLR RIVERMOUTH @ TRESTLE	24	
003	15-Aug-89	SLR RIVERMOUTH @ TRESTLE	8	
003	21-Aug-89	SLR RIVERMOUTH @ TRESTLE	48	
003	29-Aug-89	SLR RIVERMOUTH @ TRESTLE	16	
003	5-Sep-89	SLR RIVERMOUTH @ TRESTLE	80	
003	6-Sep-89	SLR RIVERMOUTH @ TRESTLE	40	
003	12-Sep-89	SLR RIVERMOUTH @ TRESTLE	860	
003	19-Sep-89	SLR RIVERMOUTH @ TRESTLE	1400	
003	25-Sep-89	SLR RIVERMOUTH @ TRESTLE	130	
003	4-Oct-89	SLR RIVERMOUTH @ TRESTLE	240	
003	10-Oct-89	SLR RIVERMOUTH @ TRESTLE	120	
003	25-Oct-89	SLR RIVERMOUTH @ TRESTLE	4160	
003	30-Oct-89	SLR RIVERMOUTH @ TRESTLE	640	
003	6-Nov-89	SLR RIVERMOUTH @ TRESTLE	409	
003	7-Nov-89	SLR RIVERMOUTH @ TRESTLE	540	
003	14-Nov-89	SLR RIVERMOUTH @ TRESTLE	280	
003	20-Nov-89	SLR RIVERMOUTH @ TRESTLE	480	
003	27-Nov-89	SLR RIVERMOUTH @ TRESTLE	5250	
003	4-Dec-89	SLR RIVERMOUTH @ TRESTLE	220	
003	5-Dec-89	SLR RIVERMOUTH @ TRESTLE	100	
003	11-Dec-89	SLR RIVERMOUTH @ TRESTLE	116	
003	18-Dec-89	SLR RIVERMOUTH @ TRESTLE	184	
003	26-Dec-89	SLR RIVERMOUTH @ TRESTLE	96	
003	2-Jan-90	SLR RIVERMOUTH @ TRESTLE	460	
003	3-Jan-90	SLR RIVERMOUTH @ TRESTLE	90	
003	8-Jan-90	SLR RIVERMOUTH @ TRESTLE	100	
003	16-Jan-90	SLR RIVERMOUTH @ TRESTLE	900	
003	22-Jan-90	SLR RIVERMOUTH @ TRESTLE	70	
003	29-Jan-90	SLR RIVERMOUTH @ TRESTLE	55	
003	5-Feb-90	SLR RIVERMOUTH @ TRESTLE	470	
003	6-Feb-90	SLR RIVERMOUTH @ TRESTLE	400	
003	12-Feb-90	SLR RIVERMOUTH @ TRESTLE	510	
003	20-Feb-90	SLR RIVERMOUTH @ TRESTLE	230	
003	26-Feb-90	SLR RIVERMOUTH @ TRESTLE	1980	
003	5-Mar-90	SLR RIVERMOUTH @ TRESTLE	570	
003	7-Mar-90	SLR RIVERMOUTH @ TRESTLE	410	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	12-Mar-90	SLR RIVERMOUTH @ TRESTLE	310	
003	19-Mar-90	SLR RIVERMOUTH @ TRESTLE	380	
003	26-Mar-90	SLR RIVERMOUTH @ TRESTLE	56	
003	2-Apr-90	SLR RIVERMOUTH @ TRESTLE	464	
003	3-Apr-90	SLR RIVERMOUTH @ TRESTLE	140	
003	9-Apr-90	SLR RIVERMOUTH @ TRESTLE	228	
003	16-Apr-90	SLR RIVERMOUTH @ TRESTLE	1384	
003	19-Apr-90	SLR RIVERMOUTH @ TRESTLE	740	
003	23-Apr-90	SLR RIVERMOUTH @ TRESTLE	1650	
003	30-Apr-90	SLR RIVERMOUTH @ TRESTLE	1124	
003	2-May-90	SLR RIVERMOUTH @ TRESTLE	310	
003	7-May-90	SLR RIVERMOUTH @ TRESTLE	304	
003	29-May-90	SLR RIVERMOUTH @ TRESTLE	2860	
003	31-May-90	SLR RIVERMOUTH @ TRESTLE	4800	
003	4-Jun-90	SLR RIVERMOUTH @ TRESTLE	350	
003	5-Jun-90	SLR RIVERMOUTH @ TRESTLE	200	
003	11-Jun-90	SLR RIVERMOUTH @ TRESTLE	350	
003	25-Jun-90	SLR RIVERMOUTH @ TRESTLE	120	
003	25-Jun-90	SLR RIVERMOUTH @ TRESTLE	1160	
003	2-Jul-90	SLR RIVERMOUTH @ TRESTLE	170	
003	9-Jul-90	SLR RIVERMOUTH @ TRESTLE	220	
003	10-Jul-90	SLR RIVERMOUTH @ TRESTLE	220	
003	16-Jul-90	SLR RIVERMOUTH @ TRESTLE	150	
003	23-Jul-90	SLR RIVERMOUTH @ TRESTLE	75	
003	30-Jul-90	SLR RIVERMOUTH @ TRESTLE	196	
003	6-Aug-90	SLR RIVERMOUTH @ TRESTLE	192	
003	8-Aug-90	SLR RIVERMOUTH @ TRESTLE	452	
003	14-Aug-90	SLR RIVERMOUTH @ TRESTLE	100	
003	21-Aug-90	SLR RIVERMOUTH @ TRESTLE	90	
003	27-Aug-90	SLR RIVERMOUTH @ TRESTLE	130	
003	4-Sep-90	SLR RIVERMOUTH @ TRESTLE	255	
003	5-Sep-90	SLR RIVERMOUTH @ TRESTLE	65	
003	10-Sep-90	SLR RIVERMOUTH @ TRESTLE	1425	
003	17-Sep-90	SLR RIVERMOUTH @ TRESTLE	20	
003	24-Sep-90	SLR RIVERMOUTH @ TRESTLE	2205	
003	3-Oct-90	SLR RIVERMOUTH @ TRESTLE	80	
003	9-Oct-90	SLR RIVERMOUTH @ TRESTLE	20	
003	10-Oct-90	SLR RIVERMOUTH @ TRESTLE	10	
003	15-Oct-90	SLR RIVERMOUTH @ TRESTLE	25	
003	22-Oct-90	SLR RIVERMOUTH @ TRESTLE	40	
003	30-Oct-90	SLR RIVERMOUTH @ TRESTLE	66	
003	5-Nov-90	SLR RIVERMOUTH @ TRESTLE	30	
003	6-Nov-90	SLR RIVERMOUTH @ TRESTLE	566	
003	14-Nov-90	SLR RIVERMOUTH @ TRESTLE	685	
003	19-Nov-90	SLR RIVERMOUTH @ TRESTLE	400	
003	27-Nov-90	SLR RIVERMOUTH @ TRESTLE	685	
003	4-Dec-90	SLR RIVERMOUTH @ TRESTLE	0.9	
003	5-Dec-90	SLR RIVERMOUTH @ TRESTLE	10	
003	10-Dec-90	SLR RIVERMOUTH @ TRESTLE	210	
003	17-Dec-90	SLR RIVERMOUTH @ TRESTLE	300	
003	31-Dec-90	SLR RIVERMOUTH @ TRESTLE	10	
003	2-Jan-91	SLR RIVERMOUTH @ TRESTLE	10	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	7-Jan-91	SLR RIVERMOUTH @ TRESTLE	2475	
003	14-Jan-91	SLR RIVERMOUTH @ TRESTLE	280	
003	22-Jan-91	SLR RIVERMOUTH @ TRESTLE	360	
003	28-Jan-91	SLR RIVERMOUTH @ TRESTLE	25	
003	11-Feb-91	SLR RIVERMOUTH @ TRESTLE	3250	
003	12-Feb-91	SLR RIVERMOUTH @ TRESTLE	670	
003	19-Feb-91	SLR RIVERMOUTH @ TRESTLE	1455	
003	25-Feb-91	SLR RIVERMOUTH @ TRESTLE	85	
003	6-Mar-91	SLR RIVERMOUTH @ TRESTLE	1500	
003	11-Mar-91	SLR RIVERMOUTH @ TRESTLE	1780	
003	18-Mar-91	SLR RIVERMOUTH @ TRESTLE	2020	
003	19-Mar-91	SLR RIVERMOUTH @ TRESTLE	1680	
003	1-Apr-91	SLR RIVERMOUTH @ TRESTLE	310	
003	2-Apr-91	SLR RIVERMOUTH @ TRESTLE	610	
003	9-Apr-91	SLR RIVERMOUTH @ TRESTLE	2890	
003	15-Apr-91	SLR RIVERMOUTH @ TRESTLE	435	
003	22-Apr-91	SLR RIVERMOUTH @ TRESTLE	160	
003	29-Apr-91	SLR RIVERMOUTH @ TRESTLE	50	
003	6-May-91	SLR RIVERMOUTH @ TRESTLE	405	
003	7-May-91	SLR RIVERMOUTH @ TRESTLE	920	
003	13-May-91	SLR RIVERMOUTH @ TRESTLE	70	
003	20-May-91	SLR RIVERMOUTH @ TRESTLE	1020	
003	28-May-91	SLR RIVERMOUTH @ TRESTLE	180	
003	3-Jun-91	SLR RIVERMOUTH @ TRESTLE	1180	
003	4-Jun-91	SLR RIVERMOUTH @ TRESTLE	1015	
003	10-Jun-91	SLR RIVERMOUTH @ TRESTLE	1120	
003	24-Jun-91	SLR RIVERMOUTH @ TRESTLE	520	
003	26-Jun-91	SLR RIVERMOUTH @ TRESTLE	80	
003	2-Jul-91	SLR RIVERMOUTH @ TRESTLE	770	
003	3-Jul-91	SLR RIVERMOUTH @ TRESTLE	590	
003	8-Jul-91	SLR RIVERMOUTH @ TRESTLE	440	
003	15-Jul-91	SLR RIVERMOUTH @ TRESTLE	350	
003	24-Jul-91	SLR RIVERMOUTH @ TRESTLE	250	
003	30-Jul-91	SLR RIVERMOUTH @ TRESTLE	695	
003	7-Aug-91	SLR RIVERMOUTH @ TRESTLE	1902	
003	13-Aug-91	SLR RIVERMOUTH @ TRESTLE	250	
003	19-Aug-91	SLR RIVERMOUTH @ TRESTLE	1825	
003	3-Sep-91	SLR RIVERMOUTH @ TRESTLE	1130	
003	10-Sep-91	SLR RIVERMOUTH @ TRESTLE	260	
003	11-Sep-91	SLR RIVERMOUTH @ TRESTLE	215	
003	16-Sep-91	SLR RIVERMOUTH @ TRESTLE	205	
003	23-Sep-91	SLR RIVERMOUTH @ TRESTLE	90	
003	30-Sep-91	SLR RIVERMOUTH @ TRESTLE	230	
003	7-Oct-91	SLR RIVERMOUTH @ TRESTLE	55	
003	15-Oct-91	SLR RIVERMOUTH @ TRESTLE	0.9	
003	22-Oct-91	SLR RIVERMOUTH @ TRESTLE	0.9	
003	28-Oct-91	SLR RIVERMOUTH @ TRESTLE	4420	
003	4-Nov-91	SLR RIVERMOUTH @ TRESTLE	2210	
003	5-Nov-91	SLR RIVERMOUTH @ TRESTLE	2600	
003	12-Nov-91	SLR RIVERMOUTH @ TRESTLE	530	
003	18-Nov-91	SLR RIVERMOUTH @ TRESTLE	3320	
003	25-Nov-91	SLR RIVERMOUTH @ TRESTLE	1110	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	2-Dec-91	SLR RIVERMOUTH @ TRESTLE	0.9	
003	3-Dec-91	SLR RIVERMOUTH @ TRESTLE	156	
003	9-Dec-91	SLR RIVERMOUTH @ TRESTLE	16	
003	23-Dec-91	SLR RIVERMOUTH @ TRESTLE	324	
003	8-Jan-92	SLR RIVERMOUTH @ TRESTLE	810	
003	13-Jan-92	SLR RIVERMOUTH @ TRESTLE	40	
003	14-Jan-92	SLR RIVERMOUTH @ TRESTLE	90	
003	21-Jan-92	SLR RIVERMOUTH @ TRESTLE	75	
003	27-Jan-92	SLR RIVERMOUTH @ TRESTLE	370	
003	3-Feb-92	SLR RIVERMOUTH @ TRESTLE	130	
003	4-Feb-92	SLR RIVERMOUTH @ TRESTLE	56	
003	5-Feb-92	SLR RIVERMOUTH @ TRESTLE	76	
003	11-Feb-92	SLR RIVERMOUTH @ TRESTLE	3390	
003	19-Feb-92	SLR RIVERMOUTH @ TRESTLE	990	
003	24-Feb-92	SLR RIVERMOUTH @ TRESTLE	220	
003	2-Mar-92	SLR RIVERMOUTH @ TRESTLE	740	
003	4-Mar-92	SLR RIVERMOUTH @ TRESTLE	950	
003	9-Mar-92	SLR RIVERMOUTH @ TRESTLE	360	
003	16-Mar-92	SLR RIVERMOUTH @ TRESTLE	2780	
003	31-Mar-92	SLR RIVERMOUTH @ TRESTLE	120	
003	7-Apr-92	SLR RIVERMOUTH @ TRESTLE	430	
003	13-Apr-92	SLR RIVERMOUTH @ TRESTLE	610	
003	14-Apr-92	SLR RIVERMOUTH @ TRESTLE	640	
003	20-Apr-92	SLR RIVERMOUTH @ TRESTLE	730	
003	27-Apr-92	SLR RIVERMOUTH @ TRESTLE	965	
003	4-May-92	SLR RIVERMOUTH @ TRESTLE	1760	
003	5-May-92	SLR RIVERMOUTH @ TRESTLE	85	
003	11-May-92	SLR RIVERMOUTH @ TRESTLE	450	
003	18-May-92	SLR RIVERMOUTH @ TRESTLE	135	
003	26-May-92	SLR RIVERMOUTH @ TRESTLE	1065	
003	1-Jun-92	SLR RIVERMOUTH @ TRESTLE	570	
003	2-Jun-92	SLR RIVERMOUTH @ TRESTLE	5	
003	8-Jun-92	SLR RIVERMOUTH @ TRESTLE	420	
003	15-Jun-92	SLR RIVERMOUTH @ TRESTLE	15	
003	22-Jun-92	SLR RIVERMOUTH @ TRESTLE	878	
003	29-Jun-92	SLR RIVERMOUTH @ TRESTLE	50	
003	6-Jul-92	SLR RIVERMOUTH @ TRESTLE	105	
003	7-Jul-92	SLR RIVERMOUTH @ TRESTLE	310	
003	13-Jul-92	SLR RIVERMOUTH @ TRESTLE	630	
003	22-Jul-92	SLR RIVERMOUTH @ TRESTLE	65	
003	27-Jul-92	SLR RIVERMOUTH @ TRESTLE	425	
003	3-Aug-92	SLR RIVERMOUTH @ TRESTLE	325	
003	4-Aug-92	SLR RIVERMOUTH @ TRESTLE	545	
003	10-Aug-92	SLR RIVERMOUTH @ TRESTLE	135	
003	17-Aug-92	SLR RIVERMOUTH @ TRESTLE	90	
003	24-Aug-92	SLR RIVERMOUTH @ TRESTLE	104	
003	31-Aug-92	SLR RIVERMOUTH @ TRESTLE	1295	
003	8-Sep-92	SLR RIVERMOUTH @ TRESTLE	125	
003	14-Sep-92	SLR RIVERMOUTH @ TRESTLE	25	
003	21-Sep-92	SLR RIVERMOUTH @ TRESTLE	35	
003	23-Sep-92	SLR RIVERMOUTH @ TRESTLE	40	
003	28-Sep-92	SLR RIVERMOUTH @ TRESTLE	80	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	5-Oct-92	SLR RIVERMOUTH @ TRESTLE	52	
003	7-Oct-92	SLR RIVERMOUTH @ TRESTLE	22	
003	13-Oct-92	SLR RIVERMOUTH @ TRESTLE	200	
003	20-Oct-92	SLR RIVERMOUTH @ TRESTLE	42	
003	27-Oct-92	SLR RIVERMOUTH @ TRESTLE	24	
003	2-Nov-92	SLR RIVERMOUTH @ TRESTLE	536	
003	3-Nov-92	SLR RIVERMOUTH @ TRESTLE	628	
003	10-Nov-92	SLR RIVERMOUTH @ TRESTLE	2	
003	17-Nov-92	SLR RIVERMOUTH @ TRESTLE	368	
003	23-Nov-92	SLR RIVERMOUTH @ TRESTLE	134	
003	8-Dec-92	SLR RIVERMOUTH @ TRESTLE	980	
003	21-Dec-92	SLR RIVERMOUTH @ TRESTLE	256	
003	22-Dec-92	SLR RIVERMOUTH @ TRESTLE	252	
003	29-Dec-92	SLR RIVERMOUTH @ TRESTLE	2334	
003	5-Jan-93	SLR RIVERMOUTH @ TRESTLE	218	
003	12-Jan-93	SLR RIVERMOUTH @ TRESTLE	0.9	
003	19-Jan-93	SLR RIVERMOUTH @ TRESTLE	0.9	
003	2-Feb-93	SLR RIVERMOUTH @ TRESTLE	144	
003	9-Feb-93	SLR RIVERMOUTH @ TRESTLE	1420	
003	16-Feb-93	SLR RIVERMOUTH @ TRESTLE	404	
003	24-Feb-93	SLR RIVERMOUTH @ TRESTLE	330	
003	2-Mar-93	SLR RIVERMOUTH @ TRESTLE	560	
003	3-Mar-93	SLR RIVERMOUTH @ TRESTLE	968	
003	10-Mar-93	SLR RIVERMOUTH @ TRESTLE	1448	
003	17-Mar-93	SLR RIVERMOUTH @ TRESTLE	2850	
003	22-Mar-93	SLR RIVERMOUTH @ TRESTLE	548	
003	29-Mar-93	SLR RIVERMOUTH @ TRESTLE	220	
003	5-Apr-93	SLR RIVERMOUTH @ TRESTLE	184	
003	12-Apr-93	SLR RIVERMOUTH @ TRESTLE	234	
003	19-Apr-93	SLR RIVERMOUTH @ TRESTLE	576	
003	20-Apr-93	SLR RIVERMOUTH @ TRESTLE	260	
003	26-Apr-93	SLR RIVERMOUTH @ TRESTLE	448	
003	5-May-93	SLR RIVERMOUTH @ TRESTLE	208	
003	11-May-93	SLR RIVERMOUTH @ TRESTLE	1080	
003	12-May-93	SLR RIVERMOUTH @ TRESTLE	416	
003	17-May-93	SLR RIVERMOUTH @ TRESTLE	176	
003	25-May-93	SLR RIVERMOUTH @ TRESTLE	2590	
003	1-Jun-93	SLR RIVERMOUTH @ TRESTLE	260	
003	7-Jun-93	SLR RIVERMOUTH @ TRESTLE	672	
003	8-Jun-93	SLR RIVERMOUTH @ TRESTLE	908	
003	22-Jun-93	SLR RIVERMOUTH @ TRESTLE	464	
003	29-Jun-93	SLR RIVERMOUTH @ TRESTLE	710	
003	6-Jul-93	SLR RIVERMOUTH @ TRESTLE	60	
003	8-Jul-93	SLR RIVERMOUTH @ TRESTLE	576	
003	13-Jul-93	SLR RIVERMOUTH @ TRESTLE	784	
003	20-Jul-93	SLR RIVERMOUTH @ TRESTLE	88	
003	27-Jul-93	SLR RIVERMOUTH @ TRESTLE	752	
003	3-Aug-93	SLR RIVERMOUTH @ TRESTLE	4104	
003	10-Aug-93	SLR RIVERMOUTH @ TRESTLE	1206	
003	11-Aug-93	SLR RIVERMOUTH @ TRESTLE	884	
003	17-Aug-93	SLR RIVERMOUTH @ TRESTLE	122	
003	24-Aug-93	SLR RIVERMOUTH @ TRESTLE	1338	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	3-Sep-93	SLR RIVERMOUTH @ TRESTLE	672	
003	9-Sep-93	SLR RIVERMOUTH @ TRESTLE	172	
003	13-Sep-93	SLR RIVERMOUTH @ TRESTLE	412	
003	14-Sep-93	SLR RIVERMOUTH @ TRESTLE	216	
003	20-Sep-93	SLR RIVERMOUTH @ TRESTLE	996	
003	23-Sep-93	SLR RIVERMOUTH @ TRESTLE	1670	
003	27-Sep-93	SLR RIVERMOUTH @ TRESTLE	156	
003	4-Oct-93	SLR RIVERMOUTH @ TRESTLE	704	
003	13-Oct-93	SLR RIVERMOUTH @ TRESTLE	585	
003	18-Oct-93	SLR RIVERMOUTH @ TRESTLE	100	
003	25-Oct-93	SLR RIVERMOUTH @ TRESTLE	1552	
003	1-Nov-93	SLR RIVERMOUTH @ TRESTLE	410	
003	8-Nov-93	SLR RIVERMOUTH @ TRESTLE	172	
003	9-Nov-93	SLR RIVERMOUTH @ TRESTLE	106	
003	15-Nov-93	SLR RIVERMOUTH @ TRESTLE	28	
003	20-Nov-93	SLR RIVERMOUTH @ TRESTLE	956	
003	23-Nov-93	SLR RIVERMOUTH @ TRESTLE	344	
003	2-Dec-93	SLR RIVERMOUTH @ TRESTLE	1760	
003	6-Dec-93	SLR RIVERMOUTH @ TRESTLE	90	
003	7-Dec-93	SLR RIVERMOUTH @ TRESTLE	464	
003	14-Dec-93	SLR RIVERMOUTH @ TRESTLE	1190	
003	20-Dec-93	SLR RIVERMOUTH @ TRESTLE	524	
003	3-Jan-94	SLR RIVERMOUTH @ TRESTLE	468	
003	4-Jan-94	SLR RIVERMOUTH @ TRESTLE	300	
003	10-Jan-94	SLR RIVERMOUTH @ TRESTLE	280	
003	19-Jan-94	SLR RIVERMOUTH @ TRESTLE	652	
003	25-Jan-94	SLR RIVERMOUTH @ TRESTLE	0.9	
003	31-Jan-94	SLR RIVERMOUTH @ TRESTLE	424	
003	9-Feb-94	SLR RIVERMOUTH @ TRESTLE	330	
003	15-Feb-94	SLR RIVERMOUTH @ TRESTLE	268	
003	16-Feb-94	SLR RIVERMOUTH @ TRESTLE	152	
003	22-Feb-94	SLR RIVERMOUTH @ TRESTLE	330	
003	2-Mar-94	SLR RIVERMOUTH @ TRESTLE	212	
003	7-Mar-94	SLR RIVERMOUTH @ TRESTLE	396	
003	9-Mar-94	SLR RIVERMOUTH @ TRESTLE	224	
003	15-Mar-94	SLR RIVERMOUTH @ TRESTLE	72	
003	23-Mar-94	SLR RIVERMOUTH @ TRESTLE	216	
003	5-Apr-94	SLR RIVERMOUTH @ TRESTLE	596	
003	11-Apr-94	SLR RIVERMOUTH @ TRESTLE	228	
003	12-Apr-94	SLR RIVERMOUTH @ TRESTLE	332	
003	20-Apr-94	SLR RIVERMOUTH @ TRESTLE	124	
003	26-Apr-94	SLR RIVERMOUTH @ TRESTLE	150	
003	5-May-94	SLR RIVERMOUTH @ TRESTLE	216	
003	9-May-94	SLR RIVERMOUTH @ TRESTLE	220	
003	16-May-94	SLR RIVERMOUTH @ TRESTLE	650	
003	24-May-94	SLR RIVERMOUTH @ TRESTLE	24	
003	30-May-94	SLR RIVERMOUTH @ TRESTLE	284	
003	6-Jun-94	SLR RIVERMOUTH @ TRESTLE	140	
003	21-Jun-94	SLR RIVERMOUTH @ TRESTLE	48	
003	27-Jun-94	SLR RIVERMOUTH @ TRESTLE	764	
003	28-Jun-94	SLR RIVERMOUTH @ TRESTLE	740	
003	11-Jul-94	SLR RIVERMOUTH @ TRESTLE	1180	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	12-Jul-94	SLR RIVERMOUTH @ TRESTLE	1260	
003	19-Jul-94	SLR RIVERMOUTH @ TRESTLE	164	
003	25-Jul-94	SLR RIVERMOUTH @ TRESTLE	0.9	
003	2-Aug-94	SLR RIVERMOUTH @ TRESTLE	1116	
003	3-Aug-94	SLR RIVERMOUTH @ TRESTLE	296	
003	10-Aug-94	SLR RIVERMOUTH @ TRESTLE	240	
003	17-Aug-94	SLR RIVERMOUTH @ TRESTLE	248	
003	23-Aug-94	SLR RIVERMOUTH @ TRESTLE	160	
003	30-Aug-94	SLR RIVERMOUTH @ TRESTLE	436	
003	6-Sep-94	SLR RIVERMOUTH @ TRESTLE	352	
003	13-Sep-94	SLR RIVERMOUTH @ TRESTLE	244	
003	14-Sep-94	SLR RIVERMOUTH @ TRESTLE	948	
003	20-Sep-94	SLR RIVERMOUTH @ TRESTLE	196	
003	27-Sep-94	SLR RIVERMOUTH @ TRESTLE	672	
003	4-Oct-94	SLR RIVERMOUTH @ TRESTLE	472	
003	11-Oct-94	SLR RIVERMOUTH @ TRESTLE	48	
003	12-Oct-94	SLR RIVERMOUTH @ TRESTLE	270	
003	18-Oct-94	SLR RIVERMOUTH @ TRESTLE	24	
003	25-Oct-94	SLR RIVERMOUTH @ TRESTLE	40	
003	1-Nov-94	SLR RIVERMOUTH @ TRESTLE	80	
003	3-Nov-94	SLR RIVERMOUTH @ TRESTLE	48	
003	8-Nov-94	SLR RIVERMOUTH @ TRESTLE	1240	
003	15-Nov-94	SLR RIVERMOUTH @ TRESTLE	2440	
003	22-Nov-94	SLR RIVERMOUTH @ TRESTLE	300	
003	29-Nov-94	SLR RIVERMOUTH @ TRESTLE	40	
003	6-Dec-94	SLR RIVERMOUTH @ TRESTLE	200	
003	15-Dec-94	SLR RIVERMOUTH @ TRESTLE	880	
003	21-Dec-94	SLR RIVERMOUTH @ TRESTLE	210	
003	22-Dec-94	SLR RIVERMOUTH @ TRESTLE	260	
003	27-Dec-94	SLR RIVERMOUTH @ TRESTLE	270	
003	3-Jan-95	SLR RIVERMOUTH @ TRESTLE	2220	
003	11-Jan-95	SLR RIVERMOUTH @ TRESTLE	420	
003	19-Jan-95	SLR RIVERMOUTH @ TRESTLE	380	
003	23-Jan-95	SLR RIVERMOUTH @ TRESTLE	2280	
003	30-Jan-95	SLR RIVERMOUTH @ TRESTLE	480	
003	6-Feb-95	SLR RIVERMOUTH @ TRESTLE	2480	
003	13-Feb-95	SLR RIVERMOUTH @ TRESTLE	940	
003	14-Feb-95	SLR RIVERMOUTH @ TRESTLE	530	
003	21-Feb-95	SLR RIVERMOUTH @ TRESTLE	980	
003	27-Feb-95	SLR RIVERMOUTH @ TRESTLE	840	
003	1-Mar-95	SLR RIVERMOUTH @ TRESTLE	630	
003	6-Mar-95	SLR RIVERMOUTH @ TRESTLE	500	
003	13-Mar-95	SLR RIVERMOUTH @ TRESTLE	750	
003	20-Mar-95	SLR RIVERMOUTH @ TRESTLE	2380	
003	27-Mar-95	SLR RIVERMOUTH @ TRESTLE	200	
003	3-Apr-95	SLR RIVERMOUTH @ TRESTLE	360	
003	10-Apr-95	SLR RIVERMOUTH @ TRESTLE	120	
003	11-Apr-95	SLR RIVERMOUTH @ TRESTLE	440	
003	17-Apr-95	SLR RIVERMOUTH @ TRESTLE	310	
003	24-Apr-95	SLR RIVERMOUTH @ TRESTLE	110	
003	1-May-95	SLR RIVERMOUTH @ TRESTLE	1660	
003	8-May-95	SLR RIVERMOUTH @ TRESTLE	340	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	11-May-95	SLR RIVERMOUTH @ TRESTLE	372	
003	15-May-95	SLR RIVERMOUTH @ TRESTLE	350	
003	22-May-95	SLR RIVERMOUTH @ TRESTLE	190	
003	1-Jun-95	SLR RIVERMOUTH @ TRESTLE	260	
003	5-Jun-95	SLR RIVERMOUTH @ TRESTLE	3460	
003	6-Jun-95	SLR RIVERMOUTH @ TRESTLE	240	
003	12-Jun-95	SLR RIVERMOUTH @ TRESTLE	300	
003	19-Jun-95	SLR RIVERMOUTH @ TRESTLE	230	
003	26-Jun-95	SLR RIVERMOUTH @ TRESTLE	830	
003	6-Jul-95	SLR RIVERMOUTH @ TRESTLE	500	
003	10-Jul-95	SLR RIVERMOUTH @ TRESTLE	220	
003	17-Jul-95	SLR RIVERMOUTH @ TRESTLE	350	
003	24-Jul-95	SLR RIVERMOUTH @ TRESTLE	50	
003	26-Jul-95	SLR RIVERMOUTH @ TRESTLE	84	
003	1-Aug-95	SLR RIVERMOUTH @ TRESTLE	2370	
003	7-Aug-95	SLR RIVERMOUTH @ TRESTLE	1580	
003	14-Aug-95	SLR RIVERMOUTH @ TRESTLE	1300	
003	17-Aug-95	SLR RIVERMOUTH @ TRESTLE	148	
003	21-Aug-95	SLR RIVERMOUTH @ TRESTLE	620	
003	23-Aug-95	SLR RIVERMOUTH @ TRESTLE	1590	
003	31-Aug-95	SLR RIVERMOUTH @ TRESTLE	1020	
003	5-Sep-95	SLR RIVERMOUTH @ TRESTLE	570	
003	12-Sep-95	SLR RIVERMOUTH @ TRESTLE	280	
003	19-Sep-95	SLR RIVERMOUTH @ TRESTLE	1070	
003	20-Sep-95	SLR RIVERMOUTH @ TRESTLE	1012	
003	26-Sep-95	SLR RIVERMOUTH @ TRESTLE	110	
003	3-Oct-95	SLR RIVERMOUTH @ TRESTLE	300	
003	10-Oct-95	SLR RIVERMOUTH @ TRESTLE	290	
003	17-Oct-95	SLR RIVERMOUTH @ TRESTLE	290	
003	19-Oct-95	SLR RIVERMOUTH @ TRESTLE	850	
003	24-Oct-95	SLR RIVERMOUTH @ TRESTLE	640	
003	30-Oct-95	SLR RIVERMOUTH @ TRESTLE	430	
003	7-Nov-95	SLR RIVERMOUTH @ TRESTLE	100	
003	13-Nov-95	SLR RIVERMOUTH @ TRESTLE	400	
003	14-Nov-95	SLR RIVERMOUTH @ TRESTLE	236	
003	21-Nov-95	SLR RIVERMOUTH @ TRESTLE	776	
003	29-Nov-95	SLR RIVERMOUTH @ TRESTLE	950	
003	4-Dec-95	SLR RIVERMOUTH @ TRESTLE	2950	
003	5-Dec-95	SLR RIVERMOUTH @ TRESTLE	1300	
003	13-Dec-95	SLR RIVERMOUTH @ TRESTLE	1270	
003	18-Dec-95	SLR RIVERMOUTH @ TRESTLE	2120	
003	21-Dec-95	SLR RIVERMOUTH @ TRESTLE	1980	
003	26-Dec-95	SLR RIVERMOUTH @ TRESTLE	180	
003	2-Jan-96	SLR RIVERMOUTH @ TRESTLE	350	
003	3-Jan-96	SLR RIVERMOUTH @ TRESTLE	820	
003	11-Jan-96	SLR RIVERMOUTH @ TRESTLE	3270	
003	17-Jan-96	SLR RIVERMOUTH @ TRESTLE	2300	
003	18-Jan-96	SLR RIVERMOUTH @ TRESTLE	14700	
003	22-Jan-96	SLR RIVERMOUTH @ TRESTLE	3560	
003	23-Jan-96	SLR RIVERMOUTH @ TRESTLE	1350	
003	6-Feb-96	SLR RIVERMOUTH @ TRESTLE	800	
003	14-Feb-96	SLR RIVERMOUTH @ TRESTLE	316	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	15-Feb-96	SLR RIVERMOUTH @ TRESTLE	1660	
003	20-Feb-96	SLR RIVERMOUTH @ TRESTLE	550	
003	26-Feb-96	SLR RIVERMOUTH @ TRESTLE	140	
003	29-Feb-96	SLR RIVERMOUTH @ TRESTLE	1620	
003	6-Mar-96	SLR RIVERMOUTH @ TRESTLE	640	
003	19-Mar-96	SLR RIVERMOUTH @ TRESTLE	870	
003	21-Mar-96	SLR RIVERMOUTH @ TRESTLE	196	
003	25-Mar-96	SLR RIVERMOUTH @ TRESTLE	152	
003	2-Apr-96	SLR RIVERMOUTH @ TRESTLE	1120	
003	3-Apr-96	SLR RIVERMOUTH @ TRESTLE	200	
003	8-Apr-96	SLR RIVERMOUTH @ TRESTLE	708	
003	15-Apr-96	SLR RIVERMOUTH @ TRESTLE	696	
003	22-Apr-96	SLR RIVERMOUTH @ TRESTLE	280	
003	25-Apr-96	SLR RIVERMOUTH @ TRESTLE	730	
003	1-May-96	SLR RIVERMOUTH @ TRESTLE	416	
003	6-May-96	SLR RIVERMOUTH @ TRESTLE	240	
003	13-May-96	SLR RIVERMOUTH @ TRESTLE	184	
003	20-May-96	SLR RIVERMOUTH @ TRESTLE	524	
003	29-May-96	SLR RIVERMOUTH @ TRESTLE	500	
003	5-Jun-96	SLR RIVERMOUTH @ TRESTLE	490	
003	10-Jun-96	SLR RIVERMOUTH @ TRESTLE	120	
003	11-Jun-96	SLR RIVERMOUTH @ TRESTLE	116	
003	18-Jun-96	SLR RIVERMOUTH @ TRESTLE	330	
003	25-Jun-96	SLR RIVERMOUTH @ TRESTLE	320	
003	26-Jun-96	SLR RIVERMOUTH @ TRESTLE	240	
003	9-Jul-96	SLR RIVERMOUTH @ TRESTLE	404	
003	18-Jul-96	SLR RIVERMOUTH @ TRESTLE	1496	3500
003	24-Jul-96	SLR RIVERMOUTH @ TRESTLE	2284	7100
003	21-Aug-96	SLR RIVERMOUTH @ TRESTLE	1530	
003	23-Aug-96	SLR RIVERMOUTH @ TRESTLE	300	200
003	27-Aug-96	SLR RIVERMOUTH @ TRESTLE	210	1100
003	1-Sep-96	SLR RIVERMOUTH @ TRESTLE	200	
003	9-Sep-96	SLR RIVERMOUTH @ TRESTLE	170	
003	16-Sep-96	SLR RIVERMOUTH @ TRESTLE	260	
003	23-Sep-96	SLR RIVERMOUTH @ TRESTLE	270	220
003	1-Oct-96	SLR RIVERMOUTH @ TRESTLE	150	
003	7-Oct-96	SLR RIVERMOUTH @ TRESTLE	750	1820
003	17-Oct-96	SLR RIVERMOUTH @ TRESTLE	140	
003	23-Oct-96	SLR RIVERMOUTH @ TRESTLE	80	1160
003	29-Oct-96	SLR RIVERMOUTH @ TRESTLE	12200	
003	7-Nov-96	SLR RIVERMOUTH @ TRESTLE	30	
003	12-Nov-96	SLR RIVERMOUTH @ TRESTLE	630	
003	26-Nov-96	SLR RIVERMOUTH @ TRESTLE	380	
003	3-Dec-96	SLR RIVERMOUTH @ TRESTLE	50	
003	18-Dec-96	SLR RIVERMOUTH @ TRESTLE	240	2400
003	2-Jan-97	SLR RIVERMOUTH @ TRESTLE	940	5300
003	6-Jan-97	SLR RIVERMOUTH @ TRESTLE	120	
003	15-Jan-97	SLR RIVERMOUTH @ TRESTLE	1500	
003	27-Jan-97	SLR RIVERMOUTH @ TRESTLE	100	
003	3-Feb-97	SLR RIVERMOUTH @ TRESTLE	310	2000
003	13-Feb-97	SLR RIVERMOUTH @ TRESTLE	44	
003	19-Feb-97	SLR RIVERMOUTH @ TRESTLE	140	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	24-Feb-97	SLR RIVERMOUTH @ TRESTLE	220	
003	3-Mar-97	SLR RIVERMOUTH @ TRESTLE	70	
003	10-Mar-97	SLR RIVERMOUTH @ TRESTLE	20	
003	19-Mar-97	SLR RIVERMOUTH @ TRESTLE	100	
003	31-Mar-97	SLR RIVERMOUTH @ TRESTLE	170	
003	10-Apr-97	SLR RIVERMOUTH @ TRESTLE	100	
003	14-Apr-97	SLR RIVERMOUTH @ TRESTLE	30	
003	21-Apr-97	SLR RIVERMOUTH @ TRESTLE	100	
003	30-Apr-97	SLR RIVERMOUTH @ TRESTLE	1190	
003	6-May-97	SLR RIVERMOUTH @ TRESTLE	50	
003	12-May-97	SLR RIVERMOUTH @ TRESTLE	728	
003	21-May-97	SLR RIVERMOUTH @ TRESTLE	70	
003	2-Jun-97	SLR RIVERMOUTH @ TRESTLE	10	
003	10-Jun-97	SLR RIVERMOUTH @ TRESTLE	690	
003	18-Jun-97	SLR RIVERMOUTH @ TRESTLE	70	
003	26-Jun-97	SLR RIVERMOUTH @ TRESTLE	320	
003	30-Jun-97	SLR RIVERMOUTH @ TRESTLE	200	
003	8-Jul-97	SLR RIVERMOUTH @ TRESTLE	70	
003	14-Jul-97	SLR RIVERMOUTH @ TRESTLE	123	
003	21-Jul-97	SLR RIVERMOUTH @ TRESTLE	1000	
003	28-Jul-97	SLR RIVERMOUTH @ TRESTLE	360	
003	5-Aug-97	SLR RIVERMOUTH @ TRESTLE	90	
003	12-Aug-97	SLR RIVERMOUTH @ TRESTLE	410	
003	20-Aug-97	SLR RIVERMOUTH @ TRESTLE	7580	
003	2-Sep-97	SLR RIVERMOUTH @ TRESTLE	70	
003	10-Sep-97	SLR RIVERMOUTH @ TRESTLE	1220	
003	15-Sep-97	SLR RIVERMOUTH @ TRESTLE	20	
003	24-Sep-97	SLR RIVERMOUTH @ TRESTLE	450	
003	29-Sep-97	SLR RIVERMOUTH @ TRESTLE	580	
003	6-Oct-97	SLR RIVERMOUTH @ TRESTLE	30	
003	14-Oct-97	SLR RIVERMOUTH @ TRESTLE	800	
003	20-Oct-97	SLR RIVERMOUTH @ TRESTLE	480	
003	27-Oct-97	SLR RIVERMOUTH @ TRESTLE	350	
003	3-Nov-97	SLR RIVERMOUTH @ TRESTLE	910	
003	12-Nov-97	SLR RIVERMOUTH @ TRESTLE	400	
003	17-Nov-97	SLR RIVERMOUTH @ TRESTLE	2260	
003	24-Nov-97	SLR RIVERMOUTH @ TRESTLE	110	
003	1-Dec-97	SLR RIVERMOUTH @ TRESTLE	1030	
003	8-Dec-97	SLR RIVERMOUTH @ TRESTLE	1770	
003	15-Dec-97	SLR RIVERMOUTH @ TRESTLE	390	
003	22-Dec-97	SLR RIVERMOUTH @ TRESTLE	60	
003	29-Dec-97	SLR RIVERMOUTH @ TRESTLE	280	
003	5-Jan-98	SLR RIVERMOUTH @ TRESTLE	260	
003	12-Jan-98	SLR RIVERMOUTH @ TRESTLE	2140	
003	20-Jan-98	SLR RIVERMOUTH @ TRESTLE	180	
003	26-Jan-98	SLR RIVERMOUTH @ TRESTLE	290	
003	4-Feb-98	SLR RIVERMOUTH @ TRESTLE	180	
003	9-Feb-98	SLR RIVERMOUTH @ TRESTLE	290	
003	17-Feb-98	SLR RIVERMOUTH @ TRESTLE	80	
003	24-Feb-98	SLR RIVERMOUTH @ TRESTLE	50	
003	2-Mar-98	SLR RIVERMOUTH @ TRESTLE	30	
003	9-Mar-98	SLR RIVERMOUTH @ TRESTLE	100	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	16-Mar-98	SLR RIVERMOUTH @ TRESTLE	220	
003	24-Mar-98	SLR RIVERMOUTH @ TRESTLE	868	
003	1-Apr-98	SLR RIVERMOUTH @ TRESTLE	840	
003	7-Apr-98	SLR RIVERMOUTH @ TRESTLE	350	
003	13-Apr-98	SLR RIVERMOUTH @ TRESTLE	560	
003	20-Apr-98	SLR RIVERMOUTH @ TRESTLE	220	
003	28-Apr-98	SLR RIVERMOUTH @ TRESTLE	260	
003	4-May-98	SLR RIVERMOUTH @ TRESTLE	260	
003	12-May-98	SLR RIVERMOUTH @ TRESTLE	2490	
003	18-May-98	SLR RIVERMOUTH @ TRESTLE	370	
003	26-May-98	SLR RIVERMOUTH @ TRESTLE	240	
003	2-Jun-98	SLR RIVERMOUTH @ TRESTLE	1530	
003	10-Jun-98	SLR RIVERMOUTH @ TRESTLE	300	
003	16-Jun-98	SLR RIVERMOUTH @ TRESTLE	690	
003	24-Jun-98	SLR RIVERMOUTH @ TRESTLE	540	
003	1-Jul-98	SLR RIVERMOUTH @ TRESTLE	1100	
003	6-Jul-98	SLR RIVERMOUTH @ TRESTLE	130	
003	13-Jul-98	SLR RIVERMOUTH @ TRESTLE	4010	
003	20-Jul-98	SLR RIVERMOUTH @ TRESTLE	70	
003	27-Jul-98	SLR RIVERMOUTH @ TRESTLE	1270	
003	3-Aug-98	SLR RIVERMOUTH @ TRESTLE	26000	
003	5-Aug-98	SLR RIVERMOUTH @ TRESTLE	1020	
003	10-Aug-98	SLR RIVERMOUTH @ TRESTLE	8490	
003	12-Aug-98	SLR RIVERMOUTH @ TRESTLE	11800	
003	18-Aug-98	SLR RIVERMOUTH @ TRESTLE	560	
003	19-Aug-98	SLR RIVERMOUTH @ TRESTLE	1240	1530
003	25-Aug-98	SLR RIVERMOUTH @ TRESTLE	1030	
003	31-Aug-98	SLR RIVERMOUTH @ TRESTLE	200	
003	8-Sep-98	SLR RIVERMOUTH @ TRESTLE	2001	
003	15-Sep-98	SLR RIVERMOUTH @ TRESTLE	480	
003	23-Sep-98	SLR RIVERMOUTH @ TRESTLE	3670	
003	29-Sep-98	SLR RIVERMOUTH @ TRESTLE	50	
003	19-Oct-98	SLR RIVERMOUTH @ TRESTLE	370	
003	2-Mar-99	SLR RIVERMOUTH @ TRESTLE	110	
003	10-Mar-99	SLR RIVERMOUTH @ TRESTLE	400	
003	17-Mar-99	SLR RIVERMOUTH @ TRESTLE	330	
003	24-Mar-99	SLR RIVERMOUTH @ TRESTLE	1720	
003	29-Mar-99	SLR RIVERMOUTH @ TRESTLE	1070	
003	6-Apr-99	SLR RIVERMOUTH @ TRESTLE	2160	
003	14-Apr-99	SLR RIVERMOUTH @ TRESTLE	60	
003	20-Apr-99	SLR RIVERMOUTH @ TRESTLE	236	
003	27-Apr-99	SLR RIVERMOUTH @ TRESTLE	1192	
003	4-May-99	SLR RIVERMOUTH @ TRESTLE	140	
003	13-May-99	SLR RIVERMOUTH @ TRESTLE	940	
003	17-May-99	SLR RIVERMOUTH @ TRESTLE	116	
003	26-May-99	SLR RIVERMOUTH @ TRESTLE	290	
003	2-Jun-99	SLR RIVERMOUTH @ TRESTLE	730	
003	7-Jun-99	SLR RIVERMOUTH @ TRESTLE	200	
003	22-Jun-99	SLR RIVERMOUTH @ TRESTLE	790	
003	30-Jun-99	SLR RIVERMOUTH @ TRESTLE	330	
003	7-Jul-99	SLR RIVERMOUTH @ TRESTLE	780	
003	13-Jul-99	SLR RIVERMOUTH @ TRESTLE	2590	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	16-Jul-99	SLR RIVERMOUTH @ TRESTLE	940	
003	20-Jul-99	SLR RIVERMOUTH @ TRESTLE	288	
003	27-Jul-99	SLR RIVERMOUTH @ TRESTLE	280	
003	3-Aug-99	SLR RIVERMOUTH @ TRESTLE	1390	
003	10-Aug-99	SLR RIVERMOUTH @ TRESTLE	2000	
003	17-Aug-99	SLR RIVERMOUTH @ TRESTLE	12000	
003	15-Sep-99	SLR RIVERMOUTH @ TRESTLE	770	
003	21-Sep-99	SLR RIVERMOUTH @ TRESTLE	2560	
003	29-Sep-99	SLR RIVERMOUTH @ TRESTLE	270	
003	7-Oct-99	SLR RIVERMOUTH @ TRESTLE	8730	
003	13-Oct-99	SLR RIVERMOUTH @ TRESTLE	1250	
003	20-Oct-99	SLR RIVERMOUTH @ TRESTLE	1050	
003	28-Oct-99	SLR RIVERMOUTH @ TRESTLE	5990	
003	1-Nov-99	SLR RIVERMOUTH @ TRESTLE	460	
003	9-Nov-99	SLR RIVERMOUTH @ TRESTLE	3400	
003	16-Nov-99	SLR RIVERMOUTH @ TRESTLE	2520	
003	29-Nov-99	SLR RIVERMOUTH @ TRESTLE	1110	
003	6-Dec-99	SLR RIVERMOUTH @ TRESTLE	110	
003	15-Dec-99	SLR RIVERMOUTH @ TRESTLE	390	
003	22-Dec-99	SLR RIVERMOUTH @ TRESTLE	70	
003	29-Dec-99	SLR RIVERMOUTH @ TRESTLE	100	
003	4-Jan-00	SLR RIVERMOUTH @ TRESTLE	20	
003	11-Jan-00	SLR RIVERMOUTH @ TRESTLE	320	
003	20-Jan-00	SLR RIVERMOUTH @ TRESTLE	780	
003	26-Jan-00	SLR RIVERMOUTH @ TRESTLE	340	
003	1-Feb-00	SLR RIVERMOUTH @ TRESTLE	580	
003	9-Feb-00	SLR RIVERMOUTH @ TRESTLE	420	
003	16-Feb-00	SLR RIVERMOUTH @ TRESTLE	660	
003	24-Feb-00	SLR RIVERMOUTH @ TRESTLE	120	
003	1-Mar-00	SLR RIVERMOUTH @ TRESTLE	160	
003	8-Mar-00	SLR RIVERMOUTH @ TRESTLE	2000	
003	15-Mar-00	SLR RIVERMOUTH @ TRESTLE	580	
003	22-Mar-00	SLR RIVERMOUTH @ TRESTLE	80	
003	29-Mar-00	SLR RIVERMOUTH @ TRESTLE	100	
003	5-Apr-00	SLR RIVERMOUTH @ TRESTLE	280	
003	12-Apr-00	SLR RIVERMOUTH @ TRESTLE	130	
003	13-Apr-00	SLR RIVERMOUTH @ TRESTLE	324	3680
003	19-Apr-00	SLR RIVERMOUTH @ TRESTLE	170	
003	26-Apr-00	SLR RIVERMOUTH @ TRESTLE	80	
003	3-May-00	SLR RIVERMOUTH @ TRESTLE	120	
003	11-May-00	SLR RIVERMOUTH @ TRESTLE	150	
003	17-May-00	SLR RIVERMOUTH @ TRESTLE	450	
003	24-May-00	SLR RIVERMOUTH @ TRESTLE	210	
003	1-Jun-00	SLR RIVERMOUTH @ TRESTLE	310	
003	8-Jun-00	SLR RIVERMOUTH @ TRESTLE	3350	
003	14-Jun-00	SLR RIVERMOUTH @ TRESTLE	740	
003	22-Jun-00	SLR RIVERMOUTH @ TRESTLE	320	
003	28-Jun-00	SLR RIVERMOUTH @ TRESTLE	830	
003	6-Jul-00	SLR RIVERMOUTH @ TRESTLE	120	
003	13-Jul-00	SLR RIVERMOUTH @ TRESTLE	60	
003	19-Jul-00	SLR RIVERMOUTH @ TRESTLE	120	
003	27-Jul-00	SLR RIVERMOUTH @ TRESTLE	110	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	2-Aug-00	SLR RIVERMOUTH @ TRESTLE	440	
003	9-Aug-00	SLR RIVERMOUTH @ TRESTLE	120	
003	17-Aug-00	SLR RIVERMOUTH @ TRESTLE	360	
003	24-Aug-00	SLR RIVERMOUTH @ TRESTLE	250	
003	30-Aug-00	SLR RIVERMOUTH @ TRESTLE	200	
003	7-Sep-00	SLR RIVERMOUTH @ TRESTLE	3336	
003	12-Sep-00	SLR RIVERMOUTH @ TRESTLE	2480	
003	19-Sep-00	SLR RIVERMOUTH @ TRESTLE	2928	
003	28-Sep-00	SLR RIVERMOUTH @ TRESTLE	50	
003	3-Oct-00	SLR RIVERMOUTH @ TRESTLE	1252	
003	12-Oct-00	SLR RIVERMOUTH @ TRESTLE	60	
003	17-Oct-00	SLR RIVERMOUTH @ TRESTLE	52	
003	24-Oct-00	SLR RIVERMOUTH @ TRESTLE	52	
003	24-Oct-00	SLR RIVERMOUTH @ TRESTLE	640	
003	1-Nov-00	SLR RIVERMOUTH @ TRESTLE	170	
003	6-Nov-00	SLR RIVERMOUTH @ TRESTLE	100	
003	14-Nov-00	SLR RIVERMOUTH @ TRESTLE	2	
003	20-Nov-00	SLR RIVERMOUTH @ TRESTLE	5	
003	29-Nov-00	SLR RIVERMOUTH @ TRESTLE	610	
003	6-Dec-00	SLR RIVERMOUTH @ TRESTLE	72	
003	11-Dec-00	SLR RIVERMOUTH @ TRESTLE	148	
003	20-Dec-00	SLR RIVERMOUTH @ TRESTLE	28	
003	26-Dec-00	SLR RIVERMOUTH @ TRESTLE	4	
003	4-Jan-01	SLR RIVERMOUTH @ TRESTLE	12	
003	9-Jan-01	SLR RIVERMOUTH @ TRESTLE	220	
003	16-Jan-01	SLR RIVERMOUTH @ TRESTLE	44	
003	22-Jan-01	SLR RIVERMOUTH @ TRESTLE	20	
003	29-Jan-01	SLR RIVERMOUTH @ TRESTLE	100	
003	5-Feb-01	SLR RIVERMOUTH @ TRESTLE		1467
003	6-Feb-01	SLR RIVERMOUTH @ TRESTLE	2976	
003	14-Feb-01	SLR RIVERMOUTH @ TRESTLE	262	
003	21-Feb-01	SLR RIVERMOUTH @ TRESTLE	336	
003	26-Feb-01	SLR RIVERMOUTH @ TRESTLE	210	
003	7-Mar-01	SLR RIVERMOUTH @ TRESTLE	110	
003	12-Mar-01	SLR RIVERMOUTH @ TRESTLE		309
003	12-Mar-01	SLR RIVERMOUTH @ TRESTLE	50	
003	19-Mar-01	SLR RIVERMOUTH @ TRESTLE	100	
003	27-Mar-01	SLR RIVERMOUTH @ TRESTLE	590	
003	2-Apr-01	SLR RIVERMOUTH @ TRESTLE	400	
003	9-Apr-01	SLR RIVERMOUTH @ TRESTLE	550	
003	16-Apr-01	SLR RIVERMOUTH @ TRESTLE	5	
003	24-Apr-01	SLR RIVERMOUTH @ TRESTLE	210	
003	30-Apr-01	SLR RIVERMOUTH @ TRESTLE	20	
003	7-May-01	SLR RIVERMOUTH @ TRESTLE	190	
003	14-May-01	SLR RIVERMOUTH @ TRESTLE	80	
003	21-May-01	SLR RIVERMOUTH @ TRESTLE	2400	
003	29-May-01	SLR RIVERMOUTH @ TRESTLE	16	
003	6-Jun-01	SLR RIVERMOUTH @ TRESTLE	100	
003	11-Jun-01	SLR RIVERMOUTH @ TRESTLE	556	
003	18-Jun-01	SLR RIVERMOUTH @ TRESTLE	80	
003	25-Jun-01	SLR RIVERMOUTH @ TRESTLE	490	
003	2-Jul-01	SLR RIVERMOUTH @ TRESTLE	400	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	9-Jul-01	SLR RIVERMOUTH @ TRESTLE	5600	
003	16-Jul-01	SLR RIVERMOUTH @ TRESTLE	8040	
003	23-Jul-01	SLR RIVERMOUTH @ TRESTLE	90	
003	31-Jul-01	SLR RIVERMOUTH @ TRESTLE	60	
003	7-Aug-01	SLR RIVERMOUTH @ TRESTLE	170	
003	14-Aug-01	SLR RIVERMOUTH @ TRESTLE	3910	
003	20-Aug-01	SLR RIVERMOUTH @ TRESTLE	1870	
003	28-Aug-01	SLR RIVERMOUTH @ TRESTLE	380	
003	5-Sep-01	SLR RIVERMOUTH @ TRESTLE	1670	
003	7-Sep-01	SLR RIVERMOUTH @ TRESTLE	280	
003	10-Sep-01	SLR RIVERMOUTH @ TRESTLE	16632	
003	18-Sep-01	SLR RIVERMOUTH @ TRESTLE	1210	
003	24-Sep-01	SLR RIVERMOUTH @ TRESTLE	110	
003	1-Oct-01	SLR RIVERMOUTH @ TRESTLE	680	
003	10-Oct-01	SLR RIVERMOUTH @ TRESTLE	7420	
003	15-Oct-01	SLR RIVERMOUTH @ TRESTLE	1090	
003	22-Oct-01	SLR RIVERMOUTH @ TRESTLE	400	
003	29-Oct-01	SLR RIVERMOUTH @ TRESTLE	1200	
003	5-Nov-01	SLR RIVERMOUTH @ TRESTLE	2780	
003	15-Nov-01	SLR RIVERMOUTH @ TRESTLE	1500	
003	19-Nov-01	SLR RIVERMOUTH @ TRESTLE	1180	
003	26-Nov-01	SLR RIVERMOUTH @ TRESTLE	1230	
003	3-Dec-01	SLR RIVERMOUTH @ TRESTLE	20	
003	10-Dec-01	SLR RIVERMOUTH @ TRESTLE	510	
003	17-Dec-01	SLR RIVERMOUTH @ TRESTLE	2520	
003	26-Dec-01	SLR RIVERMOUTH @ TRESTLE	220	
003	3-Jan-02	SLR RIVERMOUTH @ TRESTLE	860	
003	7-Jan-02	SLR RIVERMOUTH @ TRESTLE	160	
003	24-Jan-02	SLR RIVERMOUTH @ TRESTLE	130	
003	28-Jan-02	SLR RIVERMOUTH @ TRESTLE	10	
003	4-Feb-02	SLR RIVERMOUTH @ TRESTLE	5	
003	11-Feb-02	SLR RIVERMOUTH @ TRESTLE	20	
003	19-Feb-02	SLR RIVERMOUTH @ TRESTLE	280	
003	25-Feb-02	SLR RIVERMOUTH @ TRESTLE	50	
003	26-Feb-02	SLR RIVERMOUTH @ TRESTLE	160	
003	5-Mar-02	SLR RIVERMOUTH @ TRESTLE	100	
003	11-Mar-02	SLR RIVERMOUTH @ TRESTLE	110	
003	18-Mar-02	SLR RIVERMOUTH @ TRESTLE	130	
003	25-Mar-02	SLR RIVERMOUTH @ TRESTLE	220	
003	3-Apr-02	SLR RIVERMOUTH @ TRESTLE	110	
003	8-Apr-02	SLR RIVERMOUTH @ TRESTLE	640	
003	15-Apr-02	SLR RIVERMOUTH @ TRESTLE	1150	
003	24-Apr-02	SLR RIVERMOUTH @ TRESTLE	50	
003	29-Apr-02	SLR RIVERMOUTH @ TRESTLE	200	
003	7-May-02	SLR RIVERMOUTH @ TRESTLE	4170	
003	13-May-02	SLR RIVERMOUTH @ TRESTLE	100	
003	20-May-02	SLR RIVERMOUTH @ TRESTLE	400	
003	28-May-02	SLR RIVERMOUTH @ TRESTLE	140	
003	3-Jun-02	SLR RIVERMOUTH @ TRESTLE	90	
003	11-Jun-02	SLR RIVERMOUTH @ TRESTLE	10	
003	18-Jun-02	SLR RIVERMOUTH @ TRESTLE	80	
003	26-Jun-02	SLR RIVERMOUTH @ TRESTLE	20	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	2-Jul-02	SLR RIVERMOUTH @ TRESTLE	230	
003	3-Jul-02	SLR RIVERMOUTH @ TRESTLE		24192
003	9-Jul-02	SLR RIVERMOUTH @ TRESTLE	60	
003	23-Jul-02	SLR RIVERMOUTH @ TRESTLE	10	
003	30-Jul-02	SLR RIVERMOUTH @ TRESTLE	630	
003	6-Aug-02	SLR RIVERMOUTH @ TRESTLE	60	
003	13-Aug-02	SLR RIVERMOUTH @ TRESTLE	60	
003	20-Aug-02	SLR RIVERMOUTH @ TRESTLE	5	
003	27-Aug-02	SLR RIVERMOUTH @ TRESTLE	130	
003	4-Sep-02	SLR RIVERMOUTH @ TRESTLE	170	
003	10-Sep-02	SLR RIVERMOUTH @ TRESTLE	100	
003	19-Sep-02	SLR RIVERMOUTH @ TRESTLE	80	
003	25-Sep-02	SLR RIVERMOUTH @ TRESTLE	248	
003	1-Oct-02	SLR RIVERMOUTH @ TRESTLE	190	
003	7-Oct-02	SLR RIVERMOUTH @ TRESTLE	1116	
003	15-Oct-02	SLR RIVERMOUTH @ TRESTLE	90	
003	23-Oct-02	SLR RIVERMOUTH @ TRESTLE	610	
003	30-Oct-02	SLR RIVERMOUTH @ TRESTLE	950	
003	4-Nov-02	SLR RIVERMOUTH @ TRESTLE	350	
003	12-Nov-02	SLR RIVERMOUTH @ TRESTLE	370	
003	18-Nov-02	SLR RIVERMOUTH @ TRESTLE	230	
003	25-Nov-02	SLR RIVERMOUTH @ TRESTLE	270	
003	3-Dec-02	SLR RIVERMOUTH @ TRESTLE	1200	
003	10-Dec-02	SLR RIVERMOUTH @ TRESTLE	820	
003	17-Dec-02	SLR RIVERMOUTH @ TRESTLE	630	
003	23-Dec-02	SLR RIVERMOUTH @ TRESTLE	30	
003	30-Dec-02	SLR RIVERMOUTH @ TRESTLE	380	
003	7-Jan-03	SLR RIVERMOUTH @ TRESTLE	190	
003	13-Jan-03	SLR RIVERMOUTH @ TRESTLE	300	
003	21-Jan-03	SLR RIVERMOUTH @ TRESTLE	1200	
003	26-Jan-03	SLR RIVERMOUTH @ TRESTLE	50	
003	28-Jan-03	SLR RIVERMOUTH @ TRESTLE	180	
003	4-Feb-03	SLR RIVERMOUTH @ TRESTLE	220	
003	10-Feb-03	SLR RIVERMOUTH @ TRESTLE	20	
003	18-Feb-03	SLR RIVERMOUTH @ TRESTLE	140	
003	27-Feb-03	SLR RIVERMOUTH @ TRESTLE	720	
003	5-Mar-03	SLR RIVERMOUTH @ TRESTLE	310	
003	13-Mar-03	SLR RIVERMOUTH @ TRESTLE	30	
003	17-Mar-03	SLR RIVERMOUTH @ TRESTLE	1190	
003	25-Mar-03	SLR RIVERMOUTH @ TRESTLE	50	
003	1-Apr-03	SLR RIVERMOUTH @ TRESTLE	550	
003	8-Apr-03	SLR RIVERMOUTH @ TRESTLE	80	
003	15-Apr-03	SLR RIVERMOUTH @ TRESTLE	480	
003	23-Apr-03	SLR RIVERMOUTH @ TRESTLE	100	
003	28-Apr-03	SLR RIVERMOUTH @ TRESTLE	530	
003	5-May-03	SLR RIVERMOUTH @ TRESTLE	170	
003	13-May-03	SLR RIVERMOUTH @ TRESTLE	170	
003	20-May-03	SLR RIVERMOUTH @ TRESTLE	40	
003	27-May-03	SLR RIVERMOUTH @ TRESTLE	700	
003	3-Jun-03	SLR RIVERMOUTH @ TRESTLE	280	
003	11-Jun-03	SLR RIVERMOUTH @ TRESTLE	240	
003	18-Jun-03	SLR RIVERMOUTH @ TRESTLE	310	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
003	23-Jun-03	SLR RIVERMOUTH @ TRESTLE	272	
003	1-Jul-03	SLR RIVERMOUTH @ TRESTLE	180	
003	7-Jul-03	SLR RIVERMOUTH @ TRESTLE	140	
003	14-Jul-03	SLR RIVERMOUTH @ TRESTLE	180	
003	21-Jul-03	SLR RIVERMOUTH @ TRESTLE	126	
003	29-Jul-03	SLR RIVERMOUTH @ TRESTLE	400	
003	4-Aug-03	SLR RIVERMOUTH @ TRESTLE	56	
003	11-Aug-03	SLR RIVERMOUTH @ TRESTLE	988	
003	19-Aug-03	SLR RIVERMOUTH @ TRESTLE	1324	
003	26-Aug-03	SLR RIVERMOUTH @ TRESTLE	1220	
003	2-Sep-03	SLR RIVERMOUTH @ TRESTLE	800	
003	8-Sep-03	SLR RIVERMOUTH @ TRESTLE	400	
003	8-Sep-03	SLR RIVERMOUTH @ TRESTLE	1200	
003	15-Sep-03	SLR RIVERMOUTH @ TRESTLE	1010	
003	23-Sep-03	SLR RIVERMOUTH @ TRESTLE	710	
003	29-Sep-03	SLR RIVERMOUTH @ TRESTLE	416	
003	6-Oct-03	SLR RIVERMOUTH @ TRESTLE	580	
003	14-Oct-03	SLR RIVERMOUTH @ TRESTLE	10	
003	20-Oct-03	SLR RIVERMOUTH @ TRESTLE	840	
003	27-Oct-03	SLR RIVERMOUTH @ TRESTLE	3100	
003	4-Nov-03	SLR RIVERMOUTH @ TRESTLE	640	
003	12-Nov-03	SLR RIVERMOUTH @ TRESTLE	290	
003	17-Nov-03	SLR RIVERMOUTH @ TRESTLE	380	
003	24-Nov-03	SLR RIVERMOUTH @ TRESTLE	490	
003	1-Dec-03	SLR RIVERMOUTH @ TRESTLE	5760	
003	9-Dec-03	SLR RIVERMOUTH @ TRESTLE	330	
003	15-Dec-03	SLR RIVERMOUTH @ TRESTLE	260	
003	22-Dec-03	SLR RIVERMOUTH @ TRESTLE	410	
003	31-Dec-03	SLR RIVERMOUTH @ TRESTLE	420	
003	5-Jan-04	SLR RIVERMOUTH @ TRESTLE	100	
003	12-Jan-04	SLR RIVERMOUTH @ TRESTLE	160	
003	20-Jan-04	SLR RIVERMOUTH @ TRESTLE	20	
003	2-Feb-04	SLR RIVERMOUTH @ TRESTLE	70	
003	9-Feb-04	SLR RIVERMOUTH @ TRESTLE	120	
003	17-Feb-04	SLR RIVERMOUTH @ TRESTLE	1180	
003	23-Feb-04	SLR RIVERMOUTH @ TRESTLE	50	
003	1-Mar-04	SLR RIVERMOUTH @ TRESTLE	440	
003	8-Mar-04	SLR RIVERMOUTH @ TRESTLE	10	
003	15-Mar-04	SLR RIVERMOUTH @ TRESTLE	170	
003	22-Mar-04	SLR RIVERMOUTH @ TRESTLE	80	
003	29-Mar-04	SLR RIVERMOUTH @ TRESTLE	80	
003	6-Apr-04	SLR RIVERMOUTH @ TRESTLE	50	
003	12-Apr-04	SLR RIVERMOUTH @ TRESTLE	140	
003	19-Apr-04	SLR RIVERMOUTH @ TRESTLE	200	
003	26-Apr-04	SLR RIVERMOUTH @ TRESTLE	70	
003	3-May-04	SLR RIVERMOUTH @ TRESTLE	80	
003	10-May-04	SLR RIVERMOUTH @ TRESTLE	30	
003	17-May-04	SLR RIVERMOUTH @ TRESTLE	290	
003	26-May-04	SLR RIVERMOUTH @ TRESTLE	240	
006	8-Nov-88	SLR @ BROADWY/LAUREL ST BRIDGE	800	
006	30-Nov-88	SLR @ BROADWY/LAUREL ST BRIDGE	1000	
006	7-Dec-88	SLR @ BROADWY/LAUREL ST BRIDGE	2660	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	31-Jan-89	SLR @ BROADWY/LAUREL ST BRIDGE	1840	
006	26-Jun-91	SLR @ BROADWY/LAUREL ST BRIDGE	240	
006	5-Feb-92	SLR @ BROADWY/LAUREL ST BRIDGE	32	
006	5-May-93	SLR @ BROADWY/LAUREL ST BRIDGE	256	
006	11-Apr-95	SLR @ BROADWY/LAUREL ST BRIDGE	412	
006	21-Aug-95	SLR @ BROADWY/LAUREL ST BRIDGE	552	
006	23-Aug-95	SLR @ BROADWY/LAUREL ST BRIDGE	328	
006	17-Oct-95	SLR @ BROADWY/LAUREL ST BRIDGE	184	
006	19-Oct-95	SLR @ BROADWY/LAUREL ST BRIDGE	2300	
006	24-Oct-95	SLR @ BROADWY/LAUREL ST BRIDGE	1012	
006	30-Oct-95	SLR @ BROADWY/LAUREL ST BRIDGE	212	
006	7-Nov-95	SLR @ BROADWY/LAUREL ST BRIDGE	776	
006	13-Nov-95	SLR @ BROADWY/LAUREL ST BRIDGE	356	
006	14-Nov-95	SLR @ BROADWY/LAUREL ST BRIDGE	652	
006	21-Nov-95	SLR @ BROADWY/LAUREL ST BRIDGE	1280	
006	4-Dec-95	SLR @ BROADWY/LAUREL ST BRIDGE	8470	
006	5-Dec-95	SLR @ BROADWY/LAUREL ST BRIDGE	860	
006	18-Dec-95	SLR @ BROADWY/LAUREL ST BRIDGE	660	
006	21-Dec-95	SLR @ BROADWY/LAUREL ST BRIDGE	11700	
006	26-Dec-95	SLR @ BROADWY/LAUREL ST BRIDGE	260	
006	2-Jan-96	SLR @ BROADWY/LAUREL ST BRIDGE	16000	
006	3-Jan-96	SLR @ BROADWY/LAUREL ST BRIDGE	12380	
006	11-Jan-96	SLR @ BROADWY/LAUREL ST BRIDGE	18000	
006	17-Jan-96	SLR @ BROADWY/LAUREL ST BRIDGE	800	
006	18-Jan-96	SLR @ BROADWY/LAUREL ST BRIDGE	2300	
006	22-Jan-96	SLR @ BROADWY/LAUREL ST BRIDGE	820	
006	30-Jan-96	SLR @ BROADWY/LAUREL ST BRIDGE	250	
006	6-Feb-96	SLR @ BROADWY/LAUREL ST BRIDGE	40	
006	14-Feb-96	SLR @ BROADWY/LAUREL ST BRIDGE	588	
006	15-Feb-96	SLR @ BROADWY/LAUREL ST BRIDGE	2720	
006	20-Feb-96	SLR @ BROADWY/LAUREL ST BRIDGE	800	
006	26-Feb-96	SLR @ BROADWY/LAUREL ST BRIDGE	330	
006	29-Feb-96	SLR @ BROADWY/LAUREL ST BRIDGE	1280	
006	6-Mar-96	SLR @ BROADWY/LAUREL ST BRIDGE	260	
006	14-Mar-96	SLR @ BROADWY/LAUREL ST BRIDGE	190	
006	21-Mar-96	SLR @ BROADWY/LAUREL ST BRIDGE	1736	
006	25-Mar-96	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	26-Mar-96	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	3-Apr-96	SLR @ BROADWY/LAUREL ST BRIDGE	440	
006	8-Apr-96	SLR @ BROADWY/LAUREL ST BRIDGE	440	
006	15-Apr-96	SLR @ BROADWY/LAUREL ST BRIDGE	264	
006	22-Apr-96	SLR @ BROADWY/LAUREL ST BRIDGE	532	
006	25-Apr-96	SLR @ BROADWY/LAUREL ST BRIDGE	120	
006	1-May-96	SLR @ BROADWY/LAUREL ST BRIDGE	552	
006	6-May-96	SLR @ BROADWY/LAUREL ST BRIDGE	292	
006	13-May-96	SLR @ BROADWY/LAUREL ST BRIDGE	396	
006	20-May-96	SLR @ BROADWY/LAUREL ST BRIDGE	530	
006	29-May-96	SLR @ BROADWY/LAUREL ST BRIDGE	500	
006	5-Jun-96	SLR @ BROADWY/LAUREL ST BRIDGE	450	
006	10-Jun-96	SLR @ BROADWY/LAUREL ST BRIDGE	290	
006	11-Jun-96	SLR @ BROADWY/LAUREL ST BRIDGE	184	
006	18-Jun-96	SLR @ BROADWY/LAUREL ST BRIDGE	320	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	20-Jun-96	SLR @ BROADWY/LAUREL ST BRIDGE	248	
006	26-Jun-96	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	9-Jul-96	SLR @ BROADWY/LAUREL ST BRIDGE	176	
006	18-Jul-96	SLR @ BROADWY/LAUREL ST BRIDGE	72	
006	21-Aug-96	SLR @ BROADWY/LAUREL ST BRIDGE	630	
006	3-Sep-96	SLR @ BROADWY/LAUREL ST BRIDGE	990	
006	9-Sep-96	SLR @ BROADWY/LAUREL ST BRIDGE	1000	
006	16-Sep-96	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	23-Sep-96	SLR @ BROADWY/LAUREL ST BRIDGE	2340	3160
006	1-Oct-96	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	7-Oct-96	SLR @ BROADWY/LAUREL ST BRIDGE	60	280
006	15-Oct-96	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	23-Oct-96	SLR @ BROADWY/LAUREL ST BRIDGE	170	800
006	29-Oct-96	SLR @ BROADWY/LAUREL ST BRIDGE	16800	
006	7-Nov-96	SLR @ BROADWY/LAUREL ST BRIDGE	90	
006	12-Nov-96	SLR @ BROADWY/LAUREL ST BRIDGE	1250	
006	26-Nov-96	SLR @ BROADWY/LAUREL ST BRIDGE	1640	
006	3-Dec-96	SLR @ BROADWY/LAUREL ST BRIDGE	520	
006	18-Dec-96	SLR @ BROADWY/LAUREL ST BRIDGE	220	2400
006	2-Jan-97	SLR @ BROADWY/LAUREL ST BRIDGE	1400	8400
006	6-Jan-97	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	15-Jan-97	SLR @ BROADWY/LAUREL ST BRIDGE	1280	
006	27-Jan-97	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	3-Feb-97	SLR @ BROADWY/LAUREL ST BRIDGE	130	2400
006	13-Feb-97	SLR @ BROADWY/LAUREL ST BRIDGE	460	
006	19-Feb-97	SLR @ BROADWY/LAUREL ST BRIDGE	1030	
006	24-Feb-97	SLR @ BROADWY/LAUREL ST BRIDGE	4190	
006	3-Mar-97	SLR @ BROADWY/LAUREL ST BRIDGE	350	
006	10-Mar-97	SLR @ BROADWY/LAUREL ST BRIDGE	3800	
006	13-Mar-97	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	19-Mar-97	SLR @ BROADWY/LAUREL ST BRIDGE	920	
006	27-Mar-97	SLR @ BROADWY/LAUREL ST BRIDGE	184	
006	31-Mar-97	SLR @ BROADWY/LAUREL ST BRIDGE	590	
006	10-Apr-97	SLR @ BROADWY/LAUREL ST BRIDGE	100	
006	14-Apr-97	SLR @ BROADWY/LAUREL ST BRIDGE	310	
006	21-Apr-97	SLR @ BROADWY/LAUREL ST BRIDGE	350	
006	30-Apr-97	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	6-May-97	SLR @ BROADWY/LAUREL ST BRIDGE	480	
006	12-May-97	SLR @ BROADWY/LAUREL ST BRIDGE	424	
006	21-May-97	SLR @ BROADWY/LAUREL ST BRIDGE	910	
006	2-Jun-97	SLR @ BROADWY/LAUREL ST BRIDGE	99	
006	10-Jun-97	SLR @ BROADWY/LAUREL ST BRIDGE	920	
006	18-Jun-97	SLR @ BROADWY/LAUREL ST BRIDGE	890	
006	26-Jun-97	SLR @ BROADWY/LAUREL ST BRIDGE	300	
006	30-Jun-97	SLR @ BROADWY/LAUREL ST BRIDGE	1000	
006	8-Jul-97	SLR @ BROADWY/LAUREL ST BRIDGE	270	
006	14-Jul-97	SLR @ BROADWY/LAUREL ST BRIDGE	470	
006	21-Jul-97	SLR @ BROADWY/LAUREL ST BRIDGE	290	
006	28-Jul-97	SLR @ BROADWY/LAUREL ST BRIDGE	250	
006	5-Aug-97	SLR @ BROADWY/LAUREL ST BRIDGE	40	
006	12-Aug-97	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	20-Aug-97	SLR @ BROADWY/LAUREL ST BRIDGE	8310	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	2-Sep-97	SLR @ BROADWY/LAUREL ST BRIDGE	70	
006	10-Sep-97	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	15-Sep-97	SLR @ BROADWY/LAUREL ST BRIDGE	130	
006	23-Sep-97	SLR @ BROADWY/LAUREL ST BRIDGE	550	
006	29-Sep-97	SLR @ BROADWY/LAUREL ST BRIDGE	90	
006	6-Oct-97	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	14-Oct-97	SLR @ BROADWY/LAUREL ST BRIDGE	900	
006	20-Oct-97	SLR @ BROADWY/LAUREL ST BRIDGE	580	
006	3-Nov-97	SLR @ BROADWY/LAUREL ST BRIDGE	790	
006	12-Nov-97	SLR @ BROADWY/LAUREL ST BRIDGE	500	
006	17-Nov-97	SLR @ BROADWY/LAUREL ST BRIDGE	1300	
006	24-Nov-97	SLR @ BROADWY/LAUREL ST BRIDGE	420	
006	1-Dec-97	SLR @ BROADWY/LAUREL ST BRIDGE	810	
006	8-Dec-97	SLR @ BROADWY/LAUREL ST BRIDGE	1130	
006	15-Dec-97	SLR @ BROADWY/LAUREL ST BRIDGE	580	
006	22-Dec-97	SLR @ BROADWY/LAUREL ST BRIDGE	480	
006	29-Dec-97	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	5-Jan-98	SLR @ BROADWY/LAUREL ST BRIDGE	360	
006	12-Jan-98	SLR @ BROADWY/LAUREL ST BRIDGE	920	
006	20-Jan-98	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	26-Jan-98	SLR @ BROADWY/LAUREL ST BRIDGE	180	
006	4-Feb-98	SLR @ BROADWY/LAUREL ST BRIDGE	480	
006	9-Feb-98	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	17-Feb-98	SLR @ BROADWY/LAUREL ST BRIDGE	2680	
006	24-Feb-98	SLR @ BROADWY/LAUREL ST BRIDGE	130	
006	2-Mar-98	SLR @ BROADWY/LAUREL ST BRIDGE	130	
006	8-Mar-98	SLR @ BROADWY/LAUREL ST BRIDGE	960	
006	9-Mar-98	SLR @ BROADWY/LAUREL ST BRIDGE	450	
006	16-Mar-98	SLR @ BROADWY/LAUREL ST BRIDGE	380	
006	28-Mar-98	SLR @ BROADWY/LAUREL ST BRIDGE	496	
006	1-Apr-98	SLR @ BROADWY/LAUREL ST BRIDGE	1420	
006	7-Apr-98	SLR @ BROADWY/LAUREL ST BRIDGE	80	
006	13-Apr-98	SLR @ BROADWY/LAUREL ST BRIDGE	1580	
006	20-Apr-98	SLR @ BROADWY/LAUREL ST BRIDGE	80	
006	28-Apr-98	SLR @ BROADWY/LAUREL ST BRIDGE	280	
006	4-May-98	SLR @ BROADWY/LAUREL ST BRIDGE	860	
006	12-May-98	SLR @ BROADWY/LAUREL ST BRIDGE	1320	
006	18-May-98	SLR @ BROADWY/LAUREL ST BRIDGE	370	
006	26-May-98	SLR @ BROADWY/LAUREL ST BRIDGE	280	
006	2-Jun-98	SLR @ BROADWY/LAUREL ST BRIDGE	570	
006	10-Jun-98	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	16-Jun-98	SLR @ BROADWY/LAUREL ST BRIDGE	390	
006	24-Jun-98	SLR @ BROADWY/LAUREL ST BRIDGE	480	
006	1-Jul-98	SLR @ BROADWY/LAUREL ST BRIDGE	380	
006	6-Jul-98	SLR @ BROADWY/LAUREL ST BRIDGE	136	
006	13-Jul-98	SLR @ BROADWY/LAUREL ST BRIDGE	400	
006	20-Jul-98	SLR @ BROADWY/LAUREL ST BRIDGE	110	
006	27-Jul-98	SLR @ BROADWY/LAUREL ST BRIDGE	400	
006	3-Aug-98	SLR @ BROADWY/LAUREL ST BRIDGE	280	
006	10-Aug-98	SLR @ BROADWY/LAUREL ST BRIDGE	80	
006	18-Aug-98	SLR @ BROADWY/LAUREL ST BRIDGE	190	
006	25-Aug-98	SLR @ BROADWY/LAUREL ST BRIDGE	130	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	31-Aug-98	SLR @ BROADWY/LAUREL ST BRIDGE	100	
006	8-Sep-98	SLR @ BROADWY/LAUREL ST BRIDGE	370	
006	15-Sep-98	SLR @ BROADWY/LAUREL ST BRIDGE	530	
006	23-Sep-98	SLR @ BROADWY/LAUREL ST BRIDGE	1310	
006	28-Sep-98	SLR @ BROADWY/LAUREL ST BRIDGE	20	
006	19-Oct-98	SLR @ BROADWY/LAUREL ST BRIDGE	500	
006	2-Mar-99	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	10-Mar-99	SLR @ BROADWY/LAUREL ST BRIDGE	460	
006	17-Mar-99	SLR @ BROADWY/LAUREL ST BRIDGE	220	
006	24-Mar-99	SLR @ BROADWY/LAUREL ST BRIDGE	1420	
006	29-Mar-99	SLR @ BROADWY/LAUREL ST BRIDGE	220	
006	6-Apr-99	SLR @ BROADWY/LAUREL ST BRIDGE	4900	
006	14-Apr-99	SLR @ BROADWY/LAUREL ST BRIDGE	130	
006	20-Apr-99	SLR @ BROADWY/LAUREL ST BRIDGE	144	
006	27-Apr-99	SLR @ BROADWY/LAUREL ST BRIDGE	104	
006	4-May-99	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	13-May-99	SLR @ BROADWY/LAUREL ST BRIDGE	290	
006	26-May-99	SLR @ BROADWY/LAUREL ST BRIDGE	1330	
006	7-Jun-99	SLR @ BROADWY/LAUREL ST BRIDGE	610	
006	16-Jun-99	SLR @ BROADWY/LAUREL ST BRIDGE	780	
006	22-Jun-99	SLR @ BROADWY/LAUREL ST BRIDGE	1400	
006	30-Jun-99	SLR @ BROADWY/LAUREL ST BRIDGE	400	
006	8-Jul-99	SLR @ BROADWY/LAUREL ST BRIDGE	500	
006	13-Jul-99	SLR @ BROADWY/LAUREL ST BRIDGE	800	
006	20-Jul-99	SLR @ BROADWY/LAUREL ST BRIDGE	420	
006	27-Jul-99	SLR @ BROADWY/LAUREL ST BRIDGE	880	
006	3-Aug-99	SLR @ BROADWY/LAUREL ST BRIDGE	470	
006	10-Aug-99	SLR @ BROADWY/LAUREL ST BRIDGE	284	
006	17-Aug-99	SLR @ BROADWY/LAUREL ST BRIDGE	390	
006	15-Sep-99	SLR @ BROADWY/LAUREL ST BRIDGE	1120	
006	20-Sep-99	SLR @ BROADWY/LAUREL ST BRIDGE	2070	
006	29-Sep-99	SLR @ BROADWY/LAUREL ST BRIDGE	730	
006	7-Oct-99	SLR @ BROADWY/LAUREL ST BRIDGE	390	
006	28-Oct-99	SLR @ BROADWY/LAUREL ST BRIDGE	5330	
006	1-Nov-99	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	9-Nov-99	SLR @ BROADWY/LAUREL ST BRIDGE	2620	
006	16-Nov-99	SLR @ BROADWY/LAUREL ST BRIDGE	1030	
006	29-Nov-99	SLR @ BROADWY/LAUREL ST BRIDGE	1140	
006	6-Dec-99	SLR @ BROADWY/LAUREL ST BRIDGE	150	
006	15-Dec-99	SLR @ BROADWY/LAUREL ST BRIDGE	290	
006	22-Dec-99	SLR @ BROADWY/LAUREL ST BRIDGE	40	
006	29-Dec-99	SLR @ BROADWY/LAUREL ST BRIDGE	50	
006	4-Jan-00	SLR @ BROADWY/LAUREL ST BRIDGE	0.9	
006	11-Jan-00	SLR @ BROADWY/LAUREL ST BRIDGE	520	
006	20-Jan-00	SLR @ BROADWY/LAUREL ST BRIDGE	640	
006	26-Jan-00	SLR @ BROADWY/LAUREL ST BRIDGE	220	
006	1-Feb-00	SLR @ BROADWY/LAUREL ST BRIDGE	280	
006	9-Feb-00	SLR @ BROADWY/LAUREL ST BRIDGE	2520	
006	16-Feb-00	SLR @ BROADWY/LAUREL ST BRIDGE	820	
006	24-Feb-00	SLR @ BROADWY/LAUREL ST BRIDGE	60	
006	1-Mar-00	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	8-Mar-00	SLR @ BROADWY/LAUREL ST BRIDGE	1900	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	15-Mar-00	SLR @ BROADWY/LAUREL ST BRIDGE	80	
006	22-Mar-00	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	29-Mar-00	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	5-Apr-00	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	12-Apr-00	SLR @ BROADWY/LAUREL ST BRIDGE	250	
006	19-Apr-00	SLR @ BROADWY/LAUREL ST BRIDGE	180	
006	26-Apr-00	SLR @ BROADWY/LAUREL ST BRIDGE	390	
006	3-May-00	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	11-May-00	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	17-May-00	SLR @ BROADWY/LAUREL ST BRIDGE	250	
006	24-May-00	SLR @ BROADWY/LAUREL ST BRIDGE	1060	
006	1-Jun-00	SLR @ BROADWY/LAUREL ST BRIDGE	650	
006	8-Jun-00	SLR @ BROADWY/LAUREL ST BRIDGE	1250	
006	14-Jun-00	SLR @ BROADWY/LAUREL ST BRIDGE	340	
006	22-Jun-00	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	28-Jun-00	SLR @ BROADWY/LAUREL ST BRIDGE	270	
006	6-Jul-00	SLR @ BROADWY/LAUREL ST BRIDGE	50	
006	13-Jul-00	SLR @ BROADWY/LAUREL ST BRIDGE	220	
006	27-Jul-00	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	2-Aug-00	SLR @ BROADWY/LAUREL ST BRIDGE	370	
006	8-Aug-00	SLR @ BROADWY/LAUREL ST BRIDGE	320	
006	17-Aug-00	SLR @ BROADWY/LAUREL ST BRIDGE	408	
006	30-Aug-00	SLR @ BROADWY/LAUREL ST BRIDGE	420	
006	7-Sep-00	SLR @ BROADWY/LAUREL ST BRIDGE	312	
006	12-Sep-00	SLR @ BROADWY/LAUREL ST BRIDGE	280	
006	28-Sep-00	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	12-Oct-00	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	17-Oct-00	SLR @ BROADWY/LAUREL ST BRIDGE	96	
006	24-Oct-00	SLR @ BROADWY/LAUREL ST BRIDGE	3300	
006	1-Nov-00	SLR @ BROADWY/LAUREL ST BRIDGE	400	
006	8-Nov-00	SLR @ BROADWY/LAUREL ST BRIDGE	570	
006	14-Nov-00	SLR @ BROADWY/LAUREL ST BRIDGE	2	
006	20-Nov-00	SLR @ BROADWY/LAUREL ST BRIDGE	180	
006	29-Nov-00	SLR @ BROADWY/LAUREL ST BRIDGE	1940	
006	6-Dec-00	SLR @ BROADWY/LAUREL ST BRIDGE	124	
006	11-Dec-00	SLR @ BROADWY/LAUREL ST BRIDGE	312	
006	20-Dec-00	SLR @ BROADWY/LAUREL ST BRIDGE	712	
006	26-Dec-00	SLR @ BROADWY/LAUREL ST BRIDGE	4	
006	9-Jan-01	SLR @ BROADWY/LAUREL ST BRIDGE	410	
006	16-Jan-01	SLR @ BROADWY/LAUREL ST BRIDGE	116	
006	17-Jan-01	SLR @ BROADWY/LAUREL ST BRIDGE	100	
006	29-Jan-01	SLR @ BROADWY/LAUREL ST BRIDGE	430	
006	6-Feb-01	SLR @ BROADWY/LAUREL ST BRIDGE	344	
006	14-Feb-01	SLR @ BROADWY/LAUREL ST BRIDGE	1145	
006	21-Feb-01	SLR @ BROADWY/LAUREL ST BRIDGE	2928	
006	26-Feb-01	SLR @ BROADWY/LAUREL ST BRIDGE	400	
006	7-Mar-01	SLR @ BROADWY/LAUREL ST BRIDGE	130	
006	12-Mar-01	SLR @ BROADWY/LAUREL ST BRIDGE	100	
006	19-Mar-01	SLR @ BROADWY/LAUREL ST BRIDGE	290	
006	26-Mar-01	SLR @ BROADWY/LAUREL ST BRIDGE	390	
006	2-Apr-01	SLR @ BROADWY/LAUREL ST BRIDGE	60	
006	9-Apr-01	SLR @ BROADWY/LAUREL ST BRIDGE	230	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	16-Apr-01	SLR @ BROADWY/LAUREL ST BRIDGE	30	
006	24-Apr-01	SLR @ BROADWY/LAUREL ST BRIDGE	90	
006	30-Apr-01	SLR @ BROADWY/LAUREL ST BRIDGE	120	
006	7-May-01	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	14-May-01	SLR @ BROADWY/LAUREL ST BRIDGE	320	
006	21-May-01	SLR @ BROADWY/LAUREL ST BRIDGE	310	
006	29-May-01	SLR @ BROADWY/LAUREL ST BRIDGE	20	
006	6-Jun-01	SLR @ BROADWY/LAUREL ST BRIDGE	780	
006	11-Jun-01	SLR @ BROADWY/LAUREL ST BRIDGE	320	
006	18-Jun-01	SLR @ BROADWY/LAUREL ST BRIDGE	260	
006	25-Jun-01	SLR @ BROADWY/LAUREL ST BRIDGE	810	
006	2-Jul-01	SLR @ BROADWY/LAUREL ST BRIDGE	3970	
006	9-Jul-01	SLR @ BROADWY/LAUREL ST BRIDGE	500	
006	16-Jul-01	SLR @ BROADWY/LAUREL ST BRIDGE	1060	
006	23-Jul-01	SLR @ BROADWY/LAUREL ST BRIDGE	570	
006	31-Jul-01	SLR @ BROADWY/LAUREL ST BRIDGE	580	
006	6-Aug-01	SLR @ BROADWY/LAUREL ST BRIDGE	1890	
006	14-Aug-01	SLR @ BROADWY/LAUREL ST BRIDGE	570	
006	20-Aug-01	SLR @ BROADWY/LAUREL ST BRIDGE	1400	
006	28-Aug-01	SLR @ BROADWY/LAUREL ST BRIDGE	310	
006	5-Sep-01	SLR @ BROADWY/LAUREL ST BRIDGE	380	
006	10-Sep-01	SLR @ BROADWY/LAUREL ST BRIDGE	576	
006	18-Sep-01	SLR @ BROADWY/LAUREL ST BRIDGE	530	
006	24-Sep-01	SLR @ BROADWY/LAUREL ST BRIDGE	290	
006	1-Oct-01	SLR @ BROADWY/LAUREL ST BRIDGE	450	
006	10-Oct-01	SLR @ BROADWY/LAUREL ST BRIDGE	760	
006	15-Oct-01	SLR @ BROADWY/LAUREL ST BRIDGE	620	
006	22-Oct-01	SLR @ BROADWY/LAUREL ST BRIDGE	850	
006	29-Oct-01	SLR @ BROADWY/LAUREL ST BRIDGE	1010	
006	5-Nov-01	SLR @ BROADWY/LAUREL ST BRIDGE	520	
006	15-Nov-01	SLR @ BROADWY/LAUREL ST BRIDGE	1760	
006	19-Nov-01	SLR @ BROADWY/LAUREL ST BRIDGE	1210	
006	26-Nov-01	SLR @ BROADWY/LAUREL ST BRIDGE	970	
006	3-Dec-01	SLR @ BROADWY/LAUREL ST BRIDGE	680	
006	10-Dec-01	SLR @ BROADWY/LAUREL ST BRIDGE	420	
006	17-Dec-01	SLR @ BROADWY/LAUREL ST BRIDGE	4150	
006	26-Dec-01	SLR @ BROADWY/LAUREL ST BRIDGE	310	
006	3-Jan-02	SLR @ BROADWY/LAUREL ST BRIDGE	620	
006	7-Jan-02	SLR @ BROADWY/LAUREL ST BRIDGE	130	
006	14-Jan-02	SLR @ BROADWY/LAUREL ST BRIDGE	60	
006	14-Jan-02	SLR @ BROADWY/LAUREL ST BRIDGE	100	
006	24-Jan-02	SLR @ BROADWY/LAUREL ST BRIDGE	100	
006	28-Jan-02	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	4-Feb-02	SLR @ BROADWY/LAUREL ST BRIDGE	10	
006	11-Feb-02	SLR @ BROADWY/LAUREL ST BRIDGE	50	
006	19-Feb-02	SLR @ BROADWY/LAUREL ST BRIDGE	400	
006	20-Feb-02	SLR @ BROADWY/LAUREL ST BRIDGE		959
006	25-Feb-02	SLR @ BROADWY/LAUREL ST BRIDGE	20	
006	5-Mar-02	SLR @ BROADWY/LAUREL ST BRIDGE	80	
006	11-Mar-02	SLR @ BROADWY/LAUREL ST BRIDGE	90	
006	18-Mar-02	SLR @ BROADWY/LAUREL ST BRIDGE	90	
006	25-Mar-02	SLR @ BROADWY/LAUREL ST BRIDGE	60	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	3-Apr-02	SLR @ BROADWY/LAUREL ST BRIDGE	60	
006	8-Apr-02	SLR @ BROADWY/LAUREL ST BRIDGE	230	
006	15-Apr-02	SLR @ BROADWY/LAUREL ST BRIDGE	1140	
006	29-Apr-02	SLR @ BROADWY/LAUREL ST BRIDGE	120	
006	7-May-02	SLR @ BROADWY/LAUREL ST BRIDGE	30	
006	13-May-02	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	20-May-02	SLR @ BROADWY/LAUREL ST BRIDGE	590	
006	28-May-02	SLR @ BROADWY/LAUREL ST BRIDGE	80	
006	3-Jun-02	SLR @ BROADWY/LAUREL ST BRIDGE	60	
006	18-Jun-02	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	26-Jun-02	SLR @ BROADWY/LAUREL ST BRIDGE	490	
006	2-Jul-02	SLR @ BROADWY/LAUREL ST BRIDGE	40	
006	9-Jul-02	SLR @ BROADWY/LAUREL ST BRIDGE	350	
006	16-Jul-02	SLR @ BROADWY/LAUREL ST BRIDGE	50	
006	23-Jul-02	SLR @ BROADWY/LAUREL ST BRIDGE	180	
006	30-Jul-02	SLR @ BROADWY/LAUREL ST BRIDGE	120	
006	6-Aug-02	SLR @ BROADWY/LAUREL ST BRIDGE	240	
006	13-Aug-02	SLR @ BROADWY/LAUREL ST BRIDGE	660	
006	20-Aug-02	SLR @ BROADWY/LAUREL ST BRIDGE	120	
006	27-Aug-02	SLR @ BROADWY/LAUREL ST BRIDGE	210	
006	4-Sep-02	SLR @ BROADWY/LAUREL ST BRIDGE	470	
006	10-Sep-02	SLR @ BROADWY/LAUREL ST BRIDGE	1350	
006	19-Sep-02	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	23-Sep-02	SLR @ BROADWY/LAUREL ST BRIDGE	169	
006	2-Oct-02	SLR @ BROADWY/LAUREL ST BRIDGE	490	
006	7-Oct-02	SLR @ BROADWY/LAUREL ST BRIDGE	124	
006	15-Oct-02	SLR @ BROADWY/LAUREL ST BRIDGE	110	
006	23-Oct-02	SLR @ BROADWY/LAUREL ST BRIDGE	1860	
006	30-Oct-02	SLR @ BROADWY/LAUREL ST BRIDGE	570	
006	4-Nov-02	SLR @ BROADWY/LAUREL ST BRIDGE	150	
006	12-Nov-02	SLR @ BROADWY/LAUREL ST BRIDGE	250	
006	18-Nov-02	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	25-Nov-02	SLR @ BROADWY/LAUREL ST BRIDGE	510	
006	3-Dec-02	SLR @ BROADWY/LAUREL ST BRIDGE	920	
006	10-Dec-02	SLR @ BROADWY/LAUREL ST BRIDGE	470	
006	17-Dec-02	SLR @ BROADWY/LAUREL ST BRIDGE	470	
006	23-Dec-02	SLR @ BROADWY/LAUREL ST BRIDGE	240	
006	30-Dec-02	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	7-Jan-03	SLR @ BROADWY/LAUREL ST BRIDGE	130	
006	13-Jan-03	SLR @ BROADWY/LAUREL ST BRIDGE	100	
006	21-Jan-03	SLR @ BROADWY/LAUREL ST BRIDGE	76	
006	26-Jan-03	SLR @ BROADWY/LAUREL ST BRIDGE	150	
006	28-Jan-03	SLR @ BROADWY/LAUREL ST BRIDGE	190	
006	4-Feb-03	SLR @ BROADWY/LAUREL ST BRIDGE	70	
006	10-Feb-03	SLR @ BROADWY/LAUREL ST BRIDGE	20	
006	18-Feb-03	SLR @ BROADWY/LAUREL ST BRIDGE	90	
006	27-Feb-03	SLR @ BROADWY/LAUREL ST BRIDGE	640	
006	5-Mar-03	SLR @ BROADWY/LAUREL ST BRIDGE	280	
006	13-Mar-03	SLR @ BROADWY/LAUREL ST BRIDGE	20	
006	17-Mar-03	SLR @ BROADWY/LAUREL ST BRIDGE	320	
006	25-Mar-03	SLR @ BROADWY/LAUREL ST BRIDGE	20	
006	25-Mar-03	SLR @ BROADWY/LAUREL ST BRIDGE	120	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	1-Apr-03	SLR @ BROADWY/LAUREL ST BRIDGE	330	
006	8-Apr-03	SLR @ BROADWY/LAUREL ST BRIDGE	270	
006	15-Apr-03	SLR @ BROADWY/LAUREL ST BRIDGE	510	
006	23-Apr-03	SLR @ BROADWY/LAUREL ST BRIDGE	130	
006	28-Apr-03	SLR @ BROADWY/LAUREL ST BRIDGE	800	
006	5-May-03	SLR @ BROADWY/LAUREL ST BRIDGE	90	
006	13-May-03	SLR @ BROADWY/LAUREL ST BRIDGE	40	
006	20-May-03	SLR @ BROADWY/LAUREL ST BRIDGE	50	
006	27-May-03	SLR @ BROADWY/LAUREL ST BRIDGE	220	
006	3-Jun-03	SLR @ BROADWY/LAUREL ST BRIDGE	500	
006	11-Jun-03	SLR @ BROADWY/LAUREL ST BRIDGE	340	
006	18-Jun-03	SLR @ BROADWY/LAUREL ST BRIDGE	370	
006	23-Jun-03	SLR @ BROADWY/LAUREL ST BRIDGE	264	
006	1-Jul-03	SLR @ BROADWY/LAUREL ST BRIDGE	30	
006	7-Jul-03	SLR @ BROADWY/LAUREL ST BRIDGE	50	
006	14-Jul-03	SLR @ BROADWY/LAUREL ST BRIDGE	340	
006	21-Jul-03	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	29-Jul-03	SLR @ BROADWY/LAUREL ST BRIDGE	244	
006	4-Aug-03	SLR @ BROADWY/LAUREL ST BRIDGE	80	
006	11-Aug-03	SLR @ BROADWY/LAUREL ST BRIDGE	300	
006	19-Aug-03	SLR @ BROADWY/LAUREL ST BRIDGE	1868	
006	26-Aug-03	SLR @ BROADWY/LAUREL ST BRIDGE	540	
006	2-Sep-03	SLR @ BROADWY/LAUREL ST BRIDGE	830	
006	8-Sep-03	SLR @ BROADWY/LAUREL ST BRIDGE	470	
006	15-Sep-03	SLR @ BROADWY/LAUREL ST BRIDGE	1530	
006	23-Sep-03	SLR @ BROADWY/LAUREL ST BRIDGE	1020	
006	29-Sep-03	SLR @ BROADWY/LAUREL ST BRIDGE	135	
006	6-Oct-03	SLR @ BROADWY/LAUREL ST BRIDGE	470	
006	14-Oct-03	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	20-Oct-03	SLR @ BROADWY/LAUREL ST BRIDGE	750	
006	27-Oct-03	SLR @ BROADWY/LAUREL ST BRIDGE	640	
006	4-Nov-03	SLR @ BROADWY/LAUREL ST BRIDGE	500	
006	12-Nov-03	SLR @ BROADWY/LAUREL ST BRIDGE	430	
006	17-Nov-03	SLR @ BROADWY/LAUREL ST BRIDGE	410	
006	24-Nov-03	SLR @ BROADWY/LAUREL ST BRIDGE	1200	
006	1-Dec-03	SLR @ BROADWY/LAUREL ST BRIDGE	3280	
006	9-Dec-03	SLR @ BROADWY/LAUREL ST BRIDGE	320	
006	15-Dec-03	SLR @ BROADWY/LAUREL ST BRIDGE	200	
006	22-Dec-03	SLR @ BROADWY/LAUREL ST BRIDGE	260	
006	31-Dec-03	SLR @ BROADWY/LAUREL ST BRIDGE	140	
006	5-Jan-04	SLR @ BROADWY/LAUREL ST BRIDGE	170	
006	12-Jan-04	SLR @ BROADWY/LAUREL ST BRIDGE	220	
006	20-Jan-04	SLR @ BROADWY/LAUREL ST BRIDGE	60	
006	2-Feb-04	SLR @ BROADWY/LAUREL ST BRIDGE	350	
006	17-Feb-04	SLR @ BROADWY/LAUREL ST BRIDGE	1330	
006	23-Feb-04	SLR @ BROADWY/LAUREL ST BRIDGE	60	
006	1-Mar-04	SLR @ BROADWY/LAUREL ST BRIDGE	420	
006	8-Mar-04	SLR @ BROADWY/LAUREL ST BRIDGE	10	
006	15-Mar-04	SLR @ BROADWY/LAUREL ST BRIDGE	260	
006	22-Mar-04	SLR @ BROADWY/LAUREL ST BRIDGE	50	
006	29-Mar-04	SLR @ BROADWY/LAUREL ST BRIDGE	180	
006	6-Apr-04	SLR @ BROADWY/LAUREL ST BRIDGE	80	

Appendix D.1 wtr qlty data SLRE

STANUM	DATE	LOCATION	Fecal coliform (CFU)	Total coliform (CFU)
006	12-Apr-04	SLR @ BROADWY/LAUREL ST BRIDGE	160	
006	19-Apr-04	SLR @ BROADWY/LAUREL ST BRIDGE	230	
006	26-Apr-04	SLR @ BROADWY/LAUREL ST BRIDGE	190	
006	3-May-04	SLR @ BROADWY/LAUREL ST BRIDGE	100	
006	10-May-04	SLR @ BROADWY/LAUREL ST BRIDGE	190	
006	17-May-04	SLR @ BROADWY/LAUREL ST BRIDGE	190	
006	26-May-04	SLR @ BROADWY/LAUREL ST BRIDGE	580	

Appendix D.2

Site	Description	Date	Time	GPS (north)	GPS (south)	pH	SpC	DO	DO%	Temp (C)	Sal	Substrate	Notes
SLRE 1	100 yards south (towards the ocean) of trestle	7/14/2004	10:30 AM	36.96545	-122.01145	7.9	28000	7.66	94.6	18.98	16	Completely sandy bottom. Rocky on one edge of lagoon.	This site had water flowing in from ocean. Numbers may fluctuate. Picked up a mussel shell (no organism inside) and small broken shell. May have washed in from the ocean. Visual search didn't show any mussels on piers or rocks.
SLRE 2	3rd house from the end closest to the ocean	7/14/2004	10:45 AM	36.96456	-122.01753	8.2	50900	8.02	100	16.22	33	Completely sandy bottom. Rocky on one edge of lagoon.	
SLRE 3	@ Water St. Bridge	7/14/2004	11:15 AM	36.97821	-122.02352	8.4	430.5	11.9	119	15.06	0.2	Rocky.	Fresh water flow. Lots of algae. Snails. No bivalves found.
Soquel Lagoon	if facing ocean, sampled on the right side of the lagoon	7/14/2004	12:30 PM	36.97194	-122.95177	8.7	752	11.2	126	20.73	0.4	Sandy.	Lagoon was completely shut off from the ocean at the time of sampling. NOAA folks were scuba diving at the time of sampling and indicated that they did not see any bivalves while diving.

On 7/14/04, Shanta Keeling, Doug Gouzie and Angela Carpenter visited San Lorenzo River Estuary and Soquel Lagoon to do some reconnaissance work regarding the presence (or absence) of shellfish in these two areas. Staff took water quality measurements. Visual observations of the substrate were noted. Additionally, staff looked for the presence of any type of bivalve in the area. No indications of any bivalves were noted. Water quality measurements and observations are located on the next worksheet.

Seeking stakeholder input on Regional Board's consideration of de-designating the SHELL beneficial use in both the San Lorenzo River Estuary and the Soquel Lagoon

Regional Board staff is considering de-designating the beneficial use of shellfishing from the San Lorenzo River Estuary and the Soquel Lagoon.

Staff has found no evidence of the shellfish harvesting beneficial use in the San Lorenzo River Estuary or the Soquel Lagoon. Hydraulic modifications, seasonal lagoon closure to tidal circulation, and lack of evidence of any historical or contemporary shellfish harvesting, have led Regional Board staff to consider removing the SHELL beneficial use in San Lorenzo River Estuary and Soquel Lagoon. These would be proposed as two separate items.

Staff feels the 1976 listing of a shellfish beneficial use for San Lorenzo River Estuary was in error. In the 1975 Basin Plan, San Lorenzo River Estuary did not have shellfishing listed as a beneficial use. In 1976, the Estuary was listed as having shellfishing as a beneficial use, with no supporting documentation or rationale. Shanta Keeling questioned staff at Region 3 as to why this change was made. Region 3 staffs' recollection was that in 1976, several waterbodies in the region were given a SHELL beneficial use, without supporting documentation, for what appeared to be administrative reasons. **Although legally, a UAA must be performed in order to remove the beneficial use of shellfishing from the San Lorenzo River Estuary, staff wants to emphasize that the initial listing of this waterbody for SHELL did not appear to be scientifically based.**

Soquel Lagoon was listed as part of a larger grouping of waterbodies in the 1975 Basin Plan. Again, staff did not find documentation to point out why this waterbody was listed for the SHELL beneficial use.

Staff has questioned numerous individuals who are knowledgeable about the areas. These include, but are not limited to County and City staff, researchers, Department of Fish and Game staff, and Department of Health Services. We have tried to contact anyone who might have information on this subject matter.

We bring this subject up today to ask if anyone has any information on the presence of shellfishing in either of these waterbodies.

If you could help us out and please fill out this form.

Angela Carpenter read this at a Nov. 15, 2005 meeting in Santa Cruz. The meeting was facilitated by the County of Santa Cruz. No one in attendance filled out a form and no one had any oral comments to Angela. No phone calls or emails were received by staff after the meeting. An attendance sheet is attached.

1/4 pages

MEETING NOTICE

Technical Advisory Committee

ASSESSMENT OF SANTA CRUZ COUNTY BEACH POLLUTION

November 15, 2005
Tuesday, 1:00 – 3:00 pm

Health Services Agency Small Auditorium, Basement
Building D, 1080 Emeline Street, Santa Cruz, CA

AGENDA

1. Introductions
2. Review of Draft Report: Assessment of Bacterial Contamination at Santa Cruz County Beaches
 - a. Findings
 - b. Recommendations
3. Regional Board Efforts
 - a. Pathogen TMDL Development for San Lorenzo, Capitola Lagoon, Aptos/Valencia Creeks – Use of Beach Water Quality Report for Implementation Plan
 - b. Use Attainability Analysis to remove the Shellfish Harvesting Beneficial Use from San Lorenzo River Estuary and Soquel Lagoon
4. Update on Status of Related Efforts?
 - a. Integrated Watershed Restoration Program: Countywide Lagoons
 - b. Sanctuary Water Quality Protection Program: Urban Runoff and Beach Action Plans
 - c. Prop 13 Capitola Lagoon Cooperative Water Quality Assessment
 - d. County Stormwater Program
 - e. Clean Beach Initiative Projects: Santa Cruz and Capitola
 - f. Others?

Please contact John Ricker (831-454-2750), if you have questions or comments.

3/4 pages

Appendix D.3

To: Shanta Keeling - RWQCB 805-788-5316

Beach Water Quality - 11/15/05

Name	Affiliation
John Ricker	S.C. Co. Env. Hlt.
Chris Case	City of Santa Cruz
Chris Coburn	NBNMS
Nicole Beck	Signature
Tress Jensen	S.C. County Pub. Wks
Steven Jesberg	Capitola
Dan Chua	S.C. County Sanitation District
Akin Babatola	City of Santa Cruz
Angela Carpenter	Co Regional Water Quality Control Board
Patricia Matijevic	Surfrider Fed. + Santa Cruz
John Alexiou	City of S.C. Marine Safety (P&R)
Steve Peters	County of Santa Cruz EHS
Monica Reid	Kestrel Consulting, Inc.
Dan Seidel	City of Santa Cruz
Kristy Morris	UCSC (Marc Los Huertos)
Suzanne Healy	City of Santa Cruz
Alyson Tom	SC County
Pachet Lather	SCCSD
Monica Reid	Coastal Watershed Council
Tamar Dan	City of SC
Steve Wolfman	City of Santa Cruz - DPW
Stephen O'Neil	City of Santa Cruz
Steve Wolfman	UCSC - Marc Los Huertos

Appendix D.4

Santa Cruz County Environmental Health Services has sampled the Estuary for conductivity. The stations sampled for conductivity are shown in the figure below and are used to determine the Estuary boundary. The figure below shows stations sampled for conductivity.

Table 1. Summary of Santa Cruz County Conductivity Data

Station	Number of Samples	Minimum	Average	Maximum	Start Date	End Date
San Lorenzo River Lagoon @ Trestle	170	4.12	13,136	52,600	10/29/01	02/28/05
San Lorenzo River Lagoon @ Broadway/Laurel Bridge	172	2.86	4,145	44,400	10/29/01	02/28/05
San Lorenzo River @ Soquel Avenue Bridge	29	163	697	4,400	11/24/86	02/19/97
San Lorenzo River @ Water Street Bridge	49	7.72	403	1,000	06/28/88	10/16/01
San Lorenzo River @ Sycamore Grove	229	0.415	402	4,690	10/29/01	07/11/05
Branciforte Creek @ San Lorenzo River	4	404	1,036	3,240	12/20/00	02/26/02
Branciforte Creek @ Carbonera Creek	7	299	484	657	06/28/88	01/24/02
Branciforte Creek @ Isabel Drive	282	100	509	980	08/44/77	06/15/05
Carbonera Creek @ Branciforte Creek	4	435	472	500	10/24/03	10/08/04

Staff concluded the Soquel Avenue Bridge is the approximate inland Estuary boundary. The next further inland station, "San Lorenzo River @ Water Street," exhibits nonsaline conditions. Table 2-1 above indicates: 1) decreased conductivity concentrations relative to the downstream Broadway/Laurel Street Bridge station and 2) increased conductivity relative to the Sycamore Grove station. Therefore, this station is subject to stagnate flows. Bacterial growth may be a factor contributing high concentrations at this station.

(One station, Branciforte Creek @ San Lorenzo River had high conductivity. This is attributed to one conductivity sample of 3,240 mg/L. This station only had four total samples. Staff considers this one high reading to be an anomaly.)