APPENDIX B

COLUSA STUDY AREA

WATER QUALITY DATA

APPENDIX B: COLUSA STUDY AREA WATER QUALITY DATA

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NOTE:

- Values reported as <##, < Reporting Limit was used.
- For *E. coli*, values reported as >2419.6 was used for evaluation.
- For summary calculations, one fourth of any < (less than) values were used.
- Reporting Limit values vary between labs depending on dilution factor, EPA method, and/or laboratory.
- Summary calculations are based on raw data values.

B 1: Colusa Basin Drain at Abel Road (520COL101)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/16/2012	10.0	8.17	18.6	48.9	700		260				100					
5/9/2012	7.25	8.11	23.9	52.2	580											
5/22/2012	6.90	7.71	22.7	58.2	560											
5/29/2012	7.44	7.88	20.6	69.0	470		220				120					
6/5/2012	7.62	7.93	20.8	50.9	730											
6/28/2012	7.17	7.71	23.3	47.7	630		410				82					
7/10/2012	5.59	7.64	25.6	217	550											
7/24/2012	6.18	7.65	24.7	36.7	550		260				53			32.8	180	23.1
8/15/2012	5.93	7.66	24.5	81.1	520	365										
8/28/2012	6.94	7.75	20.1	61.3	480	135	180				42					
9/11/2012	7.15	7.80	19.5	58.6	470	138										
9/25/2012	7.50	8.06	20.3	40.9	550	75.4	190	18	0.30	< 4.0	53	50	300	35	190	25
10/9/2012	7.79	7.76	18.5	36.3	580	248										
10/25/2012	5.46	7.84	13.6	9.80	320		140	14			28	30	200	21	110	14
11/13/2012	8.52	7.60	10.9	7.80	310	29.8										
11/29/2012	6.81	7.64	11.9	46.6	380		140	17			38	40	200		135	
12/11/2012	7.42	7.47	10.9	21.9	380	60.5										
12/26/2012	9.67	7.70	8.19	160.	380		130				35			24	130	17
1/8/2013	11.00	7.74	7.65	34.5	520	345										
1/29/2013	11.00	7.89	10.2	72.6	710		210	29	0.43	< 2.0	71	100	400	38	210	29
2/12/2013	11.00	8.09	9.73	55.2	930	53.7										
2/28/2013	12.00	8.07	12.1	39.3	1100		370	56			150	200	700	58	340	46
3/12/2013	11.00	8.25	14.4	40.4	810	60.2										
3/27/2013	8.69	7.98	15.6	60.1	670		240	31	0.34	< 1.0	76	100	400	36	200	27
4/24/2013	7.29	8.22	17.3	62.9	430	115	180	16	0.26		41	50	300	23	120	15
5/20/2013	8.11	8.02	20.6	42.5	550	138	290	19	0.42		64	80	300	30	170	22
6/18/2013	9.85	7.78	22.9	33.8	630	78.9	320	18	0.51	< 2.0	73	80	400	30	170	23
7/24/2013		7.14	25.3	23.8	530	62.7	290	12	0.28		51	40	300	33	180	24
8/27/2013	6.18	7.60	21.3	64.5	502	85.7	210	14	0.30		46	20	300	33	170	22
9/24/2013		8.25	20.1	48.7	510	239	180	19	0.26	< 2.0	48	50	300			
Count	28	30	30	30	30	16	18	12	9	5	18	12	12	12	13	12
Min	5.46	7.14	7.70	7.80	310	29.8	130	12	0.26	< 1.0	28	19	200	21	110	14
Max	12.0	8.25	25.6	217	1100	365	410	56	0.51	< 4.0	150	200	700	58	340	46
Median	7.47	7.79	19.8	48.8	546	100	210	18	0.30	< 2.0	53	51	315	33	170	23
Mean	8.50	7.84	17.9	56.1	568	139	230	22	0.34	0.55	65	69	347	33	180	24

B 1: Colusa Basin Drain at Abel Road (520COL101) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	0.41	< 0.15					2700		< 10.			
5/9/2012												
5/22/2012												
5/29/2012	< 0.11	< 0.15					3700		< 10.			
6/5/2012												
6/28/2012	< 0.11						840		5.4			
7/10/2012												
7/24/2012							450		< 10.			
8/15/2012												
8/28/2012	< 0.11						720		< 10.			
9/11/2012												
9/25/2012	0.30		< 50.		47.4	< 10.	2200	< 5.0	3.4	110	< 1.0	< 1.0
10/9/2012												
10/25/2012	0.29											
11/13/2012												
11/29/2012	0.31											
12/11/2012												
12/26/2012	0.48											
1/8/2013												
1/29/2013	0.47		< 5.0		96.0	< 1.0	3600	< 0.5		130	< 0.5	< 0.25
2/12/2013												
2/28/2013	0.45											
3/12/2013												
3/27/2013	0.58		8.8		32.0	1.5	2000	< 0.5		99	< 0.5	< 0.25
4/24/2013	0.29			2.5					3.4			
5/20/2013	< 0.22			3.1					4.1			
6/18/2013	0.25		< 5.0	6.2	30.0	< 1.0	1700	< 0.5	8.0	91	< 0.5	< 0.25
7/24/2013	< 0.22			3.5					4.2			
8/27/2013	< 0.22			2.4					4.3			
9/24/2013	0.41		< 5.0	3.5	49.0	2.9	1600	< 0.5	3.7	96	< 0.5	< 0.25
Count	17	2	5.0	6	5	5	10	5	12	5	5	5
Min	< 0.11	< 0.15	< 5.0	2.4	30.0	< 1.0	450	< 0.5	3.4	91	< 0.5	< 0.25
Max	0.58	< 0.15	< 50.	6.2	96.0	< 10.	3700	< 5.0	< 10.	130	< 1.0	< 1.0
Median	0.29	< 0.15	< 5.0	3.3	47.4	1.5	1900	< 0.5	4.9	99	< 0.5	< 0.25
Mean	0.28	< 0.15	13	3.5	50.9	1.5	1900	0.4	3.9	110	0.2	0.40

B 1: Colusa Basin Drain at Abel Road (520COL101) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/16/2012			4100		330								
5/9/2012													
5/22/2012													
5/29/2012			3800		200								
6/5/2012													
6/28/2012			1500		200								
7/10/2012													
7/24/2012			750		150								
8/15/2012													
8/28/2012			1100		150								
9/11/2012													
9/25/2012	5.7	< 5.0	3300	< 1.0	180	< 0.2	< 5.0	9.0	< 20.	< 5	< 1.0	11.0	8.6
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	9.2	8.5	5900	1.5	390	< 0.2		13	< 1.0	< 1	< 1.0		12
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	5.4	5.8	3300	0.94	250	< 0.2		7.4	< 1.0	< 1	< 1.0		8.5
4/24/2013													
5/20/2013													
6/18/2013	4.4	7.1	2600	0.71	190	< 0.2		8.2	< 1.0	< 1	< 1.0		7.4
7/24/2013													
8/27/2013													
9/24/2013	4.0	4.6	2000	0.68	170	< 0.2		5.5	< 1.0	< 0.3	< 1.0		6.6
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	4.0	4.6	750	0.68	150	< 0.2	< 5.0	5.5	< 1.0	< 0.3	< 1.0	11.0	6.6
Max	9.2	8.5	5900	1.5	390	< 0.2	< 5.0	13	< 20.	< 5	< 1.0	11.0	12
Median	5.4	5.8	3000	0.94	190	< 0.2	< 5.0	8.2	< 1.0	< 1	< 1.0	11.0	8.5
Mean	5.7	5.5	2800	0.82	220	< 0.2	< 5.0	8.6	1.2	0.4	< 1.0	11.0	8.6

B 1: Colusa Basin Drain at Abel Road (520COL101) continued…

	Organics															
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	3	3	4	4	3	3	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

B 1: Colusa Basin Drain at Abel Road (520COL101) continued…

	Organics															
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L	mg/L	µg/L													
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
6/5/2012																
6/28/2012	< 0.5	< 0.5	< 0.5		< 0.5									< 10	< 5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	4	4	4	3	4	3	3	3	3	3	3	3	3	1	1	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5

B 1: Colusa Basin Drain at Abel Road (520COL101) continued…

	Organics															
	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
Date	µg/L	mg/L	µg/L													
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	4	4	3	3	4	4	4	4	3	4	4	4	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 1: Colusa Basin Drain at Abel Road (520COL101) continued…

	Organics															
	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
Date	µg/L	mg/L	µg/L													
4/16/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012							< 10									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	4	2	4	1	3	4	4	4	4	4	4	4	4
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5		< 0.1			< 0.5	< 0.5	< 0.5

B 1: Colusa Basin Drain at Abel Road (520COL101) continued…

	Organics																
Date	o-Xylene	Percholate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L	mg/L	µg/L													
4/16/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/29/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 2														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 1														
4/24/2013																
5/20/2013																
6/18/2013		< 2														
7/24/2013																
8/27/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 1	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

B 2: Colusa Basin Drain at Hwy 20 (520COL006)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/16/2012	8.35	8.16	17.8	58.0	890		290				120					
5/9/2012	7.83	7.61	23.4	54.1	560											
5/22/2012	7.61	7.74	22.2	58.8	430		190				96					
6/5/2012	9.22	7.60	19.2	41.4	570											
6/28/2012	7.65	7.75	22.8	48.2	490		240				53					
7/10/2012	6.13	7.60	25.7	36.6	500											
7/24/2012	6.27	7.58	24.9	34.4	480		210				42			31	170	21.7
8/15/2012	6.42	7.59	24.3	39.8	470	866										
8/28/2012	7.45	7.65	19.9	43.2	460	142	150				36					
9/11/2012	7.10	7.72	19.5	50.4	440	115										
9/25/2012	8.01	7.98	20.2	68.3	540	155		20	0.29	< 4.0	49	46	300			
10/9/2012	8.41	7.93	17.9	56.5	550	101										
10/25/2012	8.94	7.69	13.3	24.4	470			20			44	58	300	31	170	21
11/13/2012	11.0	7.55	11.2	23.0	440	64.4										
11/29/2012	8.19	7.55	12.2	105	440		150	20			39	42	300		135	
12/11/2012	5.53	7.37	10.6	20.8	540	59.1										
12/26/2012	9.31	7.89	8.32	160	370		130				33			23	120	16
1/8/2013	12.0	7.80	8.66	70.8	510	387										
1/29/2013	11.0	7.94	10.5	86.2	630		190	20	0.42	< 2.0	63	63	400	36	200	27
2/12/2013	10.9	8.18	10.0	72.7	840	46.4										
2/28/2013	11.4	7.55	12.4	53.5	1100		340	60			140	160	600	53	300	42
3/12/2013	10.4	8.12	14.9	72.9	780	96.0										
3/27/2013	9.00	8.00	16.0	70.1	660		250	30	0.37	< 2.0	70	81	400	37	200	27
4/24/2013	8.53	7.51	17.2	80.5	380	214	180	10	0.22		38	46	200	25	130	16
5/20/2013	8.28	7.99	20.6	31.8	460	108	240	20	0.41		55	60	300	29	160	20
6/18/2013	7.13	7.83	22.5	22.4	540	205	250	10	0.43	< 2.0	58	53	300	29	160	22
7/24/2013		7.73	24.0	40.3	580	73.3	250	10	0.24		41	28	300	33	180	24
8/27/2013	7.20	7.62	21.2	52.3	440	140	170	10	0.21		37	17	300	33	180	23
9/24/2013		7.94	19.6	58.8	500	214	180	20	0.26	< 2.0	47	51	300			
Count	27	29	29	29	29	16	16	12	9	5	18	12	12	11	12	11
Min	5.53	7.37	8.32	20.8	370	46.4	130	10	0.21	< 2.0	33	17	240	23	120	16
Max	11.8	8.18	25.7	160	1100	866	340	60	0.43	< 4.0	140	160	640	53	300	42
Median	8.28	7.73	19.2	53.5	500	127	190	10	0.29	< 2.0	48	52	295	31	170	22
Mean	8.46	7.76	17.6	56.4	550	187	210	20	0.32	0.6	59	59	331	33	180	24

B 2: Colusa Basin Drain at Hwy 20 (520COL006) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	0.42	< 0.15					2200		< 10.			
5/9/2012												
5/22/2012	0.20	< 0.15					2700		< 10.			
6/5/2012												
6/28/2012	0.12						1200		3.3			
7/10/2012												
7/24/2012							1300		< 10.			
8/15/2012												
8/28/2012	0.15						720		< 10.			
9/11/2012												
9/25/2012	0.28		< 50.		88.3	< 10.	2100	< 5	3.2	110	< 1	< 1.0
10/9/2012												
10/25/2012	0.31											
11/13/2012												
11/29/2012	0.36											
12/11/2012												
12/26/2012	0.48											
1/8/2013												
1/29/2013	< 0.44		< 5.0		130.	< 1.0	3900	< 0.5		140	< 0.5	< 0.25
2/12/2013												
2/28/2013	0.53											
3/12/2013												
3/27/2013	0.84		7.7		24.0	< 1.0	2500	< 0.5		110	< 0.5	< 0.25
4/24/2013	< 0.22			2.2					3.3			
5/20/2013	< 0.22			2.7					3.7			
6/18/2013	< 0.22		6.7	4.0	41.0	< 1.0	1200	< 0.5	5.0	91	< 0.5	< 0.25
7/24/2013	< 0.22			3.2					4.1			
8/27/2013	< 0.22			2.1					4.5			
9/24/2013	0.44		< 5.0	3.2	46.0	< 1.0	3200	< 0.5	4.2	120	< 0.5	< 0.25
Count	17	2	5.0	6	5	5	10	5	12	5	5	5
Min	0.12	< 0.15	< 5.0	2.1	24.0	< 1.0	720	< 0.5	3.2	91	< 0.5	< 0.25
Max	0.84	< 0.15	< 50.	4.0	130.	< 10.	3900	< 5	< 10.	140	< 1	< 1.0
Median	0.28	< 0.15	< 6.7	3.0	46.0	1.0	2100	< 0.5	4.4	110	< 0.5	< 0.25
Mean	0.29	< 0.15	5.9	2.9	65.9	0.70	2100	0.4	3.4	110	0.2	0.10

B 2: Colusa Basin Drain at Hwy 20 (520COL006) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/16/2012			3200		320								
5/9/2012													
5/22/2012			3500		220								
6/5/2012													
6/28/2012			2000		140								
7/10/2012													
7/24/2012			1600		180								
8/15/2012													
8/28/2012			1200		160								
9/11/2012													
9/25/2012	7.7	5.2	3300	< 1.0	220	< 0.2	< 5.0	8.9	< 20.	< 5	< 1.0	11.0	8.2
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	9.9	9.5	6600	1.7	380	< 0.2		14	< 1.0	< 1	< 1.0		14
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	6.6	6.8	4000	1.2	230	< 0.2		8.3	< 1.0	< 1	< 1.0		9.9
4/24/2013													
5/20/2013													
6/18/2013	3.0	6.0	1800	0.52	120	< 0.2		6.8	< 1.0	< 1	< 1.0		< 5.0
7/24/2013													
8/27/2013													
9/24/2013	8.2	8.0	4600	1.5	270	< 0.4		10	< 1.0	< 0.3	< 1.0		12
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	3.0	5.2	1170	0.52	120	< 0.2	< 5.0	6.8	< 1.0	< 0.3	< 1.0	11.0	< 5
Max	9.9	9.5	6600	1.7	380	< 0.4	< 5.0	14	< 20.	< 5	< 1.0	11.0	14
Median	7.7	6.8	3300	1.2	220	< 0.2	< 5.0	8.9	< 1.0	< 1	< 1.0	11.0	9.9
Mean	7.1	7.1	3200	1.0	220	0.1	< 5.0	9.6	1.2	0.4	< 1.0	11.0	9.1

B 2: Colusa Basin Drain at Hwy 20 (520COL006) continued…

	Organics															
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012															
6/5/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	3	3	4	4	3	3	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

B 2: Colusa Basin Drain at Hwy 20 (520COL006) continued…

	Organics														
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5		
5/22/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5		
5/29/2012															
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5		< 0.5									< 10	< 5
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5		
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	4	3	4	3	3	3	3	3	3	3	3	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5

B 2: Colusa Basin Drain at Hwy 20 (520COL006) continued…

	Organics															
Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/22/2012	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		< 0.5
5/29/2012				< 0.5	< 0.5						< 0.5				< 0.5	
6/5/2012																
6/28/2012	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	4	3	3	4	4	3	3	4	4	4	4	3	4	4	4	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 2: Colusa Basin Drain at Hwy 20 (520COL006) continued…

	Organics															
Date	Dichlorodifluoromethane	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/16/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/22/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1		< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012											< 0.1					
6/5/2012																
6/28/2012					< 0.5		< 0.5		< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	3	4	2	4	3	4	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5		< 0.1			< 0.5	< 0.5	< 0.5

B 2: Colusa Basin Drain at Hwy 20 (520COL006) continued…

	Organics															
Date	o-Xylene	Percholate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/16/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/22/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/29/2012																
6/5/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 2														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/24/2013																
5/20/2013																
6/18/2013		< 2														
7/24/2013																
8/27/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

B 3: Colusa Effluent

	Field Data					Bacteria	General Chemistry								Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Ammonia as N	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	mg/L	µg/L	mg/L								
4/16/2012	4.08	7.47	18.5	0.7	910			380				170					
5/9/2012		7.76	22.1	2.3	1020												
5/29/2012	8.34	7.49	22.4	1.5	900			430				370					
6/4/2012			22.4	2.4													
6/5/2012		7.30			900												
6/28/2012	5.54	7.65	24.9	1.1	990		< 1.0	490	86	0.78		170	38	610	16	78	9.2
7/10/2012	8.11	7.85	27.1	0.6	NR												
7/24/2012	7.27	7.38	27.3	1.2	850			370				150			14.4	77	10.1
8/15/2012	8.30	7.48	28.0	0.9	860	< 1.0											
8/28/2012	7.86	7.61	25.4	0.6	850	< 1.0		390				143					
9/11/2012	7.35	7.37	25.2	2.0	870	< 1.0											
9/25/2012	9.50	7.57	24.2	0.9	830	1.0		380	64	0.53	< 4.0	140	31	500	14	70	8.6
10/9/2012	8.19	7.49	23.0	1.0	810	< 1.0											
10/25/2012	7.57	7.52	19.8	1.6	810				66			140	32	520	15	66	7.1
11/13/2012	9.49	7.37	18.1	0.6	900	< 1.0											
11/29/2012	8.60	7.42	17.6	1.0	890			360	76			140	42	600		85	
12/11/2012	7.69	7.16	16.5	0.4	900	< 1.0											
12/26/2012	7.77	7.34	14.0	0.8	850			380				130			18	89	11
1/8/2013	8.02	7.40	14.8	0.6	910	< 1.0											
1/29/2013	10.00	7.55	15.1	1.3	930			440	78	0.63	< 4.0	150	46	590	19	98	12
2/12/2013	12.15	7.70	18.1	2.6	960	< 1.0											
2/28/2013	8.94	7.59	15.5	2.0	940			430	81			160	44	580	19	97	12
3/12/2013	8.82	7.79	16.7	3.3	960	< 1.0											
3/27/2013	9.78	7.60	18.4	1.9	890			420	84	0.58	< 60	150	37	580	17	79	9.2
4/24/2013	9.70	7.47	19.2	5.2	960	< 1.0		530	95	0.58		180	55	650	20	100	13
5/20/2013	9.06	7.53	22.0	0.6	980	< 1.0		410	88	0.44		160	48	620	21	110	13
6/5/2013		7.40	23.6														
6/18/2013	7.75	7.44	24.7	0.9	910	< 1.0		360	80.	0.44	< 40	150	38	570	18	88	11
7/2/2013		7.30	29.8														
7/24/2013		7.32	26.2	0.6	870	< 1.0		470	77	0.29		150	32	560	16	82	10
8/7/2013		7.20	25.6	0.6													
8/27/2013	7.80	7.31	58.9	1.0	910	< 1.0		450	78	0.34		150	38	560	19	98	12
9/5/2013		6.90	25.5	0.4													
9/24/2013		7.60	24.0	1.1	910	< 1.0		460	78	0.27	< 20	150	40.	540			
Count	25	33	33	31	28	16	1	17	13	10	5	18	13	13	13	14	13
Min	4.08	6.90	14.0	0.4	810	< 1.0	< 1.0	360	64	0.27	< 4.0	130	31	500	14	66	7.1
Max	12.2	7.85	58.9	5.2	1020	< 1.0	< 1.0	530	95	0.78	< 60	370	55	650	21	110	13
Median	8.19	7.47	22.4	1.0	903	< 1.0	< 1.0	420	78	0.49	< 20	150	38	580	18	87	11
Mean	8.31	7.46	22.9	1.3	903	< 1.0	< 1.0	420	79	0.49	6.4	160	40.	580	17	87	11

B 3: Colusa Effluent continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	21	0.22					< 50.		< 10.			
5/9/2012												
5/29/2012	25	< 0.15					< 50.		< 10.			
6/4/2012												
6/5/2012												
6/28/2012	26						24	< 1	4.0	37		< 0.2
7/10/2012												
7/24/2012							< 50.		< 10.			
8/15/2012												
8/28/2012	25						< 50.		< 10.			
9/11/2012												
9/25/2012	23		< 50.		57.0	< 10.	< 50.	< 5	3.5	32	< 1	< 1
10/9/2012												
10/25/2012	26											
11/13/2012												
11/29/2012	30.											
12/11/2012												
12/26/2012	23											
1/8/2013												
1/29/2013	31		12		32.0	< 1.0	21	< 0.5		40.	< 0.5	< 0.3
2/12/2013												
2/28/2013	25											
3/12/2013												
3/27/2013	30.		8.7		28.0	3.5	55	< 0.5		35	< 0.5	< 0.3
4/24/2013	24			2.7					3.1			
5/20/2013	30			1.3					1.4			
6/5/2013												
6/18/2013	31		19	1.8	20.0	< 1.0	24	< 0.5	1.8	42	< 0.5	< 0.3
7/2/2013												
7/24/2013	29			3.0					2.9			
8/7/2013												
8/27/2013	26			1.5					1.6			
9/5/2013												
9/24/2013	31		14	1.5	29.0	< 1.0	17	< 0.5	1.3	42	< 0.5	< 0.3
Count	17	2	5.0	6	5	5	10.	6	12	6	5	6
Min	21	< 0.15	8.7	1.3	20.0	< 1.0	17	< 0.5	1.3	32	< 0.5	< 0.2
Max	30.	0.22	< 50.	3.0	57.0	< 10.	55	< 5.	< 10.	42	< 1	< 1
Median	26	0.19	14	1.7	29.0	< 1.0	< 50.	< 0.5	3.3	39	< 0.5	< 0.3
Mean	27	0.13	13	2.0	33.2	1.4	20.	0.3	2.5	38	0.2	0.1

B 3: Colusa Effluent continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/16/2012			41		< 10.								
5/9/2012													
5/29/2012			32		< 10.								
6/4/2012													
6/5/2012													
6/28/2012	1.1	6.4	63	< 0.50	< 1.0			2.1	1.2	< 1	< 1.0		37
7/10/2012													
7/24/2012			< 20.		< 10.								
8/15/2012													
8/28/2012			28		< 10.								
9/11/2012													
9/25/2012	< 5.0	< 5.0	31	< 1.0	< 5.0	< 0.2	< 5.0	< 5.0	< 20.	< 5	< 1.0	< 10.0	28
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	< 0.50	11	42	0.77	< 1.0	< 0.2		1.2	< 1.0	< 1	< 1.0		38
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	0.52	4.4	95	0.17	3.8	< 0.2		1.5	< 1.0	< 1	< 1.0		34
4/24/2013													
5/20/2013													
6/5/2013													
6/18/2013	< 0.50	7.6	27	0.11	< 1.0	< 0.2		1.8	< 1.0	< 1	< 1.0		36
7/2/2013													
7/24/2013													
8/7/2013													
8/27/2013													
9/5/2013													
9/24/2013	< 0.50	4.6	32	0.11	< 1.0	< 0.4		1.7	< 1.0	< 0.3	< 1.0		29
Count	6	6	10	6	10	5	1	6	6	6	6	1	6
Min	< 0.50	4.4	< 20.	0.11	< 1.0	< 0.2	< 5.0	1.2	< 1.0	< 0.3	< 1.0	< 10.0	28
Max	< 5.0	11	95	< 1.0	< 10.	< 0.4	< 5.0	< 5.0	< 20.	< 5	< 1.0	< 10.0	38
Median	0.51	5.7	32	0.34	4.4	< 0.2	< 5.0	1.8	< 1.0	< 1	< 1.0	< 10.0	35
Mean	0.54	5.9	41	0.26	1.6	0.1	< 5.0	1.6	1.2	0.4	< 1.0	< 10.0	34

B 3: Colusa Effluent continued…

Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)	1,2-Dichloropropane
	Organics															
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/5/2012																
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	< 2	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/5/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/7/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	< 2	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5		< 0.5

B 3: Colusa Effluent continued…

	Organics															
Date	1,2-Diphenylhydrazine	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2,3,7,8-TCDD (Dioxin)	2,4,5-T	2,4,5-TP (Silvex)	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-D	2,4-DB	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol
	µg/L															
4/16/2012		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5										
5/29/2012		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5										
6/4/2012																
6/5/2012																
6/28/2012	< 5	< 0.5	< 0.5	< 0.5	< 0.5		< 5.4	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5										
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/5/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/7/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	1	4	4	4	4	3	1	1	1	1	1	1	1	1	1	1
Min	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5
Max	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5
Median	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5
Mean	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 0.5	< 0.5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5

B 3: Colusa Effluent continued…

	Organics															
Date	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Butanone	2-Chloronaphthalene	2-Chlorophenol	2-Chlorotoluene	2-Hexanone	2-Methylnaphthalene	2-Methylphenol	2-Nitroaniline	2-Nitrophenol	3,3'-Dichlorobenzidine	3-Hydroxycarbofuran	3-Methylphenol	3-Nitroaniline	4,4'-DDD
	µg/L															
4/16/2012			< 5			< 0.5	< 5									
5/29/2012			< 5			< 0.5	< 5									
6/4/2012																
6/5/2012																
6/28/2012	< 5	< 5		< 5	< 5			< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 0.05
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012			< 5			< 0.5	< 5									
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/5/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/7/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	1	1	3	1	1	3	3	1	1	1	1	1	1	1	1	1
Min	< 5	< 5	< 5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 0.05
Max	< 5	< 5	< 5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 0.05
Median	< 5	< 5	< 5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 0.05
Mean	< 5	< 5	< 5	< 5	< 5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 2	< 5	< 5	< 0.05

B 3: Colusa Effluent continued…

	Organics															
	4,4'-DDE	4,4'-DDT	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chloroaniline	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Acetone
Date	µg/L															
4/16/2012								< 0.5	< 0.5	< 5						< 5
5/29/2012								< 0.5	< 0.5	< 5						< 5
6/4/2012																
6/5/2012																
6/28/2012	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5			< 5	< 5	< 5	< 5	< 5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012								< 0.5	< 0.5	< 5						< 5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/5/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/7/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	1	1	1	1	1	1	1	4	3	3	1	1	1	1	1	3
Min	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Max	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Median	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Mean	< 0.05	< 0.05	< 5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 5	< 5	< 5

B 3: Colusa Effluent continued…

Date	Organics															
	Acrolein	Acrylonitrile	Aldicarb	Aldicarb sulfone	Aldrin	alpha-BHC	alpha-Chlordane	Anthracene	Atrazine	Azinphos methyl	Benzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene
	µg/L															
4/16/2012											< 0.5					
5/29/2012											< 0.5					
6/4/2012																
6/5/2012																
6/28/2012	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 5	< 5	< 5	< 5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012											< 0.5					
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/5/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/7/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	1	1	1	1	1	1	1	1	1	1	4	1	1	1	1	1
Min	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 5	< 5	< 5	< 5
Max	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 5	< 5	< 5	< 5
Median	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 5	< 5	< 5	< 5
Mean	< 10	< 5	< 2	< 2	< 0.05	< 0.05	< 0.05	< 5	< 0.5	< 0.2	< 0.5	< 5	< 5	< 5	< 5	< 5

B 3: Colusa Effluent continued…

	Organics															
Date	Benzo(k)fluoranthene	beta-BHC	Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ether	Bis(2-ethylhexyl)phthalate	Bolstar	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Butyl benzyl phthalate	Carbaryl	Carbofuran	Carbon disulfide
	µg/L															
4/16/2012								< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				< 0.5
5/29/2012								< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				< 0.5
6/4/2012																
6/5/2012																
6/28/2012	< 5	< 0.05	< 5	< 5	< 5	< 5	< 0.2		< 0.5	< 0.5	< 0.5	< 2	< 5	< 2	< 2	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012								< 0.5	< 0.5	< 0.5	< 0.5	< 0.5				< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/5/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/7/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	1	1	1	1	1	1	1	3	4	4	4	4	1	1	1	4
Min	< 5	< 0.05	< 5	< 5	< 5	< 5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 2	< 2	< 0.5
Max	< 5	< 0.05	< 5	< 5	< 5	< 5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 5	< 2	< 2	< 0.5
Median	< 5	< 0.05	< 5	< 5	< 5	< 5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 2	< 2	< 0.5
Mean	< 5	< 0.05	< 5	< 5	< 5	< 5	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5		< 5	< 2	< 2	< 0.5

B 3: Colusa Effluent continued…

	Organics																
Date	Carbon tetrachloride	Chlordane (tech)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Chlorpyrifos	Chrysene	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Coumaphos	Dalapon	delta-BHC	Demeton O/S	Diazinon	Dibenzo(a,h)anthracene	Dibenzofuran
	µg/L																
4/16/2012	< 0.5		< 0.5	< 0.5	0.1	< 0.5			< 0.5	< 0.5							
5/29/2012	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5							
6/4/2012																	
6/5/2012																	
6/28/2012	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5		0.98	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	< 0.5							
9/11/2012																	
9/25/2012																	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013																	
2/28/2013																	
3/12/2013																	
3/27/2013																	
4/24/2013																	
5/20/2013																	
6/5/2013																	
6/18/2013																	
7/2/2013																	
7/24/2013																	
8/7/2013																	
8/27/2013																	
9/5/2013																	
9/24/2013																	
Count	4	1	4	4	4	3	1	1	4	4	1	1	1	1	1	1	1
Min	< 0.5	< 0.11	< 0.5	< 0.5	< 0.1	< 0.5	0.98	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5
Max	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	< 0.5	0.98	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5
Median	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	< 0.5	0.98	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5
Mean	< 0.5	< 0.11	< 0.5	< 0.5	< 0.4	< 0.5	0.98	< 5	< 0.5	< 0.5	< 0.2	< 20	< 0.05	< 0.2	< 0.2	< 5	< 5

B 3: Colusa Effluent continued…

	Organics																
Date	Dibromochloromethane	Dibromomethane	Dicamba	Dichlorodifluoromethane	Dichloroprop	Dichlorvos	Dieldrin	Diethyl phthalate	Di-isopropyl ether	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Dinoseb	Dioxacarb	Diphenylamine	Disulfoton	Endosulfan I
	µg/L																
4/16/2012	< 0.5	< 0.5		< 0.5					< 0.5								
5/29/2012	< 0.5	< 0.5		< 0.5					< 0.5								
6/4/2012																	
6/5/2012																	
6/28/2012	< 0.5	< 0.5	< 0.5		< 5	< 0.2	< 0.05	< 5		< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012	< 0.5	< 0.5		< 0.5					< 0.5								
9/11/2012																	
9/25/2012																	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013																	
2/28/2013																	
3/12/2013																	
3/27/2013																	
4/24/2013																	
5/20/2013																	
6/5/2013																	
6/18/2013																	
7/2/2013																	
7/24/2013																	
8/7/2013																	
8/27/2013																	
9/5/2013																	
9/24/2013																	
Count	4	4	1	3	1	1	1	1	3	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.2	< 0.05	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.2	< 0.05	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.2	< 0.05	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.2	< 0.05	< 5	< 0.5	< 5	< 5	< 5	< 2.5	< 2	< 5	< 0.5	< 0.05

B 3: Colusa Effluent continued…

	Organics																
Date	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Ethanol	Ethoprop	Ethyl tert-Butyl Ether	Ethylbenzene	Fensulfothion	Fenthion	Fluoranthene	Fluorene	gamma-BHC (Lindane)	gamma-Chlordane	Gasoline Range Hydrocarbons	Heptachlor
	µg/L																
4/16/2012						< 20		< 0.5	< 0.5							< 50	
5/29/2012						< 20		< 0.5	< 0.5							< 50	
6/4/2012																	
6/5/2012																	
6/28/2012	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.2		< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05		< 0.05
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012						< 20		< 0.5	< 0.5								
9/11/2012																	
9/25/2012																	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013																	
2/28/2013																	
3/12/2013																	
3/27/2013																	
4/24/2013																	
5/20/2013																	
6/5/2013																	
6/18/2013																	
7/2/2013																	
7/24/2013																	
8/7/2013																	
8/27/2013																	
9/5/2013																	
9/24/2013																	
Count	1	1	1	1	1	3	1	3	4	1	1	1	1	1	1	2	1
Min	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 20	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05	< 50	< 0.05
Max	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 20	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05	< 50	< 0.05
Median	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 20	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05	< 50	< 0.05
Mean	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 20	< 0.2	< 0.5	< 0.5	< 0.2	< 0.2	< 5	< 5	< 0.05	< 0.05	< 50	< 0.05

B 3: Colusa Effluent continued…

	Organics																
Date	Heptachlor epoxide	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Hexavalent Chromium	Indeno(1,2,3-cd)pyrene	Iodomethane	Isophorone	Isopropylbenzene	m,p-Xylene	MBAs	MCPA	MCPP	Merphos	Methiocarb	Methomyl
	µg/L																
4/16/2012			< 0.5					< 0.5		< 0.5	< 1	0.17					
5/29/2012			< 0.5					< 0.5		< 0.5	< 1						
6/4/2012												0.14					
6/5/2012																	
6/28/2012	< 0.05	< 5	< 5	< 5	< 5		< 5		< 5	< 0.5	< 0.5		< 30	< 30	< 0.2	< 2	< 2
7/10/2012												0.14					
7/24/2012																	
8/15/2012																	
8/28/2012			< 0.5					< 0.5		< 0.5	< 1						
9/11/2012												< 0.10					
9/25/2012						< 10											
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013																	
2/28/2013																	
3/12/2013																	
3/27/2013																	
4/24/2013																	
5/20/2013																	
6/5/2013																	
6/18/2013																	
7/2/2013																	
7/24/2013																	
8/7/2013																	
8/27/2013																	
9/5/2013																	
9/24/2013																	
Count	1	1	4	1	1	1	1	3	1	4	4	4	1	1	1	1	1
Min	< 0.05	< 5	< 0.5	< 5	< 5	< 10	< 5	< 0.5	< 5	< 0.5	< 0.5	< 0.10	< 30	< 30	< 0.2	< 2	< 2
Max	< 0.05	< 5	< 5	< 5	< 5	< 10	< 5	< 0.5	< 5	< 0.5	< 1	0.17	< 30	< 30	< 0.2	< 2	< 2
Median	< 0.05	< 5	< 0.5	< 5	< 5	< 10	< 5	< 0.5	< 5	< 0.5	< 1	0.14	< 30	< 30	< 0.2	< 2	< 2
Mean	< 0.05	< 5		< 5	< 5	< 10	< 5	< 0.5	< 5	< 0.5		0.12	< 30	< 30	< 0.2	< 2	< 2

B 3: Colusa Effluent continued…

	Organics																
Date	Methoxychlor	Methyl parathion	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Mevinphos	Naled	Naphthalene	n-Butylbenzene	Nitrobenzene	n-Nitrosodimethylamine	n-Nitrosodi-n-propylamine	n-Nitrosodiphenylamine	n-Propylbenzene	o-Xylene	PCB-1016	PCB-1221	PCB-1232
	µg/L																
4/16/2012			< 5	< 0.5			< 0.5	< 0.5					< 0.5	< 0.5			
5/29/2012			< 5	< 0.5			< 0.5	< 0.5					< 0.5	< 0.5			
6/4/2012																	
6/5/2012																	
6/28/2012	< 0.05	< 0.2	< 1	< 1	< 0.2	< 0.2	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012			< 5	< 0.5			< 0.5	< 0.5					< 0.5	< 0.5			
9/11/2012																	
9/25/2012																	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013																	
2/12/2013																	
2/28/2013																	
3/12/2013																	
3/27/2013																	
4/24/2013																	
5/20/2013																	
6/5/2013																	
6/18/2013																	
7/2/2013																	
7/24/2013																	
8/7/2013																	
8/27/2013																	
9/5/2013																	
9/24/2013																	
Count	1	1	4	4	1	1	4	4	1	1	1	1	4	4	1	1	1
Min	< 0.05	< 0.2	< 1	< 0.5	< 0.2	< 0.2	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.05	< 0.2	< 5	< 1	< 0.2	< 0.2	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.05	< 0.2	< 5	< 0.5	< 0.2	< 0.2	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.05	< 0.2			< 0.2	< 0.2	< 0.5	< 0.5	< 5	< 5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 3: Colusa Effluent continued…

	Organics																
Date	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Pentachlorophenol	Percholate	Phenanthrene	Phenol	Phorate	p-Isopropyltoluene	Promecarb	Propoxur (Baygon)	Pyrene	Ronnel (Fenchlorphos)	sec-Butylbenzene	Simazine	Stirophos (Tetrachlorvinphos)
	µg/L																
4/16/2012															< 0.5		
5/29/2012															< 0.5		
6/4/2012																	
6/5/2012																	
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 5		< 5	< 5	< 0.2	< 0.5	< 2	< 2	< 5	< 0.2	< 10	< 0.1	< 0.2
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012															< 0.5		
9/11/2012																	
9/25/2012						< 4											
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
1/8/2013																	
1/29/2013						< 4											
2/12/2013																	
2/28/2013																	
3/12/2013																	
3/27/2013						< 60											
4/24/2013																	
5/20/2013																	
6/5/2013																	
6/18/2013						< 40											
7/2/2013																	
7/24/2013																	
8/7/2013																	
8/27/2013																	
9/5/2013																	
9/24/2013						< 20											
Count	1	1	1	1	1	5	1	1	1	1	1	1	1	1	4	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 4	< 5	< 5	< 0.2	< 0.5	< 2	< 2	< 5	< 0.2	< 0.5	< 0.1	< 0.2
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 60	< 5	< 5	< 0.2	< 0.5	< 2	< 2	< 5	< 0.2	< 10	< 0.1	< 0.2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 20	< 5	< 5	< 0.2	< 0.5	< 2	< 2	< 5	< 0.2	< 0.5	< 0.1	< 0.2
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 5		< 5	< 5	< 0.2	< 0.5	< 2	< 2	< 5	< 0.2		< 0.1	< 0.2

B 3: Colusa Effluent continued…

	Organics																
Date	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Tokuthion (Prothiofos)	Toluene	Toxaphene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichloronate	Trichlorotrifluoroethane	Trifluralin	Vinyl chloride	Xylenes, total
	µg/L																
4/16/2012	< 0.5	< 5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 1		< 0.5	< 1
5/29/2012	< 0.5	< 5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 1		< 0.5	< 1
6/4/2012																	
6/5/2012																	
6/28/2012				< 0.5	< 0.5	< 0.2	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5		< 0.2		< 0.05	< 0.5	
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012	< 0.5	< 5	< 0.5	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 0.5	< 0.5		< 1		< 0.5	< 1
9/11/2012																	
9/25/2012																	
10/9/2012																	
10/25/2012																	
11/13/2012																	
11/29/2012																	
12/11/2012																	
12/26/2012																	
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3/27/2013																	
4/24/2013																	
5/20/2013																	
6/5/2013																	
6/18/2013																	
7/2/2013																	
7/24/2013																	
8/7/2013																	
8/27/2013																	
9/5/2013																	
9/24/2013																	
Count	3	3	3	4	4	1	4	1	4	4	4	3	1	3	1	4	3
Min	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.05	< 0.5	< 1
Max	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.05	< 0.5	< 1
Median	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.05	< 0.5	< 1
Mean	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.2	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.5	< 0.2	< 1	< 0.05	< 0.5	< 1

B 4: New Ditch, upstream of effluent (520COL107)

	Field Data					Bacteria	General Chemistry							Inorganics		
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/16/2012	11.8	8.22	16.5	72.2	2450		1300				750					
5/9/2012	7.52	8.30	28.4	150.	1830											
5/29/2012	5.51	7.97	20.6	120.	864		310				320					
6/4/2012				69.4												
6/28/2012	4.98	7.66	26.0	31.3	1340		710				210					
7/10/2012	7.40	7.92	22.6	36.2	2000											
7/24/2012	6.80	7.76	22.7	63.6	1450		970				270			72	410	55.7
8/15/2012	5.66	7.57	23.2	15.2	2100	< 1.0										
8/28/2012	5.59	7.64	18.1	25.4	1300	7.4	560				270					
9/11/2012	4.93	7.61	16.6	22.3	1700	5.2										
11/13/2012	10.5	7.83	11.6	23.0	2370	38										
11/29/2012	8.94	8.11	11.7	48.6	1670		420	140			240	200	1100		371	
12/11/2012	9.52	7.80	10.0	30.6	1280	11										
12/26/2012	9.29	7.86	8.82	92.3	882		290				110			25	140	19
1/8/2013	12.5	7.80	7.82	32.3	2020	5.2										
1/29/2013	11.8	7.52	8.54	26.1	3110		1400	120	0.93	< 4.0	600	1100	2400	140	700	86
2/12/2013	3.88	7.90	6.42	408	1490	18										
2/28/2013	13.9	8.01	12.2	28.0	3470		1500	130			620	1200	2400	150	740	91
3/27/2013		7.83	11.3	87.8	2380		1900	160	1.10	< 4.0	720	1300	2600	120	490	95
5/20/2013	9.17	7.77	19.5	11.4	1220	110.	420	75	0.32		180	210	750	45	250	35
6/18/2013	8.17	8.16	18.3	31.5	2380	38	910	150	0.56	< 2.0	390	570	1600	89	490	66
7/24/2013		7.16	24.4	214	1590	26	990	67	0.46		240	340	1000	68	370	49
8/27/2013	4.50	7.89	20.5	231	682	27	1100	62	0.52		300	480	1300	67	400	56
9/24/2013		8.37	16.1	125	2140	> 2400	950	120	0.38	< 4.0	370	570	1400			
Count	20	23	23	24	23	12	15	9	7	4	15	9	9	9	10	9
Min	3.88	7.16	6.42	11.4	682	< 1.0	290	62	0.32	< 2.0	110	200	750	25	140	19
Max	13.9	8.37	28.4	408	3470	> 2400	1900	160	1.1	< 4.0	750	1300	2600	150	740	95
Median	7.85	7.83	16.6	42.4	1690	22	950	120	0.52	< 4.0	300	570	1400	72	405	56
Mean	8.12	7.85	16.6	83.1	1810	230	910	110	0.61	0.88	373	660	1600	86	440	61

B 4: New Ditch, upstream of effluent (520COL107) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	0.17	< 0.15					3900		< 10.			
5/9/2012												
5/29/2012	3.4	< 0.15					6200		< 10.			
6/4/2012												
6/28/2012	1.5						640		9.0			
7/10/2012												
7/24/2012							3100		13			
8/15/2012												
8/28/2012	0.13						670		< 10.			
9/11/2012												
11/13/2012												
11/29/2012	< 0.05											
12/11/2012												
12/26/2012	7.5											
1/8/2013												
1/29/2013	< 2.2		< 5.0		< 10.0	390	2700	< 0.5		83	< 0.5	< 0.25
2/12/2013												
2/28/2013	1.2	1.2										
3/27/2013	1.3		< 5.0		10.0	10.	2200	< 0.5		82	< 0.5	< 0.25
5/20/2013	0.83			5.8					6.7			
6/18/2013	< 2.2		< 5.0	19	< 10.0	8.1	700	< 0.5	21	74	< 0.5	< 0.25
7/24/2013	< 0.66			12					14			
8/27/2013	< 1.1			12					17			
9/24/2013	< 0.66		< 5.0	14	19.0	2.4	3600	0.6	15	87	< 0.5	< 0.25
Count	14	3	4.0	5	4	4	9	4	10	4	4	4
Min	< 0.05	< 0.15	< 5.0	5.8	< 10.0	2.4	640	< 0.5	6.7	74	< 0.5	< 0.25
Max	7.5	1.2	< 5.0	19	19.0	390	6200	0.6	21	87	< 0.5	< 0.25
Median	1.2	< 0.15	< 5.0	12	< 10.0	9.1	2700	< 0.5	12	83	< 0.5	< 0.25
Mean	1.4	0.43	< 5.0	13	8.50	100	2600	0.2	10.	82	< 0.5	0.06

B 4: New Ditch, upstream of effluent (520COL107) continued…

	Metals											
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L											
4/16/2012			4900		500							
5/9/2012												
5/29/2012			5300		290							
6/4/2012												
6/28/2012			1300		200							
7/10/2012												
7/24/2012			2700		470							
8/15/2012												
8/28/2012			560		120							
9/11/2012												
11/13/2012												
11/29/2012												
12/11/2012												
12/26/2012												
1/8/2013												
1/29/2013	6.7	6.3	3500	0.98	840	< 0.2	13	< 1.0	< 1	< 1.0		9.7
2/12/2013												
2/28/2013												
3/27/2013	5.6	8.2	2800	1.2	910	< 0.2	12	< 1.0	< 1	< 1.0		7.3
5/20/2013												
6/18/2013	2.0	8.0	950	0.32	340	< 0.2	7.8	< 1.0	< 1	< 1.0		< 5.0
7/24/2013												
8/27/2013												
9/24/2013	9.4	11	5500	3.3	580	< 0.4	16	< 1.0	< 0.3	< 1.0		16
Count	4	4	9	4	9	4	4	4	4	4		4
Min	2	6.3	560	0.32	120	< 0.2	7.8	< 1.0	< 0.3	< 1.0		< 5.0
Max	9.4	11	5500	3.3	910	< 0.4	16	< 1.0	< 1	< 1.0		16
Median	6.2	8.1	2800	1.1	470	< 0.2	13	< 1.0	< 1	< 1.0		8.5
Mean	5.9	8.4	3000	1.5	470	0.1	12	< 1.0	0.2	< 1.0		8.6

B 4: New Ditch, upstream of effluent (520COL107) continued…

	Organics														
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012															
6/28/2012															
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/27/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 4: New Ditch, upstream of effluent (520COL107) continued…

	Organics													
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5		
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 1.5	< 5
6/4/2012															
6/28/2012															
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5		
9/11/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/27/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 1.5	< 5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 1.5	< 5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 1.5	< 5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 1.5	< 5

B 4: New Ditch, upstream of effluent (520COL107) continued…

	Organics															
Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/28/2012											< 0.5					
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/27/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	3	3	3	3	3	3	3	4	3	3	3	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 4: New Ditch, upstream of effluent (520COL107) continued…

	Organics															
Date	Dichlorodifluoromethane	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/16/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/28/2012											< 0.1					
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/27/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	3	3	2	3	3	3	3	4	3	3	3	3	3
Min	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5

B 4: New Ditch, upstream of effluent (520COL107) continued…

	Organics															
Date	o-Xylene	Percholate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/16/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/29/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/4/2012																
6/28/2012																
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 4														
2/12/2013																
2/28/2013																
3/27/2013		< 4														
5/20/2013																
6/18/2013		< 2														
7/24/2013																
8/27/2013																
9/24/2013		< 4														
Count	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 4	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

B 5: Powell Slough at Hwy 20 (520COL005)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/16/2012	4.91	7.95	14.9	26.7	1800		500				430					
5/9/2012	3.66	7.71	21.5	58.5	740											
5/22/2012	4.27	7.47	22.8	15.9	690											
5/29/2012	3.92	7.46	19.6	8.30	640		300				170					
6/5/2012	3.47	7.53	19.3	6.00	860											
6/28/2012	3.16	7.62	23.0	4.12	1100		600				140					
7/24/2012	1.93	7.33	24.8	5.90	840		400				98			46	260	35.3
8/15/2012	1.32	7.45	24.5	10.1	730	47.1										
8/28/2012	2.74	7.60	20.6	16.4	820	167	300				85					
9/11/2012	4.79	7.65	20.3	27.5	790	24.6										
9/25/2012	5.32	7.72	17.4	56.0	830	93.4	300	28	0.45	< 4.0	89	69	470			
10/9/2012	1.76	7.53	15.5	49.4	1400	166										
10/25/2012	6.23	7.48	12.8	26.0	680			26			67	89	430	44	240	31
11/13/2012	7.89	7.42	10.6	11.6	650	57.6										
11/29/2012	6.12	7.46	11.9	29.9	600		200	22			55	66	420		189	
12/11/2012	5.79	7.35	10.6	36.2	600	28.8										
12/26/2012	8.17	7.72	8.10	110	480		200				48			26	150	19
1/8/2013	10.30	7.72	7.56	36.2	550											
1/29/2013	6.87	7.73	9.03	25.5	1200		300	40.	0.53	< 2.0	150	240	720	53	310	44
2/12/2013	8.17	7.86	8.83	50.5	980	33.6										
2/28/2013	5.58	7.57	12.1	62.6	2100		500	66			280	630	1400	100	570	78
3/12/2013	7.72	7.87	13.0	41.7	1200	135										
3/27/2013	4.23	7.92	14.5	61.5	1400		300	87	0.34	< 2.0	160	290	900	66	420	61
4/24/2013	5.16	7.87	10.6	96.6	550	186	300	19	0.35		62	82	330	32	170	23
5/20/2013	4.96	7.81	19.4	20.0	840	185	400	28	0.71		110	170	550	38	230	32
6/18/2013	2.25	7.50	21.2	22.4	840	35.0	400	18	0.76	< 2.0	100	98	510	38	220	31
7/24/2013		7.86	24.1	28.8	730	25.6	400	13	0.39		75	45	420	46	260	34
8/27/2013	1.99	7.37	21.0	18.3	700	116	300	19	0.32		72	37	390	60	350	50
9/24/2013		7.83	19.6	68.7	1000	192	300	45	0.43	< 2.0	120	140	640			
Count	27	29	29	29	29	15	17	12	9	5	18	12	12	11	12	11
Min	1.32	7.33	7.56	4.1	480	24.6	200	13	0.32	< 2.0	48	37	330	26	150	19
Max	10.3	7.95	24.8	111	2100	192	600	87	0.76	< 4.0	430	630	1400	100	570	78
Median	4.91	7.62	17.4	27.5	820	93.4	300	27	0.43	< 2.0	99	94	490	46	250	34
Mean	4.91	7.63	16.5	35.6	910	99.5	300	34	0.48	0.6	130	160	600	50	280	40

B 5: Powell Slough at Hwy 20 (520COL005) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	< 0.1	< 0.15					600		< 10.			
5/9/2012												
5/22/2012												
5/29/2012	< 0.1	< 0.15					480		< 10.			
6/5/2012												
6/28/2012	< 0.1						120		6.8			
7/24/2012							200		< 10.			
8/15/2012												
8/28/2012	0.2						580		< 10.			
9/11/2012												
9/25/2012	< 0.1		< 50.		30.4	71	4800	< 5	9.3	110	< 1	< 1.0
10/9/2012												
10/25/2012	0.3											
11/13/2012												
11/29/2012	0.06											
12/11/2012												
12/26/2012	0.4											
1/8/2013												
1/29/2013	< 0.4		< 5.0		13.0	< 1.0	920	< 0.5		76	< 0.5	< 0.25
2/12/2013												
2/28/2013	0.7											
3/12/2013												
3/27/2013	0.5		< 5.0		10.0	650	1700	< 0.5		120	< 0.5	< 0.25
4/24/2013	< 0.2			5.1					6.6			
5/20/2013	0.2			5.0					6.1			
6/18/2013	< 0.2		< 5.0	9.4	20.0	14	2100	< 0.5	12	93	< 0.5	< 0.25
7/24/2013	< 0.4			8.0					8.2			
8/27/2013	< 0.2			7.2					7.3			
9/24/2013	< 0.4		< 5.0	10	17.0	7.7	2700	< 0.5	12	120	< 0.5	< 0.25
Count	17	2	5.0	6	5	5	10	5	12	5	5	5
Min	0.06	< 0.15	< 5.0	5.0	10.0	< 1.0	120	< 0.5	6.1	76	< 0.5	< 0.25
Max	0.7	< 0.15	< 50.	12	30.4	650	4800	< 5	12	120	< 1	< 1.0
Median	< 0.2	< 0.15	< 5.0	7.6	17.0	14.0	760	< 0.5	< 9.7	110	< 0.5	< 0.25
Mean	0.2	< 0.15	3.5	7.8	18.1	150	1400	0.4	6.5	100	0.2	0.10

B 5: Powell Slough at Hwy 20 (520COL005) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/16/2012			1000		2100								
5/9/2012													
5/22/2012													
5/29/2012			530		91								
6/5/2012													
6/28/2012			370		98								
7/24/2012			390		240								
8/15/2012													
8/28/2012			700		130								
9/11/2012													
9/25/2012	13	11	7400	1.8	560	< 0.2	< 5.0	20.	< 20.	< 5	< 1.0	19.0	19
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	2.4	4.1	1400	0.62	360	< 0.2		6.7	< 1.0	< 1	< 1.0		< 5.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	4.9	5.3	2500	1.2	1100	< 0.2		8.3	< 1.0	< 1	< 1.0		8.4
4/24/2013													
5/20/2013													
6/18/2013	5.4	7.3	3200	0.97	460	< 0.2		12	< 1.0	< 1	< 1.0		8.4
7/24/2013													
8/27/2013													
9/24/2013	7.2	6.6	3900	1.5	350	< 0.4		11	< 1.0	< 0.3	< 1.0		11
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	2.4	4.1	370	0.62	91	< 0.2	< 5.0	6.7	< 1.0	< 0.3	< 1.0	19.0	< 5.0
Max	13	11	7400	1.8	2100	< 0.4	< 5.0	20.	< 20.	< 5	< 1.0	19.0	19
Median	5.4	6.6	1200	1.2	360	< 0.2	< 5.0	11	< 1.0	< 1	< 1.0	19.0	8.4
Mean	6.6	6.9	2100	1.2	550	0.1	< 5.0	12	1.2	0.4	< 1.0	19.0	9.6

B 5: Powell Slough at Hwy 20 (520COL005) continued…

	Organics															
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	3	3	4	4	3	3	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

B 5: Powell Slough at Hwy 20 (520COL005) continued…

	Organics														
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5		
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5		
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5		< 0.5									< 10	< 5
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5		
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/18/2013															
7/24/2013															
8/27/2013															
9/24/2013															
Count	4	4	4	3	4	3	3	3	3	3	3	3	3	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5

B 5: Powell Slough at Hwy 20 (520COL005) continued…

	Organics															
Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	4	3	3	4	4	3	3	4	4	4	4	3	4	4	4	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 5: Powell Slough at Hwy 20 (520COL005) continued…

Date	Organics															
	Dichlorodifluoromethane	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/16/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
6/5/2012																
6/28/2012					< 0.5		< 0.5		< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	114	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/18/2013																
7/24/2013																
8/27/2013																
9/24/2013																
Count	3	3	3	3	4	2	4	3	4	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	114	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	41.3	< 0.5	< 0.5	< 50	< 0.5	< 0.5	< 0.5		< 0.1			< 0.5	< 0.5	< 0.5

B 5: Powell Slough at Hwy 20 (520COL005) continued…

	Organics																
Date	o-Xylene	Percholate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/16/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/29/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/5/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 2														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/24/2013																
5/20/2013																
6/18/2013		< 2														
7/24/2013																
8/27/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

B 6: Powell Slough, downstream of effluent (520COL102)

	Field Data					Bacteria	General Chemistry							Inorganics		
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/16/2012	18.9	8.90	22.6	45.9	1640		480				390					
5/9/2012	13.2	8.65	34.6	24.5	1230											
5/29/2012	9.05	8.34	17.2	33.0	968		420				320					
6/4/2012		8.30	23.6	35.4	1160											
6/28/2012	8.53	7.87	27.4	52.2	1370		730				200					
7/10/2012	6.80	7.63	24.3	35.7	1150											
7/24/2012	7.05	7.63	24.9	32.2	891		430				110			46	260	35.6
8/15/2012	5.94	7.66	25.5	46.8	786	26.2										
8/28/2012	8.36	7.90	20.9	46.2	801	53.9	290				83					
9/11/2012	6.57	7.80	20.1	42.1	952	39.3										
9/25/2012	8.68	8.00	20.5	53.4	788	46.4	290	34	0.46	< 4.0	95	50	440	36	210	29
10/9/2012	12.6	8.26	16.5	47.2	633	32.7										
10/25/2012	10.7	7.94	14.0	26.8	753			35			82	90	480	43	230	31
11/13/2012	10.4	7.63	11.5	25.1	820	31.8										
11/29/2012	7.41	7.78	12.1	37.2	678		220	28			73	90	490		201	
12/11/2012	6.75	7.40	10.7	27.7	500	58.8										
12/26/2012	8.99	7.60	8.14	172	399		140				39			24	130	17
1/8/2013	11.4	7.77	7.92	26.2	810	26.9										
1/29/2013	9.48	7.88	7.18	22.3	1330		360	47	2.7	< 2.0	170	300	780	56	330	74
2/12/2013	12.6	8.02	7.78	71.9	386	34.1										
2/28/2013		7.70	15.3	23.6	1190		570	92			310	600	1400	87	550	81
3/12/2013	12.2	8.12	10.8	63.5	1520	435										
3/27/2013	9.14	7.98	12.3	96.2	1390		380	94	0.42	< 2.0	180	300	960	61	380	56
4/24/2013	6.67	8.35	16.3	38.8	1400	43.2	480	89	0.52		200	300	910	55	330	47
5/20/2013	9.78	8.11	17.8	34.3	1100	109	450	46	0.68		150	200	640	35	220	33
6/6/2013	6.31	7.90	22.3		1080											
6/18/2013	8.01	7.77	22.6	23.4	916	10.8	420	28	0.72	< 2.0	110	100	540	39	220	31
7/2/2013	6.05	7.60	29.8		811											
7/24/2013		7.09	26.1	36.1	719	12.1	410	15	0.39		77	60	440	42	240	32
8/9/2013	5.82	7.60	25.1		698											
8/27/2013	5.72	7.56	22.2	65.9	734	38.4	320	21	0.33		82	40	420	40	230	32
9/5/2013	7.41	7.90	25.1		755											
9/24/2013		8.31	20.0	66.0	923	> 2420	360	44	0.35	< 2.0	120	90	530			
Count	29	33	33	29	33	16	17	12	9	5	18	12	12	12	13	12
Min	5.72	7.09	7.18	22.3	386	10.8	140	15	0.33	< 2.0	39	40	420	24	130	17
Max	18.9	8.90	34.6	172	1640	> 2420	730	94	2.7	< 4.0	390	600	1400	87	550	81
Median	8.53	7.88	20.1	37.2	891	38.9	410	40.	0.46	< 2.0	120	100	540	43	230	33
Mean	8.99	7.91	18.9	46.6	947	213.6	400	48	0.73	0.60	160	200	670	47	270	42

B 6: Powell Slough, downstream of effluent (520COL102) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	6.8	< 0.15					1200		< 10.			
5/9/2012												
5/29/2012	2.8	< 0.15					1300		< 10.			
6/4/2012												
6/28/2012	2.1						790		9.7			
7/10/2012												
7/24/2012							360		< 10.			
8/15/2012												
8/28/2012	0.53						750		< 10.			
9/11/2012												
9/25/2012	6.6		< 50.		177	< 10.	1100	< 5	6.9	63	< 1	< 1.0
10/9/2012												
10/25/2012	2.4											
11/13/2012												
11/29/2012	0.66											
12/11/2012												
12/26/2012	0.55											
1/8/2013												
1/29/2013	0.71		< 5.0		13.0	< 1.0	820	< 0.5		75	< 0.5	< 0.25
2/12/2013												
2/28/2013	0.56											
3/12/2013												
3/27/2013	2.7		< 5.0		< 10.0	150	4800	< 0.5		120	< 0.5	< 0.25
4/24/2013	5.3			9.3					9.7			
5/20/2013	0.55			4.2					4.8			
6/6/2013												
6/18/2013	1.4		< 5.0	9.5	16.0	1.2	770	< 0.5	11	74	< 0.5	< 0.25
7/2/2013												
7/24/2013	0.72			8.2					9.0			
8/9/2013				3.0								
8/27/2013	< 0.44			6.9					10.			
9/5/2013												
9/24/2013	6.5		< 5.0	8.1	16.0	< 1.0	1600	< 0.5	8.1	78	< 0.5	< 0.25
Count	17	2	5.0	7	5	5	10	5	12	5	5	5
Min	< 0.44	< 0.15	< 5.0	3.0	< 10.0	< 1.0	360	< 0.5	4.8	63	< 0.5	< 0.25
Max	6.8	< 0.15	< 50.	9.5	177	150	4800	< 5	11.0	120	< 1	< 1.0
Median	1.4	< 0.15	< 5.0	8.1	16.0	1.2	960	< 0.5	9.9	75	< 0.5	< 0.25
Mean	2.4	< 0.15	3.5	7.0	44.8	31	1300	0.4	6.6	82	0.2	0.10

B 6: Powell Slough, downstream of effluent (520COL102) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/16/2012			1600		770								
5/9/2012													
5/29/2012			1500		150								
6/4/2012													
6/28/2012			1500		350								
7/10/2012													
7/24/2012			580		260								
8/15/2012													
8/28/2012			790		140								
9/11/2012													
9/25/2012	< 5.0	< 5.0	1700	< 1.0	130	< 0.2	< 5.0	6.7	< 20.	< 5	< 1.0	< 10.0	9.7
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	2.1	3.7	1300	0.54	340	< 0.2		6.4	< 1.0	< 1	< 1.0		< 5.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	11	10	6700	2.4	810	< 0.2		15	< 1.0	< 1	< 1.0		19
4/24/2013													
5/20/2013													
6/6/2013													
6/18/2013	2.1	5.1	1200	0.45	260	< 0.2		7.3	< 1.0	< 1	< 1.0		6.3
7/2/2013													
7/24/2013													
8/9/2013													
8/27/2013													
9/5/2013													
9/24/2013	4.4	5.2	2100	1.2	230	< 0.4		7.6	< 1.0	< 0.3	< 1.0		11
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	2.1	3.7	580	0.45	130	< 0.2	< 5.0	6.4	< 1.0	< 0.3	< 1.0	< 10.0	< 5.0
Max	11	10.	6700	2.4	810	< 0.4	< 5.0	15	< 20.	< 5	< 1.0	< 10.0	19
Median	4.4	5.1	1500	< 1.0	260	< 0.2	< 5.0	7.3	< 1.0	< 1	< 1.0	< 10.0	9.7
Mean	4.2	5.1	1900	1.0	340	0.1	< 5.0	8.6	1.2	0.4	< 1.0	< 10.0	9.5

B 6: Powell Slough, downstream of effluent (520COL102) continued…

	Organics																													
	1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane (TCA)		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,1-Dichloropropene		1,2,3-Trichlorobenzene		1,2,3-Trichloropropane (123TCP)		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-chloropropane (DBCP)		1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane (1,2-DCA)	
Date	µg/L																													
4/16/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
5/29/2012	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
6/4/2012																														
6/28/2012	<	0.5	<	0.5					<	0.5	<	0.5					<	0.5	<	0.5	<	0.5	<	10	<	5	<	0.5	<	2
7/10/2012																														
7/24/2012																														
8/15/2012																														
8/28/2012																														
9/11/2012																														
9/25/2012																														
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7/2/2013																														
7/24/2013																														
8/9/2013																														
8/27/2013																														
9/5/2013																														
9/24/2013																														
Count		3		3		2		2		3		3		2		2		3		3		3		3		3		3		3
Min	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Max	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	10	<	5	<	0.5	<	2
Median	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5
Mean	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5	<	0.5					<	0.5		

B 6: Powell Slough, downstream of effluent (520COL102) continued…

	Organics															
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
6/4/2012																
6/28/2012	< 0.5	< 0.5	< 0.5		< 0.5									< 10	< 5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012																
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
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1/8/2013																
1/29/2013																
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2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	3	3	3	2	3	2	2	2	2	2	2	2	2	1	1	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5

B 6: Powell Slough, downstream of effluent (520COL102) continued…

	Organics															
Date	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/28/2012			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012			< 0.5	< 0.5						< 0.5				< 0.5		
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	2	2	4	4	2	2	3	3	3	4	2	3	3	4	2	2
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 6: Powell Slough, downstream of effluent (520COL102) continued…

	Organics															
Date	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/16/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012											< 0.1					
9/11/2012																
9/25/2012							< 10									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	2	2	2	3	2	3	1	2	3	3	4	3	3	3	3	3
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5		< 0.1			< 0.5	< 0.5	< 0.5

B 6: Powell Slough, downstream of effluent (520COL102) continued…

Date	Organics															
	o-Xylene	Percholate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/16/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/29/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/4/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012																
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 2														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013		< 2														
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013		< 2														
Count	3	5	3	2	2	2	3	3	3	3	3	3	2	2	3	2
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

B 7: Powell Slough, upstream of effluent (520COL003)

	Field Data					Bacteria	General Chemistry							Inorganics		
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/16/2012	14.2	8.37	18.2	29.0	1200		510				450					
5/9/2012	6.76	8.66	23.1	53.1	1900											
5/29/2012	5.69	7.92	19.8	70.8	690		300				190					
6/4/2012	8.43		22.8	14.1	720											
6/7/2012		8.20														
6/28/2012	10.1	7.98	22.6	37.0	1100		600				160					
7/10/2012	5.57	7.66	26.0	31.7	890											
7/24/2012	6.35	7.65	26.1	23.6	850		410				96			45.6	260	35.2
8/15/2012	6.47	7.73	25.8	34.7	730	31.5										
8/28/2012	7.50	7.87	21.6	86.3	730	52.1	270				75					
9/11/2012	6.10	7.85	20.8	24.6	810	24.1										
9/25/2012	6.97	8.03	21.1	43.9	700	40.2	240	20	0.43	< 4.0	75	45	410	44	250	35
10/9/2012	10.8	7.14	14.8	22.7	880	12.2										
10/25/2012	9.26	7.93	14.2	31.6	720			30			75	94	460	47	260	34
11/13/2012	7.33	7.74	11.6	25.3	720	24.3										
11/29/2012	9.07	7.79	11.9	21.4	650		210	20			65	83	450		197	
12/11/2012	6.79	7.49	10.9	20.3	540	48.7										
12/26/2012	8.23	7.68	8.3	168	400		130				38			23	130	17
1/8/2013	10.2	7.82	7.84	25.8	780	37.9										
1/29/2013	11.4	7.90	7.38	31.2	1200		340	50	0.54	< 8.0	170	270	790	56	330	47
2/12/2013	8.23	8.01	8.64	111	980	40.2										
2/28/2013	18.4	8.37	14.7	53.0	2000		520	90			290	570	1300	86	540	80
3/12/2013	12.4	8.13	11.4	84.5	1400	461										
3/27/2013	8.73	7.91	12.2	94.4	1600		360	100	0.39	< 2.0	180	360	1000	73	460	68
4/24/2013	8.36	8.36	10.9	30.5	1500	31.8	450	80	0.49		200	330	940	66	400	57
5/20/2013	7.65	7.72	20.8	38.3	840	35.0	430	30	0.65		110	160	520	38	220	31
6/6/2013	5.53	7.90	22.7		900											
6/18/2013	5.23	7.69	22.2	28.6	810	6.3	380	20	0.73	< 2.0	99	97	480	36	210	29
7/2/2013	7.96	8.00	30.5		760											
7/24/2013		7.05	25.7	31.1	680	38.8	380	10	0.36		67	46	390			
8/9/2013	5.86	7.80	27.4		660											
8/27/2013	5.73	7.71	22.7	45.9	760	27.5	340	20	0.33		83	42	460	47	270	38
9/5/2013	7.29	7.90	25.1		710											
9/24/2013		8.21	19.5	57.8	900	57.6	320	30	0.37	< 2.0	110	97	520			
Count	31	33	33	29	33	16	17	12	9	5	18	12	12	11	12	11
Min	5.23	7.05	7.4	14.1	400	6.3	130	10	0.33	< 2.0	38	42	390	23	130	17
Max	18.4	8.66	30.5	168	2000	461	600	100	0.73	< 8.0	450	570	1300	86	540	80
Median	7.65	7.90	20.8	31.7	810	36.5	360	30	0.43	< 2.0	110	97	500	47	260	35
Mean	8.34	7.88	18.5	47.2	930	60.6	360	40	0.48	0.90	140	180	640	51	290	43

B 7: Powell Slough, upstream of effluent (520COL003) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	0.2	< 0.15					1100		< 10.			
5/9/2012												
5/29/2012	0.2	< 0.15					3800		< 10.			
6/4/2012												
6/7/2012												
6/28/2012	< 0.1						620		9.6			
7/10/2012												
7/24/2012							360		< 10.			
8/15/2012												
8/28/2012	0.2						840		< 10.			
9/11/2012												
9/25/2012	< 0.1		< 50.		25.1	< 10.	1600	< 5	7.2	77	< 1	< 1.0
10/9/2012												
10/25/2012	0.3											
11/13/2012												
11/29/2012	< 0.05											
12/11/2012												
12/26/2012	0.5											
1/8/2013												
1/29/2013	< 0.7		< 5.0		11.0	< 1.0	1000	< 0.5		82	< 0.5	< 0.25
2/12/2013												
2/28/2013	< 1											
3/12/2013												
3/27/2013	< 0.7		< 5.0		< 10.0	190	2700	< 0.5		130	< 0.5	< 0.25
4/24/2013	0.3			10					11			
5/20/2013	< 0.2			6					6.4			
6/6/2013												
6/18/2013	< 0.4		< 5.0	10	13.0	1.6	920	< 0.5	12	80.	< 0.5	< 0.25
7/2/2013												
7/24/2013	< 0.2			7					8.0			
8/9/2013												
8/27/2013	< 0.4			7					10.			
9/5/2013												
9/24/2013	0.5		< 5.0	10	15.0	< 1.0	1400	< 0.5	9.1	83	< 0.5	< 0.25
Count	17	2	5.0	6	5	5	10	5	12	5	5	5
Min	< 0.05	< 0.15	< 5.0	6	< 10.0	< 1.0	350	< 0.5	6.4	77	< 0.5	< 0.25
Max	< 1	< 0.15	< 50.	10	25.1	190	3800	< 5	12	130	< 1	< 1.0
Median	0.3	< 0.15	< 5.0	8	13.0	1.6	1000	< 0.5	< 10.	82	< 0.5	< 0.25
Mean	0.2	< 0.15	3.5	9	13.3	39	1400	0.4	6.9	90.	0.2	0.10

B 7: Powell Slough, upstream of effluent (520COL003) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/16/2012			1400		1100								
5/9/2012													
5/29/2012			4000		410								
6/4/2012													
6/7/2012													
6/28/2012			1300		430								
7/10/2012													
7/24/2012			570		290								
8/15/2012													
8/28/2012			890		140								
9/11/2012													
9/25/2012	< 5.0	< 5.0	2300	< 1.0	180	< 0.2	< 5.0	8.5	< 20.	< 5	< 1.0	11.0	6.1
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	2.8	4.0	1700	0.56	420	< 0.2		7.2	< 1.0	< 1	< 1.0		< 5.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	7.6	7.8	4700	1.7	890	< 0.2		11	< 1.0	< 1	< 1.0		11
4/24/2013													
5/20/2013													
6/6/2013													
6/18/2013	2.5	4.4	1500	0.59	390	< 0.2		8.0	< 1.0	< 1	< 1.0		< 5.0
7/2/2013													
7/24/2013													
8/9/2013													
8/27/2013													
9/5/2013													
9/24/2013	3.8	3.8	1900	1.2	270	< 0.4		6.9	< 1.0	< 0.3	< 1.0		5.6
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	2.5	3.8	570	0.56	140	< 0.2	< 5.0	6.9	< 1.0	< 0.3	< 1.0	11.0	< 5.0
Max	7.6	7.8	4700	1.7	1100	< 0.4	< 5.0	11	< 20.	< 5	< 1.0	11.0	11
Median	3.8	4.4	1600	< 1.0	400	< 0.2	< 5.0	8.0	< 1.0	< 1	< 1.0	11.0	5.6
Mean	3.6	4.3	2000	0.9	450	0.1	< 5.0	8.3	4.2	0.4	< 1.0	11.0	5.0

B 7: Powell Slough, upstream of effluent (520COL003) continued…

	Organics															
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012															
6/7/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/12/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/6/2013															
6/18/2013															
7/2/2013															
7/24/2013															
8/9/2013															
8/27/2013															
9/5/2013															
9/24/2013															
Count	4	4	3	3	4	4	3	3	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

B 7: Powell Slough, upstream of effluent (520COL003) continued…

	Organics															
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
6/4/2012																
6/7/2012																
6/28/2012	< 0.5	< 0.5	< 0.5		< 0.5									< 10	< 5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	4	4	4	3	4	3	3	3	3	3	3	3	3	1	1	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5

B 7: Powell Slough, upstream of effluent (520COL003) continued…

	Organics															
Date	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/7/2012																
6/28/2012			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
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4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	3	3	4	4	3	3	4	4	4	4	3	4	4	4	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 7: Powell Slough, upstream of effluent (520COL003) continued…

	Organics															
Date	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/16/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/7/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012							< 10									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	3	3	3	4	2	4	1	3	4	4	4	4	4	4	4	4
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5		< 0.1	< 4		< 0.5	< 0.5	< 0.5

B 7: Powell Slough, upstream of effluent (520COL003) continued…

	Organics															
Date	o-Xylene	Percholate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/16/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/29/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/4/2012																
6/7/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 8														
2/12/2013																
2/28/2013																
3/12/2013																
3/27/2013		< 2														
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013		< 2														
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013		< 2														
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 8	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

B 8: Unnamed Tributary, downstream of effluent (520COL105)

	Field Data					Bacteria	General Chemistry							Inorganics		
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/16/2012	7.94	7.96	18.8	22	898		380				170					
5/9/2012	12.6	8.43	26.6	9.4	972											
5/29/2012	8.01	8.10	21.7	59	864		330				310					
6/4/2012	7.21			31	1240											
6/7/2012		8.30	23.4													
6/28/2012	4.59	7.64	26.5	22	1320		730				210					
7/10/2012	5.78	7.54	23.9	32	1110											
7/24/2012	5.54	7.46	24.0	9.2	1020		520				150			39	230	31.7
8/15/2012	5.45	7.54	24.3	50	1050	15										
8/28/2012	5.67	7.59	18.9	39	978	38	380				130					
9/11/2012	5.49	7.72	17.3	55	1	18										
9/25/2012	7.74	7.93	22.8	79	1310	4.1	400	66	0.55	< 4.0	150	40.	500	14	78	10
10/9/2012	8.47	7.45	21.0	20	810	8.5										
10/25/2012	9.01		16.4	16	745			67			140	35	540	15	69	7.6
11/13/2012	8.85	7.93	13.7	20.	2080	59										
11/29/2012	6.23	7.69	12.6	43	856		290	57			120	120	580		185	
12/11/2012	8.04	7.53	10.9	41	848	51										
12/26/2012	8.57	7.67	9.4	130	701		260				98			23	130	18
1/8/2013	11.1	7.81	9.9	29	640	18										
1/29/2013	11.0	7.87	11.0	9.5	998		560	72	0.64	< 4.0	210	230	860	41	230	31
2/12/2013	9.58	7.85	6.0	66	957	40										
2/28/2013	4.11	7.91	12.1	27	2480		850	110			440	740	1700	79	480	68
3/27/2013	8.29	7.83	15.0	29	918		430	71	0.57	< 20.	140	51	560	18	91	12
4/24/2013	7.76	8.09	17.8	24	1060	86	530	95	0.61		180	66	660	22	110	13
5/20/2013	10.9	8.13	19.7	7.5	1050	57	440	64	0.59		170	190	700	33	210	30
6/6/2013	6.51	8.10	21.9		1540											
6/18/2013	7.23	7.63	22.0	5.0	1020	5.2	510	55	0.75	< 40.	160	130	700	40	220	30
7/2/2013	3.70	7.20	29.0		917											
7/24/2013		7.06	24.2	48	832	9.6	480	26	0.44		100	58	520	41	230	31
8/9/2013	5.58	7.50	21.6		823											
8/27/2013	5.90	7.65	20.9	26	1020	8.5	510	53	0.39		150	94	630	20	110	14
9/5/2013	6.09	7.80	22.5		1110											
9/24/2013		7.94	21.8	33	767	> 2400	420		0.28	< 20.	140	50.	550			
9/27/2013								75								
Count	30	31	32	28	32	15	17	12	9	5	18	12	12	12	13	12
Min	3.70	7.06	5.99	5.0	640	4.1	260	26	0.28	< 4.0	98	35	500	14	69	7.6
Max	12.6	8.43	29.0	130	2480	> 2400	850	110	0.75	< 40.	440	740	1700	79	480	68
Median	7.49	7.80	20.9	29	975	18	440	67	0.57	< 20.	150	80.	610	28	185	24
Mean	7.43	7.77	19.0	35	1060	190	470	68	0.54	4.4	180	150	710	32	180	25

B 8: Unnamed Tributary, downstream of effluent (520COL105) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	17	< 0.15					810		< 10.			
5/9/2012												
5/29/2012	1.8	< 0.15					3100		< 10.			
6/4/2012												
6/7/2012												
6/28/2012	2.3						500		9.1			
7/10/2012												
7/24/2012							190		< 10.			
8/15/2012												
8/28/2012	3.8						780		10.			
9/11/2012												
9/25/2012	24		< 50.		92.2	22	520	< 5.0	4.9	34	< 1	< 1.0
10/9/2012												
10/25/2012	26											
11/13/2012												
11/29/2012	3.1											
12/11/2012												
12/26/2012	6.2											
1/8/2013												
1/29/2013	16		6.2		30.0	180	300	< 0.5		58	< 0.5	< 0.25
2/12/2013												
2/28/2013	5.0											
3/27/2013	25		< 5.0		< 10.0	120	650	< 0.5		41	< 0.5	< 0.25
4/24/2013	24			3.3					3.6			
5/20/2013	5.0			4.1					4.8			
6/6/2013												
6/18/2013	12		5.8	7.3	32.0	23	190	< 0.5	8.8	60.	< 0.5	< 0.25
7/2/2013												
7/24/2013	3.6			11					13			
8/9/2013												
8/27/2013	11			9.2					13			
9/5/2013												
9/24/2013	27		9.3	3.6	29.0	1.4	990	< 0.5	3.6	51	< 0.5	< 0.25
9/27/2013												
Count	17	2	5.0	6	5	5	10	5	12	5	5	5
Min	1.8	< 0.15	< 5.0	3.3	< 10.0	1.4	190	< 0.5	3.6	34	< 0.5	< 0.25
Max	27	< 0.15	< 50.	11	92.2	180	3100	< 5.0	13	60.	< 1	< 1.0
Median	11	< 0.15	6.2	5.7	30.0	23	590	< 0.5	9.6	51	< 0.5	< 0.25
Mean	12.5	< 0.15	7.0	6.4	37.1	69	800	0.4	6.6	49	0.2	0.10

B 8: Unnamed Tributary, downstream of effluent (520COL105) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/16/2012			1200		190								
5/9/2012													
5/29/2012			2800		200								
6/4/2012													
6/7/2012													
6/28/2012			1000		180								
7/10/2012													
7/24/2012			260		130								
8/15/2012													
8/28/2012			840		170								
9/11/2012													
9/25/2012	< 5.0	< 5.0	690	< 1.0	35	< 0.2	< 5.0	< 5.0	< 20.	< 5	< 1.0	< 10.0	27
10/9/2012													
10/25/2012													
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	0.99	3.9	590	0.31	310	< 0.2		4.2	< 1.0	< 1	< 1.0		20.
2/12/2013													
2/28/2013													
3/27/2013	2.1	4.5	1000	0.58	170	< 0.2		3.7	< 1.0	< 1	< 1.0		29
4/24/2013													
5/20/2013													
6/6/2013													
6/18/2013	0.61	6.7	340	0.15	83	< 0.2		6.0	< 1.0	< 1	< 1.0		15
7/2/2013													
7/24/2013													
8/9/2013													
8/27/2013													
9/5/2013													
9/24/2013	2.8	6.7	1300	0.78	87	< 0.4		5.6	< 1.0	< 0.3	< 1.0		28
9/27/2013													
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	0.61	3.9	260	0.15	35	< 0.2	< 5.0	3.7	< 1.0	< 0.3	< 1.0	< 10.0	15
Max	< 5.0	6.7	2800	< 1.0	310	< 0.4	< 5.0	6.0	< 20.	< 5	< 1.0	< 10.0	29
Median	2.1	5.0	920	0.58	170	< 0.2	< 5.0	< 5.0	< 1.0	< 1	< 1.0	< 10.0	27
Mean	1.6	4.6	1000	0.41	160	0.1	< 5.0	4.2	4.2	0.4	< 1.0	< 10.0	24

B 8: Unnamed Tributary, downstream of effluent (520COL105) continued…

	Organics															
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012															
6/7/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012															
9/25/2012															
10/9/2012															
10/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/27/2013															
4/24/2013															
5/20/2013															
6/6/2013															
6/18/2013															
7/2/2013															
7/24/2013															
8/9/2013															
8/27/2013															
9/5/2013															
9/24/2013															
9/27/2013															
Count	4	4	3	3	4	4	3	3	4	4	4	4	4	4	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

B 8: Unnamed Tributary, downstream of effluent (520COL105) continued…

	Organics															
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
6/4/2012																
6/7/2012																
6/28/2012	< 0.5	< 0.5	< 0.5		< 0.5									< 10	< 5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
9/27/2013																
Count	4	4	4	3	4	3	3	3	3	3	3	3	3	1	1	4
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5

B 8: Unnamed Tributary, downstream of effluent (520COL105) continued…

	Organics															
Date	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/7/2012																
6/28/2012			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
9/27/2013																
Count	3	3	4	4	3	3	4	4	4	4	3	4	4	4	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 8: Unnamed Tributary, downstream of effluent (520COL105) continued…

	Organics															
Date	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/16/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
6/4/2012																
6/7/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012							< 10									
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/27/2013																
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
9/27/2013																
Count	3	3	3	4	1	4	1	3	4	4	4	4	4	4	4	4
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5		< 0.1	< 4		< 0.5	< 0.5	< 0.5

B 8: Unnamed Tributary, downstream of effluent (520COL105) continued…

	Organics															
Date	o-Xylene	Percholate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/16/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/29/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
6/4/2012																
6/7/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
9/25/2012		< 4														
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 4														
2/12/2013																
2/28/2013																
3/27/2013		< 20														
4/24/2013																
5/20/2013																
6/6/2013																
6/18/2013		< 40														
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013		< 20														
9/27/2013																
Count	4	5	4	3	3	3	4	4	4	4	4	4	3	3	4	3
Min	< 0.5	< 4	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 40	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 20	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1

B 9: Unnamed Tributary, Upstream of effluent (520COL106)

	Field Data					Bacteria	General Chemistry							Inorganics		
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids	Total Calcium	Total Hardness	Total Magnesium
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L								
4/16/2012	3.18	8.63	15.8	220	111		250				110					
5/9/2012	7.74	8.10	24.1	110	750											
5/29/2012	4.45	7.72	20.4	170	930		280				310					
6/4/2012	6.89			38	1260											
6/7/2012		8.40	23.4													
6/28/2012	3.82	7.53	26.0	24	1320		720				200					
7/10/2012	4.05	7.37	24.7	7.1	1140											
7/24/2012	6.84	7.38	23.7	13	1030		510				130			48	280	38.8
8/15/2012	7.34	7.52	23.3	13	885	70.3										
8/28/2012	4.16	7.49	18.1	10	833	52.0	340				90.					
9/11/2012	6.09	7.78	16.9	71	1080	185										
9/25/2012	5.82	8.14	15.0	66	1530	326	610	69	0.70	< 4.0	250	160	910	55	350	52
11/13/2012	10.5	7.71	10.1	7.4	880	57.6										
11/29/2012	4.65	7.62	12.0	44	725		240	38			92	110	510		182	
12/11/2012	5.77	7.53	9.94	64	591	74.3										
12/26/2012	7.42	7.70	8.32	120	621		210				80.			24	140	19
1/8/2013	12.1	7.91	7.29	46	1060	43.7										
1/29/2013	10.9	7.85	6.78	18	1490		560	56	0.61	< 2.0	230	280	950	54	330	48
2/12/2013	8.71	7.86	10.1	35	712	41.4										
2/28/2013	9.79	7.91	10.5	84	1870		630	65			290	390	1100	65		
3/12/2013	7.57	7.82	9.21	22	1750	866										
3/27/2013	2.94	7.65	11.1	180	1070		460	31	0.42	< 2.0	140	82	500	24	150	22
5/20/2013	5.58	7.77	19.5	5.9	1180	102	390	75	0.29		180	190	730	43	250	35
6/6/2013	3.05	7.50	22.7		1200											
6/18/2013	3.17	7.51	20.9	25	1180	11.0	490	48	0.78	< 2.0	180	210	790	53	300	40
7/2/2013	2.45	7.10	28.0		896											
7/24/2013		7.25	23.9	11	752	10.9	490	15	0.43		84	45	460	42	240	32
8/9/2013	3.57	7.50	20.9		960											
8/27/2013	4.48	7.76	20.6	52	845	166	390	28	0.42		100	42	510	26	150	21
9/5/2013	6.18	7.80	23.0		1030											
9/24/2013		7.95	17.2	180	721	> 2420	350	47	0.35	< 2.0	110	66	450			
Count	28	30	30	26	30	14	16	10	8	5	16	10	10	10	10	9
Min	2.45	7.10	6.78	5.9	111	10.9	210	15	0.29	< 2.0	80	42	450	24	140	19
Max	12.1	8.63	28.0	220	1870	> 2420	720	75	0.78	< 4.0	310	390	1100	65	350	52
Median	5.80	7.72	18.8	41	995	72.3	430	48	0.43	< 2.0	140	140	620	46	245	35
Mean	6.04	7.73	17.4	62	1010	316	430	47	0.50	0.60	160	160	690	43	240	34

B 9: Unnamed Tributary, Upstream of effluent (520COL106) continued…

	Nutrients		Metals									
	Nitrate as N	Nitrite as N	Dissolved Aluminum	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Total Aluminum	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium
Date	mg/L		µg/L									
4/16/2012	0.19	< 0.15					5800		< 10.			
5/9/2012												
5/29/2012	< 0.11	< 0.15					8100		< 10.			
6/4/2012												
6/7/2012												
6/28/2012	< 0.11						510		9.7			
7/10/2012												
7/24/2012							300		14			
8/15/2012												
8/28/2012	< 0.11						380		14			
9/11/2012												
9/25/2012	< 0.11		< 50.		44.3	460.0	2400	< 5	41	75	< 1	< 1.0
11/13/2012												
11/29/2012	0.16											
12/11/2012												
12/26/2012	0.49											
1/8/2013												
1/29/2013	< 0.66		< 5.0		24.0	300.0	470	< 0.5		75	< 0.5	< 0.25
2/12/2013												
2/28/2013	< 1.1											
3/12/2013												
3/27/2013	0.23		27		42.0	320.0	4500	< 0.5		83	< 0.5	< 0.25
5/20/2013	< 0.44			5.5					5.5			
6/6/2013												
6/18/2013	< 0.66		8.2	25	21.0	180.0	620	< 0.5	30.	65	< 0.5	< 0.25
7/2/2013												
7/24/2013	< 0.44			10.					11			
8/9/2013												
8/27/2013	< 0.44			11					15			
9/5/2013												
9/24/2013	< 0.22		16.0	14	62.0	3.5	2100	0.7	12	80.	< 0.5	< 0.25
Count	15	2	5.0	5	5	5	10	5	11	5	5	5
Min	< 0.11	< 0.15	< 5.0	5.5	21.0	3.500	300	< 0.5	5.5	65	< 0.5	< 0.25
Max	< 1.1	< 0.15	< 50.	25	62.0	457.0	8100	< 5	41	83	< 1	< 1.0
Median	0.23	< 0.15	16.0	11	42.0	300.0	1400	< 0.5	12	75	< 0.5	< 0.25
Mean	0.21	< 0.15	13.0	13	38.7	252.1	2500	0.5	14	76	0.2	0.10

B 9: Unnamed Tributary, Upstream of effluent (520COL106) continued…

	Metals												
	Total Chromium	Total Copper	Total Iron	Total Lead	Total Manganese	Total Mercury	Total Molybdenum	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc
Date	µg/L												
4/16/2012			8500		1000								
5/9/2012													
5/29/2012			7400		310								
6/4/2012													
6/7/2012													
6/28/2012			1100		200								
7/10/2012													
7/24/2012			480		150								
8/15/2012													
8/28/2012			440		150								
9/11/2012													
9/25/2012	6.7	8.3	3400	1.2	860	< 0.2	< 5.0	13	< 20.	< 5	< 1.0	21.0	9.5
11/13/2012													
11/29/2012													
12/11/2012													
12/26/2012													
1/8/2013													
1/29/2013	1.4	3.4	1200	0.39	610	< 0.2		6.5	< 1.0	< 1	< 1.0		< 5.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	11	11	6500	3.1	690	< 0.2		15	< 1.0	< 1	< 1.0		15
5/20/2013													
6/6/2013													
6/18/2013	1.8	4.0	1200	0.39	1300	< 0.2		8.7	< 1.0	< 1	< 1.0		< 5.0
7/2/2013													
7/24/2013													
8/9/2013													
8/27/2013													
9/5/2013													
9/24/2013	5.9	8.1	2600	1.5	330	< 0.4		12	< 1.0	< 0.3	< 1.0		8.8
Count	5	5	10	5	10	5	1	5	5	5	5	1	5
Min	1.4	3.4	440	0.39	150	< 0.2	< 5.0	6.5	< 1.0	< 0.3	< 1.0	21.0	< 5.0
Max	11	11	8500	3.1	1300	< 0.4	< 5.0	15	< 20.	< 5	< 1.0	21.0	15
Median	5.9	8.1	1900	1.2	470	< 0.2	< 5.0	12	< 1.0	< 1	< 1.0	21.0	8.8
Mean	5.4	7.0	3300	1.3	560	0.1	< 5.0	11	4.2	0.4	< 1.0	21.0	7.2

B 9: Unnamed Tributary, Upstream of effluent (520COL106) continued…

	Organics															
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane (123TCP)	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane (1,2-DCA)
	µg/L														
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012															
6/4/2012															
6/7/2012															
6/28/2012	< 0.5	< 0.5			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
7/10/2012															
7/24/2012															
8/15/2012															
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012															
9/25/2012															
11/13/2012															
11/29/2012															
12/11/2012															
12/26/2012															
1/8/2013															
1/29/2013															
2/12/2013															
2/28/2013															
3/1/2013															
3/2/2013															
3/12/2013															
3/27/2013															
5/20/2013															
6/6/2013															
6/18/2013															
7/2/2013															
7/24/2013															
8/9/2013															
8/27/2013															
9/5/2013															
9/24/2013															
Count	3	3	2	2	3	3	2	2	3	3	3	3	3	3	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 5	< 0.5	< 2
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	

B 9: Unnamed Tributary, Upstream of effluent (520COL106) continued…

	Organics															
Date	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Acrolein	Acrylonitrile	Benzene
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
5/29/2012																
6/4/2012																
6/7/2012																
6/28/2012	< 0.5	< 0.5	< 0.5		< 0.5									< 10	< 5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5			< 0.5
9/11/2012																
9/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/1/2013																
3/2/2013																
3/12/2013																
3/27/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	3	3	3	2	3	2	2	2	2	2	2	2	2	1	1	3
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	< 5	< 0.5	< 0.5	< 5	< 5	< 10	< 5	< 0.5

B 9: Unnamed Tributary, Upstream of effluent (520COL106) continued…

	Organics															
Date	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
	µg/L															
4/16/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012			< 0.5	< 0.5						< 0.5				< 0.5		
6/4/2012																
6/7/2012																
6/28/2012			< 0.5	< 0.5			< 0.5	< 0.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5		
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/1/2013																
3/2/2013																
3/12/2013																
3/27/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	2	2	4	4	2	2	3	3	3	4	2	3	3	4	2	2
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

B 9: Unnamed Tributary, Upstream of effluent (520COL106) continued…

	Organics															
Date	Di-isopropyl ether	Ethanol	Ethyl tert-Butyl Ether	Ethylbenzene	Gasoline Range Hydrocarbons	Hexachlorobutadiene	Hexavalent Chromium	Iodomethane	Isopropylbenzene	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-Butylbenzene	n-Propylbenzene
	µg/L															
4/16/2012	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
5/29/2012					< 50						< 0.1					
6/4/2012																
6/7/2012																
6/28/2012				< 0.5		< 0.5			< 0.5	< 0.5	< 0.1	< 1	< 1	< 0.5	< 0.5	< 0.5
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5	< 20	< 0.5	< 0.5		< 0.5		< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
9/11/2012																
9/25/2012							< 10									
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
2/12/2013																
2/28/2013																
3/1/2013																
3/2/2013																
3/12/2013																
3/27/2013																
5/20/2013																
6/6/2013																
6/18/2013																
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013																
Count	2	2	2	3	2	3	1	2	3	3	4	3	3	3	3	3
Min	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 0.5	< 0.1	< 1	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 1	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5	< 1	< 0.1	< 5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 20	< 0.5	< 0.5	< 50	< 0.5	< 10	< 0.5	< 0.5		< 0.1			< 0.5	< 0.5	< 0.5

B 9: Unnamed Tributary, Upstream of effluent (520COL106) continued…

	Organics															
Date	o-Xylene	Percholate	sec-Butylbenzene	Styrene	TBA	Tert-Amyl Methyl Ether	tert-Butylbenzene	Tetrachlorethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trichlorofluoromethane	Trichlorotrifluoroethane	Vinyl chloride	Xylenes, total
	µg/L															
4/16/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
5/29/2012																
6/4/2012																
6/7/2012																
6/28/2012	< 0.5		< 10				< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5			< 0.5	
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012	< 0.5		< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
9/11/2012																
9/25/2012		< 4														
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013		< 2														
2/12/2013																
2/28/2013																
3/1/2013																
3/2/2013																
3/12/2013																
3/27/2013		< 2														
5/20/2013																
6/6/2013																
6/18/2013		< 2														
7/2/2013																
7/24/2013																
8/9/2013																
8/27/2013																
9/5/2013																
9/24/2013		< 2														
Count	3	5	3	2	2	2	3	3	3	3	3	3	2	2	3	2
Min	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Max	< 0.5	< 4	< 10	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Median	< 0.5	< 2	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1
Mean	< 0.5			< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 1