APPENDIX B

COLUSA STUDY AREA

WATER QUALITY DATA

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APPENDIX B: COLUSA STUDY AREA WATER QUALITY DATA

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

	Field Data					Bacteria	General Chemistry						
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids
	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L					
4/16/2012	3.2	8.63	15.8	216.0	111		253				114		
5/9/2012	7.7	8.10	24.1	105.0	750								
5/29/2012	4.5	7.72	20.4	170.0	930		276				306		
6/4/2012	6.9			37.7	1260								
6/7/2012		8.40	23.4										
6/28/2012	3.8	7.53	26.0	24.2	1315		720				200		
7/10/2012	4.1	7.37	24.7	7.1	1140								
7/24/2012	6.8	7.38	23.7	12.6	1030		505				134		
8/15/2012	7.3	7.52	23.3	12.8	885	70.3							
8/28/2012	4.2	7.49	18.1	10.3	833	52.0	340				90		
9/11/2012	6.1	7.78	16.9	70.6	1076	185.0							
9/25/2012	5.8	8.14	15.0	66.0	1526	325.5	610	69	0.70	< 4.0	250	160	910
11/13/2012	10.5	7.71	10.1	7.4	880	57.6							
11/29/2012	4.7	7.62	12.0	43.7	725		240	38			92	110	507
12/11/2012	5.8	7.53	9.9	64.0	591	74.3							
12/26/2012	7.4	7.70	8.3	122.0	621		210				80		
1/8/2013	12.1	7.91	7.3	45.8	1056	43.7							
1/29/2013	10.9	7.85	6.8	17.6	1487		560	56	0.61	< 2.0	230	280	950
2/12/2013	8.7	7.86	10.1	34.9	712	41.4							
2/28/2013	9.8	7.91	10.5	84.4	1865		630	65			290	390	1100
3/12/2013	7.6	7.82	9.2	22.4	1745	866.4							
3/27/2013	2.9	7.65	11.1	177.0	1074		460	31	0.42	< 2.0	140	82	500
5/20/2013	5.6	7.77	19.5	5.9	1175	101.9	390	75	0.29		180	190	730
6/6/2013	3.1	7.50	22.7		1200								
6/18/2013	3.2	7.51	20.9	24.6	1178	11.0	490	48	0.78	< 2.0	180	210	790
7/2/2013	2.5	7.10	28.0		896								
7/24/2013		7.25	23.9	11.3	752	10.9	490	15	0.43		84	45	460
8/9/2013	3.6	7.50	20.9		960								
8/27/2013	4.5	7.76	20.6	51.6	845	165.8	390	28	0.42		100	42	510
9/5/2013	6.2	7.80	23.0		1029								
9/24/2013		7.95	17.2	176.0	721	> 2419.6	350	47	0.35	< 2.0	110	66	450
Count	28	30	30	26	30	14	16	10	8	5	16	10	10
Min	2.5	7.10	6.8	5.9	111	10.9	210	15	0.29	< 2.0	80	42	450
Max	12.1	8.63	28.0	216.0	1865	> 2419.6	720	75	0.78	< 4.0	306	390	1100
Median	5.8	7.72	18.8	40.7	995	72.3	425	48	0.43	< 2.0	137	135	620
Mean	6.0	7.73	17.4	62.3	1012	316.1	432	47	0.50	0.6	161	158	691

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.

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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					2670		< 10.0			
5/9/2012												
5/22/2012												
5/29/2012	< 0.11	< 0.15					3670		< 10.0			
6/5/2012												
6/28/2012	< 0.11						840		5.4			
7/10/2012												
7/24/2012							453		< 10.0			
8/15/2012												
8/28/2012	< 0.11						725		< 10.0			
9/11/2012												
9/25/2012	0.3		< 50.0		47.4	< 10.0	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	453	< 0.5	3.4	91	< 0.5	< 0.25
Max	0.58	< 0.15	< 50.0	6.2	96.0	< 10.0	3670	< 5.0	< 10.0	130	< 1.0	< 1.0
Median	0.29	< 0.15	< 5.0	3.3	47.4	1.5	1850	< 0.5	4.9	99	< 0.5	< 0.25
Mean	0.28	< 0.15	12.5	3.5	50.9	1.5	1946	0.4	3.9	105	0.2	0.4

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.

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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			4080		328								
5/9/2012													
5/22/2012													
5/29/2012			3810		197								
6/5/2012													
6/28/2012			1500		200								
7/10/2012													
7/24/2012			745		146								
8/15/2012													
8/28/2012			1140		145								
9/11/2012													
9/25/2012	5.7	< 5.0	3300	< 1.0	180	< 0.2	< 5.0	9	< 20.0	< 5.0	< 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	< 1.0	< 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	< 1.0	< 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	< 1.0	< 1.0		7.4
7/24/2013													
8/27/2013													
9/24/2013	4	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	4.6	745	0.68	145	< 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	< 20.0	< 5.0	< 1.0	11.0	12
Median	5.4	5.8	2950	0.94	194	< 0.2	< 5.0	8.2	< 1.0	< 1.0	< 1.0	11.0	8.5
Mean	5.7	5.5	2838	0.8	220	< 0.2	< 5.0	8.6	1.2	0.4	< 1.0	11.0	8.6

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

Date	Organics														
	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlrobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
	µg/L														
4/16/2012															
5/9/2012															
5/22/2012															
5/29/2012															
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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															
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

NOTE: Values reported as <##, < Reporting Limit was used.

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Reporting Limit values vary between labs.

DRAFT

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

Date	Organics														
	Acrolein	Acrylonitrile	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
	µg/L														
4/16/2012				< 0.5	< 0.5				< 0.5			< 0.5			
5/9/2012															
5/22/2012															
5/29/2012				< 0.5	< 0.5				< 0.5			< 0.5			
6/5/2012															
6/28/2012	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 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			
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	1	1	1	4	4	1	1	1	4	1	1	4	1	1	1
Min	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

NOTE: Values reported as <##, < Reporting Limit was used.
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For summary calculations, one fourth of any < (less than) values were used.
Reporting Limit values vary between labs.

DRAFT

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

	Organics																
	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	n-Propylbenzene	o-Xylene	sec-butylbenzene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Vinyl chloride
Date	µg/L	mg/L	µg/L													
4/16/2012		< 0.1														
5/9/2012																
5/22/2012																
5/29/2012		< 0.1														
6/5/2012																
6/28/2012	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 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		< 0.1														
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
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	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Field Data					Bacteria	General Chemistry						
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L					
4/16/2012	8.4	8.16	17.8	58.0	894		289				121		
5/9/2012	7.8	7.61	23.4	54.1	562								
5/22/2012	7.6	7.74	22.2	58.8	428		185				96		
6/5/2012	9.2	7.60	19.2	41.4	565								
6/28/2012	7.7	7.75	22.8	48.2	490		240				53		
7/10/2012	6.1	7.60	25.7	36.6	495								
7/24/2012	6.3	7.58	24.9	34.4	482		208				42		
8/15/2012	6.4	7.59	24.3	39.8	472	866.4							
8/28/2012	7.5	7.65	19.9	43.2	455	142.1	154				36		
9/11/2012	7.1	7.72	19.5	50.4	440	114.5							
9/25/2012	8.0	7.98	20.2	68.3	536	155.3		18	0.29	< 4.0	49	46	300
10/9/2012	8.4	7.93	17.9	56.5	552	101.2							
10/25/2012	8.9	7.69	13.3	24.4	469			20			44	58	300
11/13/2012	10.5	7.55	11.2	23.0	441	64.4							
11/29/2012	8.2	7.55	12.2	105.0	440		150	17			39	42	286
12/11/2012	5.5	7.37	10.6	20.8	536	59.1							
12/26/2012	9.3	7.89	8.3	160.0	367		130				33		
1/8/2013	11.8	7.80	8.7	70.8	513	387.3							
1/29/2013	11.0	7.94	10.5	86.2	626		190	23	0.42	< 2.0	63	63	370
2/12/2013	10.9	8.18	10.0	72.7	839	46.4							
2/28/2013	11.4	7.55	12.4	53.5	1077		340	57			140	160	640
3/12/2013	10.4	8.12	14.9	72.9	775	96.0							
3/27/2013	9.0	8.00	16.0	70.1	654		250	30	0.37	< 2.0	70	81	380
4/24/2013	8.5	7.51	17.2	80.5	380	214.3	180	13	0.22		38	46	240
5/20/2013	8.3	7.99	20.6	31.8	459	108.1	240	15	0.41		55	60	320
6/18/2013	7.1	7.83	22.5	22.4	541	204.6	250	14	0.43	< 2.0	58	53	290
7/24/2013		7.73	24.0	40.3	579	73.3	250	11	0.24		41	28	280
8/27/2013	7.2	7.62	21.2	52.3	439	140.1	170	11	0.21		37	17	270
9/24/2013		7.94	19.6	58.8	495	214.2	180	20	0.26	< 2.0	47	51	290
Count	27	29	29	29	29	16	16	12	9	5	18	12	12
Min	5.5	7.37	8.3	20.8	367	46.4	130	11	0.21	< 2.0	33	17	240
Max	11.8	8.18	25.7	160.0	1077	866.4	340	56	0.43	< 4.0	140	160	640
Median	8.3	7.73	19.2	53.5	495	127.3	190	18	0.29	< 2.0	48	52	295
Mean	8.5	7.76	17.6	56.4	552	186.7	213	21	0.32	0.6	59	59	331

NOTE: Values reported as <##, < Reporting Limit was used.
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For summary calculations, one fourth of any < (less than) values were used.
Reporting Limit values vary between labs.

DRAFT

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					2190		< 10.0			
5/9/2012												
5/22/2012	0.2	< 0.15					2660		< 10.0			
6/5/2012												
6/28/2012	0.12						1200		3.3			
7/10/2012												
7/24/2012							1340		< 10.0			
8/15/2012												
8/28/2012	0.15						721		< 10.0			
9/11/2012												
9/25/2012	0.28		< 50.0		88.3	< 10.0	2100	< 5.0	3.2	110	< 1.0	< 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		130.0	< 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	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	721	< 0.5	3.2	91	< 0.5	< 0.25
Max	0.84	< 0.15	< 50.0	4	130.0	< 10.0	3900	< 5.0	< 10.0	140	< 1.0	< 1.0
Median	0.28	< 0.15	< 6.7	2.95	46.0	1.0	2145	< 0.5	4.4	110	< 0.5	< 0.25
Mean	0.29	< 0.15	5.9	2.9	65.9	0.7	2101	0.4	3.4	114	0.2	0.1

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.

DRAFT

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			3210		321								
5/9/2012													
5/22/2012			3510		222								
6/5/2012													
6/28/2012			2000		140								
7/10/2012													
7/24/2012			1600		180								
8/15/2012													
8/28/2012			1170		161								
9/11/2012													
9/25/2012	7.7	5.2	3300	< 1.0	220	< 0.2	< 5.0	8.9	< 20.0	< 5.0	< 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	< 1.0	< 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	< 1.0	< 1.0		9.9
4/24/2013													
5/20/2013													
6/18/2013	3	6.0	1800	0.52	120	< 0.2		6.8	< 1.0	< 1.0	< 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	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	< 20.0	< 5.0	< 1.0	11.0	14
Median	7.7	6.8	3255	1.2	221	< 0.2	< 5.0	8.9	< 1.0	< 1.0	< 1.0	11.0	9.9
Mean	7.1	7.1	3179	1.0	224	0.1	< 5.0	9.6	1.2	0.4	< 1.0	11.0	9.1

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.

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

	Organics													
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlrobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
	µg/L														
4/16/2012															
5/9/2012															
5/22/2012															
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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															
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

NOTE: Values reported as <##, < Reporting Limit was used.
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Reporting Limit values vary between labs.

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

Date	Organics														
	Acrolein	Acrylonitrile	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
	µg/L														
4/16/2012				< 0.5	< 0.5				< 0.5			< 0.5			
5/9/2012															
5/22/2012				< 0.5	< 0.5				< 0.5			< 0.5			
6/5/2012															
6/28/2012	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 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			
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	1	1	1	4	4	1	1	1	4	1	1	4	1	1	1
Min	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

NOTE: Values reported as <##, < Reporting Limit was used.
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Reporting Limit values vary between labs.

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

	Organics																
	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	n-Propylbenzene	o-Xylene	sec-butylbenzene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Vinyl chloride
Date	µg/L	mg/L	µg/L													
4/16/2012		< 0.1														
5/9/2012																
5/22/2012		< 0.1														
6/5/2012																
6/28/2012	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 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		< 0.1														
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
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	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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Reporting Limit values vary between labs.

DRAFT

B 3: Colusa Effluent

	Field Data					Bacteria	General Chemistry							
Date	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Ammonia as N	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids
	mg/L		°C	ntu	µS/cm	MPN	mg/L	µg/L	mg/L					
4/16/2012	4.1	7.47	18.5	0.7	912			382				169		
5/9/2012		7.76	22.1	2.3	1021									
5/29/2012	8.3	7.49	22.4	1.5	904			434				371		
6/4/2012			22.4	2.4										
6/5/2012		7.30			900									
6/28/2012	5.5	7.65	24.9	1.1	989		< 1.0	490	86	0.78		170	38	610
7/10/2012	8.1	7.85	27.1	0.6	NR									
7/24/2012	7.3	7.38	27.3	1.2	850			368				146		
8/15/2012	8.3	7.48	28.0	0.9	860	< 1.0								
8/28/2012	7.9	7.61	25.4	0.6	852	< 1.0		393				143		
9/11/2012	7.4	7.37	25.2	2.0	873	< 1.0								
9/25/2012	9.5	7.57	24.2	0.9	828	1.0		380	64	0.53	< 4.0	140	31	500
10/9/2012	8.2	7.49	23.0	1.0	810	< 1.0								
10/25/2012	7.6	7.52	19.8	1.6	807				66			140	32	520
11/13/2012	9.5	7.37	18.1	0.6	901	< 1.0								
11/29/2012	8.6	7.42	17.6	1.0	888			360	76			140	42	600
12/11/2012	7.7	7.16	16.5	0.4	902	< 1.0								
12/26/2012	7.8	7.34	14.0	0.8	846			380				130		
1/8/2013	8.0	7.40	14.8	0.6	911	< 1.0								
1/29/2013	10.0	7.55	15.1	1.3	929			440	78	0.63	< 4.0	150	46	590
2/12/2013	12.2	7.70	18.1	2.6	955	< 1.0								
2/28/2013	8.9	7.59	15.5	2.0	940			430	81			160	44	580
3/12/2013	8.8	7.79	16.7	3.3	964	< 1.0								
3/27/2013	9.8	7.60	18.4	1.9	891			420	84	0.58	< 60.0	150	37	580
4/24/2013	9.7	7.47	19.2	5.2	958	< 1.0		530	95	0.58		180	55	650
5/20/2013	9.1	7.53	22.0	0.6	984	< 1.0		410	88	0.44		160	48	620
6/5/2013		7.40	23.6											
6/18/2013	7.8	7.44	24.7	0.9	914	< 1.0		360	80	0.44	< 40.0	150	38	570
7/2/2013		7.30	29.8											
7/24/2013		7.32	26.2	0.6	866	< 1.0		470	77	0.29		150	32	560
8/7/2013		7.20	25.6	0.6										
8/27/2013	7.8	7.31	58.9	1.0	912	< 1.0		450	78	0.34		150	38	560
9/5/2013		6.90	25.5	0.4										
9/24/2013		7.60	24.0	1.1	911	< 1.0		460	78	0.27	< 20.0	150	40	540
Count	25	33	33	31	28	16	1	17	13	10	5	18	13	13
Min	4.1	6.90	14.0	0.4	807	< 1.0	< 1.0	360	64	0.27	< 4.0	130	31	500
Max	12.2	7.85	58.9	5.2	1021	< 1.0	< 1.0	530	95	0.78	< 60.0	371	55	650
Median	8.2	7.47	22.4	1.0	903	< 1.0	< 1.0	420	78	0.49	< 20.0	150	38	580
Mean	8.3	7.46	22.9	1.3	903	< 1.0	< 1.0	421	79	0.49	6.4	164	40	575

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Reporting Limit values vary between labs.

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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	21.1	0.22					< 50		< 10.0			
5/9/2012												
5/29/2012	24.6	< 0.15					< 50		< 10.0			
6/4/2012												
6/5/2012												
6/28/2012	26.4						24	< 1.0	4.0	37		< 0.2
7/10/2012												
7/24/2012							< 50		< 10.0			
8/15/2012												
8/28/2012	25.3						< 50		< 10.0			
9/11/2012												
9/25/2012	23.45		< 50.0		57.0	< 10.0	< 50	< 5.0	3.5	32	< 1.0	< 1.0
10/9/2012												
10/25/2012	25.7											
11/13/2012												
11/29/2012	30											
12/11/2012												
12/26/2012	23											
1/8/2013												
1/29/2013	31		12.0		32.0	< 1.0	21	< 0.5		40	< 0.5	< 0.25
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	< 0.25
4/24/2013	24			2.7					3.1			
5/20/2013	30			1.3					1.4			
6/5/2013												
6/18/2013	31		19.0	1.8	20.0	< 1.0	24	< 0.5	1.8	42	< 0.5	< 0.25
7/2/2013												
7/24/2013	29			3					2.9			
8/7/2013												
8/27/2013	26			1.5					1.6			
9/5/2013												
9/24/2013	31		14.0	1.5	29.0	< 1.0	17	< 0.5	1.3	42	< 0.5	< 0.25
Count	17	2	5.0	6	5	5	10	6	12	6	5	6
Min	21.1	< 0.15	8.7	1.3	20.0	< 1.0	17	< 0.5	1.3	32	< 0.5	< 0.2
Max	31	0.22	< 50.0	3	57.0	< 10.0	55	< 5.0	< 10.0	42	< 1.0	< 1.0
Median	26	0.19	14.0	1.65	29.0	< 1.0	< 50	< 0.5	3.3	39	< 0.5	< 0.25
Mean	26.86	0.13	13.2	2.0	33.2	1.4	20	0.3	2.5	38	0.2	0.1

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For summary calculations, one fourth of any < (less than) values were used.

Reporting Limit values vary between labs.

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B 3: Colusa Effluent continued…

Date	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
	µg/L												
4/16/2012			41		< 10.0								
5/9/2012													
5/29/2012			32		< 10.0								
6/4/2012													
6/5/2012													
6/28/2012	1.1	6.4	63	< 0.5	< 1.0			2.1	1.2	< 1.0	< 1.0		37
7/10/2012													
7/24/2012			< 20		< 10.0								
8/15/2012													
8/28/2012			28		< 10.0								
9/11/2012													
9/25/2012	< 5.0	< 5.0	31	< 1.0	< 5.0	< 0.2	< 5.0	< 5.0	< 20.0	< 5.0	< 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	< 0.5	11.0	42	0.77	< 1.0	< 0.2		1.2	< 1.0	< 1.0	< 1.0		38
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	0.52	4.4	95	0.17	4	< 0.2		1.5	< 1.0	< 1.0	< 1.0		34
4/24/2013													
5/20/2013													
6/5/2013													
6/18/2013	< 0.5	7.6	27	0.11	< 1.0	< 0.2		1.8	< 1.0	< 1.0	< 1.0		36
7/2/2013													
7/24/2013													
8/7/2013													
8/27/2013													
9/5/2013													
9/24/2013	< 0.5	4.6	32	0.11	< 1	< 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	< 0.5	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	11.0	95	< 1.0	< 10.0	< 0.4	< 5.0	< 5	< 20.0	< 5.0	< 1.0	< 10.0	38
Median	0.51	5.7	32	0.34	4	< 0.2	< 5.0	1.75	< 1.0	< 1.0	< 1.0	< 10.0	35
Mean	0.5	5.9	41	0.3	2	0.1	< 5.0	1.6	1.2	0.4	< 1.0	< 10.0	34

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.

DRAFT

B 3: Colusa Effluent continued…

	Organics																	
	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlrobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	2,3,7,8-TCDD (Dioxin)	2,4,5-TP (Silvex)
Date	µg/L															mg/L	µg/L
4/16/2012																	
5/9/2012																	
5/29/2012																	
6/4/2012																	
6/5/2012																	
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 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																	
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	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.4	< 0.5

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.

DRAFT

B 3: Colusa Effluent continued…

Date	Organics																
	2,4-D	2,4-DB	2,4-Dimethylphenol	2-Chlorophenol	2-Methylnaphthalene	4,4'-DDD	4,4'-DDE	4,4'-DDT	Acenaphthene	Acrolein	Acrylonitrile	Aldrin	alpha-BHC	Anthracene	Atrazine	Benzene	Benzo (a) anthracene
	µg/L																
4/16/2012																	
5/9/2012																	
5/29/2012																	
6/4/2012																	
6/5/2012																	
6/28/2012	< 0.5	< 5.0	< 5.0	< 5.0	< 5.0	< 0.05	< 0.05	< 0.05	< 5.0	< 10.0	< 5.0	< 0.1	< 0.1	< 5.0	< 0.5	< 0.5	< 5.0
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																	
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	1	1	1	1	1	1	1
Min	< 0.5	< 5.0	< 5.0	< 5.0	< 5.0	< 0.05	< 0.05	< 0.05	< 5.0	< 10.0	< 5.0	< 0.1	< 0.1	< 5.0	< 0.5	< 0.5	< 5.0
Max	< 0.5	< 5.0	< 5.0	< 5.0	< 5.0	< 0.05	< 0.05	< 0.05	< 5.0	< 10.0	< 5.0	< 0.1	< 0.1	< 5.0	< 0.5	< 0.5	< 5.0
Median	< 0.5	< 5.0	< 5.0	< 5.0	< 5.0	< 0.05	< 0.05	< 0.05	< 5.0	< 10.0	< 5.0	< 0.1	< 0.1	< 5.0	< 0.5	< 0.5	< 5.0
Mean	< 0.5	< 5.0	< 5.0	< 5.0	< 5.0	< 0.05	< 0.05	< 0.05	< 5.0	< 10.0	< 5.0	< 0.1	< 0.1	< 5.0	< 0.5	< 0.5	< 5.0

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.

DRAFT

B 3: Colusa Effluent continued…

Date	Organics																
	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	beta-BHC	Bis(2-chloroethyl) ether	Bis(2-ethylhexyl) phthalate	Bromodichloromethane	Bromoform	Carbaryl	Carbofuran	Carbon tetrachloride	Chlordane (tech)	Chlorobenzene	Chloroethane	Chloroform	Chlorpyrifos	Chrysene
	µg/L																
4/16/2012							< 0.5	< 0.5							< 0.5		
5/9/2012																	
5/29/2012							< 0.5	< 0.5							< 0.5		
6/4/2012																	
6/5/2012																	
6/28/2012	< 5.0	< 5.0	< 5.0	< 0.1	< 5	< 5	< 0.5	< 0.5	< 2.0	< 2.0	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	0.98	< 5.0
7/10/2012																	
7/24/2012																	
8/15/2012																	
8/28/2012							< 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	4	4	1	1	1	1	1	1	4	1	1
Min	< 5.0	< 5.0	< 5.0	< 0.1	< 5	< 5	< 0.5	< 0.5	< 2.0	< 2.0	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	0.98	< 5.0
Max	< 5.0	< 5.0	< 5.0	< 0.1	< 5	< 5	< 0.5	< 0.5	< 2.0	< 2.0	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	0.98	< 5.0
Median	< 5.0	< 5.0	< 5.0	< 0.1	< 5	< 5	< 0.5	< 0.5	< 2.0	< 2.0	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	0.98	< 5.0
Mean	< 5.0	< 5.0	< 5.0	< 0.1	< 5.0	< 5.0	< 0.5	< 0.5	< 2.0	< 2.0	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	0.98	< 5.0

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.

DRAFT

B 3: Colusa Effluent continued…

Date	Organics																	
	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dalapon	Diazinon	Dibromochloromethane	Dicamba	Dieldrin	Dinoseb	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Ethylbenzene	Fluoranthene	Fluorene	Heptachlor epoxide	Hexachlorobutadiene
	µg/L																	
4/16/2012					< 0.5													
5/9/2012																		
5/29/2012					< 0.5													
6/4/2012																		
6/5/2012																		
6/28/2012	< 0.5	< 0.5	< 20.0	< 0.2	< 0.5	< 0.5	< 0.05	< 2.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 5.0	< 5.0	< 0.05	< 5.0
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	4	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 20.0	< 0.2	< 0.5	< 0.5	< 0.05	< 2.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 5.0	< 5.0	< 0.05	< 5.0
Max	< 0.5	< 0.5	< 20.0	< 0.2	< 0.5	< 0.5	< 0.05	< 2.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 5.0	< 5.0	< 0.05	< 5.0
Median	< 0.5	< 0.5	< 20.0	< 0.2	< 0.5	< 0.5	< 0.05	< 2.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 5.0	< 5.0	< 0.05	< 5.0
Mean	< 0.5	< 0.5	< 20.0	< 0.2	< 0.5	< 0.5	< 0.05	< 2.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.5	< 5.0	< 5.0	< 0.05	< 5.0

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.

DRAFT

B 3: Colusa Effluent continued…

	Organics																	
	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Isopropylbenzene	m,p-Xylene	MBAs	Methoxychlor	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	Nitrobenzene	N-Nitrosodimethylamine	N-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	PCB-1016	PCB-1221
Date	µg/L					mg/L	µg/L											
4/16/2012						0.17												
5/9/2012																		
5/29/2012						0.14												
6/4/2012																		
6/5/2012																		
6/28/2012	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	0.14	< 0.05	< 1.0	< 1.0	< 0.5	< 0.5	< 5.0	< 5.0	< 5.0	< 0.5	< 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																		
10/9/2012																		
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	4	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	< 0.1	< 0.05	< 1.0	< 1.0	< 0.5	< 0.5	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	0.17	< 0.05	< 1.0	< 1.0	< 0.5	< 0.5	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	0.14	< 0.05	< 1.0	< 1.0	< 0.5	< 0.5	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	0.1	< 0.05	< 1.0	< 1.0	< 0.5	< 0.5	< 5.0	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

B 3: Colusa Effluent continued…

Date	Organics																	
	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	Pentachlorophenol	Pyrene	sec-butylbenzene	Simazine	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	Toxaphene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Trifluralin	Vinyl chloride
	µg/L																	
4/16/2012																		
5/9/2012																		
5/29/2012																		
6/4/2012																		
6/5/2012																		
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 10.0	< 0.1	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.05	< 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																		
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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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 10.0	< 0.1	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.05	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 10.0	< 0.1	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.05	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 10.0	< 0.1	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.05	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 10.0	< 0.1	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	< 0.5	< 0.05	< 0.5

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.

DRAFT

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

	Field Data					Bacteria	General Chemistry						
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L					
4/16/2012	11.8	8.22	16.5	72.2	2445		1280				750		
5/9/2012	7.5	8.30	28.4	149.7	1825								
5/29/2012	5.5	7.97	20.6	119.7	864		307				324		
6/4/2012				69.4									
6/28/2012	5.0	7.66	26.0	31.3	1336		710				210		
7/10/2012	7.4	7.92	22.6	36.2	2003								
7/24/2012	6.8	7.76	22.7	63.6	1445		974				269		
8/15/2012	5.7	7.57	23.2	15.2	2103	< 1.0							
8/28/2012	5.6	7.64	18.1	25.4	1302	7.4	561				270		
9/11/2012	4.9	7.61	16.6	22.3	1691	5.2							
11/13/2012	10.5	7.83	11.6	23.0	2370	38.4							
11/29/2012	8.9	8.11	11.7	48.6	1666		420	140			240	200	1130
12/11/2012	9.5	7.80	10.0	30.6	1277	10.9							
12/26/2012	9.3	7.86	8.8	92.3	882		290				110		
1/8/2013	12.5	7.80	7.8	32.3	2018	5.2							
1/29/2013	11.8	7.52	8.5	26.1	3114		1400	120	0.93	< 4.0	600	1100	2400
2/12/2013	3.9	7.90	6.4	408.0	1493	17.5							
2/28/2013	13.9	8.01	12.2	28.0	3465		1500	130			620	1200	2400
3/27/2013		7.83	11.3	87.8	2377		1900	160	1.10	< 4.0	720	1300	2600
5/20/2013	9.2	7.77	19.5	11.4	1224	110.0	420	75	0.32		180	210	750
6/18/2013	8.2	8.16	18.3	31.5	2375	38.4	910	150	0.56	< 2.0	390	570	1600
7/24/2013		7.16	24.4	214.3	1588	26.2	990	67	0.46		240	340	1000
8/27/2013	4.5	7.89	20.5	231.0	682	26.9	1100	62	0.52		300	480	1300
9/24/2013		8.37	16.1	125.3	2138	> 2419.6	950	120	0.38	< 4.0	370	570	1400
Count	20	23	23	24	23	12	15	9	7	4	15	9	9
Min	3.9	7.16	6.4	11.4	682	< 1.0	290	62	0.32	< 2.0	110	200	750
Max	13.9	8.37	28.4	408.0	3465	> 2419.6	1900	160	1.10	< 4.0	750	1300	2600
Median	7.8	7.83	16.6	42.4	1691	21.9	950	120	0.52	< 4.0	300	570	1400
Mean	8.1	7.85	16.6	83.1	1812	225.6	914	114	0.61	0.9	373	663	1620

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.

DRAFT

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					3910		< 10.0			
5/9/2012												
5/29/2012	3.41	< 0.15					6180		< 10.0			
6/4/2012												
6/28/2012	1.47						640		9.0			
7/10/2012												
7/24/2012							3110		13.1			
8/15/2012												
8/28/2012	0.13						673		< 10.0			
9/11/2012												
11/13/2012												
11/29/2012	< 0.05											
12/11/2012												
12/26/2012	7.53											
1/8/2013												
1/29/2013	< 2.2		< 5.0		< 10.0	390.0	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	10.0	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	21.0	74	< 0.5	< 0.25
7/24/2013	< 0.66			12					14.0			
8/27/2013	< 1.1			12					17.0			
9/24/2013	< 0.66		< 5.0	14	19.0	2.4	3600	0.6	15.0	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	7.53	1.2	< 5.0	19	19.0	390.0	6180	0.6	21.0	87	< 0.5	< 0.25
Median	1.15	< 0.15	< 5.0	12	< 10.0	9.1	2700	< 0.5	11.6	83	< 0.5	< 0.25
Mean	1.38	0.43	< 5.0	12.6	8.5	102.6	2635	0.2	10.3	82	< 0.5	0.1

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.

DRAFT

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			4870		498							
5/9/2012												
5/29/2012			5300		287							
6/4/2012												
6/28/2012			1300		200							
7/10/2012												
7/24/2012			2660		471							
8/15/2012												
8/28/2012			557		119							
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	< 1.0	< 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	< 1.0	< 1.0		7.3
5/20/2013												
6/18/2013	2	8.0	950	0.32	340	< 0.2	7.8	< 1.0	< 1.0	< 1.0		< 5
7/24/2013												
8/27/2013												
9/24/2013	9.4	11.0	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	557	0.32	119	< 0.2	7.8	< 1.0	< 0.3	< 1.0		< 5
Max	9.4	11.0	5500	3.3	910	< 0.4	16	< 1.0	< 1.0	< 1.0		16
Median	6.15	8.1	2800	1.09	471	< 0.2	12.5	< 1.0	< 1.0	< 1.0		8.5
Mean	5.9	8.4	3049	1.5	472	0.1	12.2	< 1.0	0.2	< 1.0		8.6

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.

DRAFT

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

Date	Organics														
	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlrobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
	µg/L														
4/16/2012															
5/9/2012															
5/29/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 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															
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 0.5	< 0.5	< 10.0	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

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

	Organics														
Date	Acrolein	Acrylonitrile	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
	µg/L														
4/16/2012				< 0.5	< 0.5				< 0.5			< 0.5			
5/9/2012															
5/29/2012	< 1.5	< 2.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.11	< 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			
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	1	1	1	3	3	1	1	1	4	1	1	3	1	1	1
Min	< 1.5	< 2.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 1.5	< 2.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 1.5	< 2.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.11	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 1.5	< 2.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5

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.

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

	Organics															
	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	n-Propylbenzene	o-Xylene	sec-butylbenzene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Vinyl chloride
Date	µg/L	mg/L	µg/L													
4/16/2012		< 0.1														
5/9/2012																
5/29/2012	< 1.0	< 0.1	< 5.0	< 0.4	< 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		< 0.1														
7/10/2012																
7/24/2012																
8/15/2012																
8/28/2012		< 0.1														
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	1.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 1.0	< 0.1	< 5.0	< 0.4	< 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	< 1.0	< 0.1	< 5.0	< 0.4	< 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	< 1.0	< 0.1	< 5.0	< 0.4	< 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	< 1.0	< 0.1	< 5.0	< 0.4	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

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

	Field Data					Bacteria	General Chemistry						
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L					
4/16/2012	18.9	8.90	22.6	45.9	1635		478				389		
5/9/2012	13.2	8.65	34.6	24.5	1230								
5/29/2012	9.1	8.34	17.2	33.0	968		423				317		
6/4/2012		8.30	23.6	35.4	1160								
6/28/2012	8.5	7.87	27.4	52.2	1371		730				200		
7/10/2012	6.8	7.63	24.3	35.7	1154								
7/24/2012	7.1	7.63	24.9	32.2	891		431				105		
8/15/2012	5.9	7.66	25.5	46.8	786	26.2							
8/28/2012	8.4	7.90	20.9	46.2	801	53.9	293				83		
9/11/2012	6.6	7.80	20.1	42.1	952	39.3							
9/25/2012	8.7	8.00	20.5	53.4	788	46.4	290	34	0.46	< 4.0	95	54	440
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	92	480
11/13/2012	10.4	7.63	11.5	25.1	820	31.8							
11/29/2012	7.4	7.78	12.1	37.2	678		220	28			73	90	490
12/11/2012	6.8	7.40	10.7	27.7	500	58.8							
12/26/2012	9.0	7.60	8.1	172.0	399		140				39		
1/8/2013	11.4	7.77	7.9	26.2	810	26.9							
1/29/2013	9.5	7.88	7.2	22.3	1328		360	47	2.70	< 2.0	170	280	780
2/12/2013	12.6	8.02	7.8	71.9	386	34.1							
2/28/2013		7.70	15.3	23.6	1194		570	92			310	610	1400
3/12/2013	12.2	8.12	10.8	63.5	1517	435.2							
3/27/2013	9.1	7.98	12.3	96.2	1391		380	94	0.42	< 2.0	180	320	960
4/24/2013	6.7	8.35	16.3	38.8	1401	43.2	480	89	0.52		200	280	910
5/20/2013	9.8	8.11	17.8	34.3	1054	108.6	450	46	0.68		150	220	640
6/6/2013	6.3	7.90	22.3		1080								
6/18/2013	8.0	7.77	22.6	23.4	916	10.8	420	28	0.72	< 2.0	110	120	540
7/2/2013	6.1	7.60	29.8		811								
7/24/2013		7.09	26.1	36.1	719	12.1	410	15	0.39		77	57	440
8/9/2013	5.8	7.60	25.1		698								
8/27/2013	5.7	7.56	22.2	65.9	734	38.4	320	21	0.33		82	40	420
9/5/2013	7.4	7.90	25.1		755								
9/24/2013		8.31	20.0	66.0	923	> 2419.6	360	44	0.35	< 2.0	120	89	530
Count	29	33	33	29	33	16	17	12	9	5	18	12	12
Min	5.7	7.09	7.2	22.3	386	10.8	140	15	0.33	< 2.0	39	40	420
Max	18.9	8.90	34.6	172.0	1635	> 2419.6	730	94	2.70	< 4.0	389	610	1400
Median	8.5	7.88	20.1	37.2	891	38.9	410	40	0.46	< 2.0	115	106	535
Mean	9.0	7.91	18.9	46.6	947	213.6	397	48	0.73	0.6	155	188	669

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.

DRAFT

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	< 0.11	< 0.15					597		< 10.0			
5/9/2012												
5/22/2012												
5/29/2012	< 0.11	< 0.15					477		< 10.0			
6/5/2012												
6/28/2012	< 0.11						120		6.8			
7/24/2012							204		< 10.0			
8/15/2012												
8/28/2012	0.21						584		< 10.0			
9/11/2012												
9/25/2012	< 0.11		< 50.0		30.4	71.0	4800	< 5.0	9.3	110	< 1.0	< 1.0
10/9/2012												
10/25/2012	0.27											
11/13/2012												
11/29/2012	0.06											
12/11/2012												
12/26/2012	0.44											
1/8/2013												
1/29/2013	< 0.44		< 5.0		13.0	< 1.0	920	< 0.5		76	< 0.5	< 0.25
2/12/2013												
2/28/2013	0.73											
3/12/2013												
3/27/2013	0.5		< 5.0		10.0	650.0	1700	< 0.5		120	< 0.5	< 0.25
4/24/2013	< 0.22			5.1					6.6			
5/20/2013	0.2			5					6.1			
6/18/2013	< 0.22		< 5.0	9.4	20.0	14.0	2100	< 0.5	12.0	93	< 0.5	< 0.25
7/24/2013	< 0.44			8					8.2			
8/27/2013	< 0.22			7.2					7.3			
9/24/2013	< 0.44		< 5.0	12	17.0	7.7	2700	< 0.5	12.0	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	10.0	< 1.0	120	< 0.5	6.1	76	< 0.5	< 0.25
Max	0.73	< 0.15	< 50.0	12	30.4	650.0	4800	< 5.0	12.0	120	< 1.0	< 1.0
Median	< 0.22	< 0.15	< 5.0	7.6	17.0	14.0	759	< 0.5	< 9.7	110	< 0.5	< 0.25
Mean	0.21	< 0.15	3.5	7.8	18.1	148.6	1420	0.4	6.5	104	0.2	0.1

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.

DRAFT

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			997		2080								
5/9/2012													
5/22/2012													
5/29/2012			530		91								
6/5/2012													
6/28/2012			370		98								
7/24/2012			386		241								
8/15/2012													
8/28/2012			700		126								
9/11/2012													
9/25/2012	13	11.0	7400	1.8	560	< 0.2	< 5.0	20	< 20.0	< 5.0	< 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	< 1.0	< 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	< 1.0	< 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	< 1.0	< 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	11.0	7400	1.8	2080	< 0.4	< 5.0	20	< 20.0	< 5.0	< 1.0	19.0	19
Median	5.4	6.6	1199	1.2	355	< 0.2	< 5.0	11	< 1.0	< 1.0	< 1.0	19.0	8.4
Mean	6.6	6.9	2138	1.2	547	0.1	< 5.0	11.6	1.2	0.4	< 1.0	19.0	9.6

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.

DRAFT

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

	Organics														
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlrobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
	µg/L														
4/16/2012															
5/9/2012															
5/22/2012															
5/29/2012															
6/5/2012															
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
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															
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Organics														
Date	Acrolein	Acrylonitrile	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
	µg/L														
4/16/2012				< 0.5	< 0.5				< 0.5			< 0.5			
5/9/2012															
5/22/2012															
5/29/2012				< 0.5	< 0.5				< 0.5			< 0.5			
6/5/2012															
6/28/2012	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 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			
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	1	1	1	4	4	1	1	1	4	1	1	4	1	1	1
Min	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	0.5	0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

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

	Organics															
	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	n-Propylbenzene	o-Xylene	sec-butylbenzene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Vinyl chloride
Date	µg/L	mg/L	µg/L													
4/16/2012		< 0.1														
5/9/2012																
5/22/2012																
5/29/2012		< 0.1														
6/5/2012																
6/28/2012	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
7/24/2012																
8/15/2012																
8/28/2012		< 0.1														
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
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	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Field Data					Bacteria	General Chemistry						
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L					
4/16/2012	18.9	8.90	22.6	45.9	1635		478				389		
5/9/2012	13.2	8.65	34.6	24.5	1230								
5/29/2012	9.1	8.34	17.2	33.0	968		423				317		
6/4/2012		8.30	23.6	35.4	1160								
6/28/2012	8.5	7.87	27.4	52.2	1371		730				200		
7/10/2012	6.8	7.63	24.3	35.7	1154								
7/24/2012	7.1	7.63	24.9	32.2	891		431				105		
8/15/2012	5.9	7.66	25.5	46.8	786	26.2							
8/28/2012	8.4	7.90	20.9	46.2	801	53.9	293				83		
9/11/2012	6.6	7.80	20.1	42.1	952	39.3							
9/25/2012	8.7	8.00	20.5	53.4	788	46.4	290	34	0.46	< 4.0	95	54	440
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	92	480
11/13/2012	10.4	7.63	11.5	25.1	820	31.8							
11/29/2012	7.4	7.78	12.1	37.2	678		220	28			73	90	490
12/11/2012	6.8	7.40	10.7	27.7	500	58.8							
12/26/2012	9.0	7.60	8.1	172.0	399		140				39		
1/8/2013	11.4	7.77	7.9	26.2	810	26.9							
1/29/2013	9.5	7.88	7.2	22.3	1328		360	47	2.70	< 2.0	170	280	780
2/12/2013	12.6	8.02	7.8	71.9	386	34.1							
2/28/2013		7.70	15.3	23.6	1194		570	92			310	610	1400
3/12/2013	12.2	8.12	10.8	63.5	1517	435.2							
3/27/2013	9.1	7.98	12.3	96.2	1391		380	94	0.42	< 2.0	180	320	960
4/24/2013	6.7	8.35	16.3	38.8	1401	43.2	480	89	0.52		200	280	910
5/20/2013	9.8	8.11	17.8	34.3	1054	108.6	450	46	0.68		150	220	640
6/6/2013	6.3	7.90	22.3		1080								
6/18/2013	8.0	7.77	22.6	23.4	916	10.8	420	28	0.72	< 2.0	110	120	540
7/2/2013	6.1	7.60	29.8		811								
7/24/2013		7.09	26.1	36.1	719	12.1	410	15	0.39		77	57	440
8/9/2013	5.8	7.60	25.1		698								
8/27/2013	5.7	7.56	22.2	65.9	734	38.4	320	21	0.33		82	40	420
9/5/2013	7.4	7.90	25.1		755								
9/24/2013		8.31	20.0	66.0	923	> 2419.6	360	44	0.35	< 2.0	120	89	530
Count	29	33	33	29	33	16	17	12	9	5	18	12	12
Min	5.7	7.09	7.2	22.3	386	10.8	140	15	0.33	< 2.0	39	40	420
Max	18.9	8.90	34.6	172.0	1635	> 2419.6	730	94	2.70	< 4.0	389	610	1400
Median	8.5	7.88	20.1	37.2	891	38.9	410	40	0.46	< 2.0	115	106	535
Mean	9.0	7.91	18.9	46.6	947	213.6	397	48	0.73	0.6	155	188	669

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.

DRAFT

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	6.76	< 0.15					1180		< 10.0			
5/9/2012												
5/29/2012	2.8	< 0.15					1280		< 10.0			
6/4/2012												
6/28/2012	2.12						790		9.7			
7/10/2012												
7/24/2012							363		< 10.0			
8/15/2012												
8/28/2012	0.53						747		< 10.0			
9/11/2012												
9/25/2012	6.57		< 50.0		176.5	< 10.0	1100	< 5.0	6.9	63	< 1.0	< 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	150.0	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	11.0	74	< 0.5	< 0.25
7/2/2013												
7/24/2013	0.72			8.2					9.0			
8/9/2013				3								
8/27/2013	< 0.44			6.9					10.0			
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	< 10.0	< 1.0	363	< 0.5	4.8	63	< 0.5	< 0.25
Max	6.76	< 0.15	< 50.0	9.5	176.5	150.0	4800	< 5.0	11.0	120	< 1.0	< 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	2.41	< 0.15	3.5	7.0	44.8	30.8	1345	0.4	6.6	82	0.2	0.1

NOTE: Values reported as <##, < Reporting Limit was used.

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For summary calculations, one fourth of any < (less than) values were used.

Reporting Limit values vary between labs.

DRAFT

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

Date	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
	µg/L												
4/16/2012			1640		774								
5/9/2012													
5/29/2012			1450		149								
6/4/2012													
6/28/2012			1500		350								
7/10/2012													
7/24/2012			576		259								
8/15/2012													
8/28/2012			792		139								
9/11/2012													
9/25/2012	< 5.0	< 5.0	1700	< 1.0	130	< 0.2	< 5.0	6.7	< 20.0	< 5.0	< 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	< 1.0	< 1.0		< 5.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	11	10.0	6700	2.4	810	< 0.2		15	< 1.0	< 1.0	< 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	< 1.0	< 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	576	0.45	130	< 0.2	< 5.0	6.4	< 1.0	< 0.3	< 1.0	< 10.0	< 5.0
Max	11	10.0	6700	2.4	810	< 0.4	< 5.0	15	< 20.0	< 5.0	< 1.0	< 10.0	19
Median	4.4	5.1	1475	< 1.0	260	< 0.2	< 5.0	7.3	< 1.0	< 1.0	< 1.0	< 10.0	9.7
Mean	4.2	5.1	1896	1.0	344	0.1	< 5.0	8.6	1.2	0.4	< 1.0	< 10.0	9.5

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.

DRAFT

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

Date	Organics														
	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlrobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
	µg/L														
4/16/2012															
5/9/2012															
5/29/2012															
6/4/2012															
6/28/2012	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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															
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Organics														
Date	Acrolein	Acrylonitrile	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
	µg/L														
4/16/2012				< 0.5	< 0.5				< 0.5			< 0.5			
5/9/2012															
5/29/2012				< 0.5	< 0.5				< 0.5			< 0.5			
6/4/2012															
6/28/2012	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 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			
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	1	1	1	4	4	1	1	1	4	1	1	4	1	1	1
Min	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Organics															
Date	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	n-Propylbenzene	o-Xylene	sec-butylbenzene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Vinyl chloride
	µg/L	mg/L	µg/L													
4/16/2012		< 0.1														
5/9/2012																
5/29/2012		< 0.1														
6/4/2012																
6/28/2012	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 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		< 0.1														
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
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	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Field Data					Bacteria	General Chemistry						
Date	Dissolved Oxygen mg/L	pH	Water Temperature °C	Turbidity ntu	Specific Conductivity µS/cm	*E. coli* MPN	Boron µg/L	Chloride mg/L	Fluoride mg/L	Perchlorate mg/L	Sodium mg/L	Sulfate mg/L	Total Dissolved Solids mg/L
4/16/2012	14.2	8.37	18.2	29.0	1159		510				446		
5/9/2012	6.8	8.66	23.1	53.1	1912								
5/29/2012	5.7	7.92	19.8	70.8	689		295				194		
6/4/2012	8.4		22.8	14.1	718								
6/7/2012		8.20											
6/28/2012	10.1	7.98	22.6	37.0	1100		600				160		
7/10/2012	5.6	7.66	26.0	31.7	889								
7/24/2012	6.4	7.65	26.1	23.6	853		410				96		
8/15/2012	6.5	7.73	25.8	34.7	727	31.5							
8/28/2012	7.5	7.87	21.6	86.3	733	52.1	271				75		
9/11/2012	6.1	7.85	20.8	24.6	810	24.1							
9/25/2012	7.0	8.03	21.1	43.9	704	40.2	240	20	0.43	< 4.0	75	45	410
10/9/2012	10.8	7.14	14.8	22.7	875	12.2							
10/25/2012	9.3	7.93	14.2	31.6	722			30			75	94	460
11/13/2012	7.3	7.74	11.6	25.3	724	24.3							
11/29/2012	9.1	7.79	11.9	21.4	646		210	23			65	83	452
12/11/2012	6.8	7.49	10.9	20.3	542	48.7							
12/26/2012	8.2	7.68	8.3	168.0	399		130				38		
1/8/2013	10.2	7.82	7.8	25.8	781	37.9							
1/29/2013	11.4	7.90	7.4	31.2	1225		340	49	0.54	< 8.0	170	270	790
2/12/2013	8.2	8.01	8.6	111.0	976	40.2							
2/28/2013	18.4	8.37	14.7	53.0	2049		520	88			290	570	1300
3/12/2013	12.4	8.13	11.4	84.5	1350	461.1							
3/27/2013	8.7	7.91	12.2	94.4	1571		360	100	0.39	< 2.0	180	360	1000
4/24/2013	8.4	8.36	10.9	30.5	1470	31.8	450	83	0.49		200	330	940
5/20/2013	7.7	7.72	20.8	38.3	839	35.0	430	29	0.65		110	160	520
6/6/2013	5.5	7.90	22.7		899								
6/18/2013	5.2	7.69	22.2	28.6	811	6.3	380	20	0.73	< 2.0	99	97	480
7/2/2013	8.0	8.00	30.5		755								
7/24/2013		7.05	25.7	31.1	680	38.8	380	13	0.36		67	46	390
8/9/2013	5.9	7.80	27.4		664								
8/27/2013	5.7	7.71	22.7	45.9	760	27.5	340	21	0.33		83	42	460
9/5/2013	7.3	7.90	25.1		706								
9/24/2013		8.21	19.5	57.8	896	57.6	320	33	0.37	< 2.0	110	97	520
Count	31	33	33	29	33	16	17	12	9	5	18	12	12
Min	5.2	7.05	7.4	14.1	399	6.3	130	13	0.33	< 2.0	38	42	390
Max	18.4	8.66	30.5	168.0	2049	461.1	600	100	0.73	< 8.0	446	570	1300
Median	7.7	7.90	20.8	31.7	810	36.5	360	30	0.43	< 2.0	105	97	500
Mean	8.3	7.88	18.5	47.2	928	60.6	364	42	0.48	0.9	141	183	644

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.

DRAFT

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	0.19	< 0.15					1060		< 10.0			
5/9/2012												
5/29/2012	0.21	< 0.15					3830		< 10.0			
6/4/2012												
6/7/2012												
6/28/2012	< 0.11						620		9.6			
7/10/2012												
7/24/2012							357		< 10.0			
8/15/2012												
8/28/2012	0.22						840		< 10.0			
9/11/2012												
9/25/2012	< 0.11		< 50.0		25.1	< 10.0	1600	< 5.0	7.2	77	< 1.0	< 1.0
10/9/2012												
10/25/2012	0.31											
11/13/2012												
11/29/2012	< 0.05											
12/11/2012												
12/26/2012	0.46											
1/8/2013												
1/29/2013	< 0.66		< 5.0		11.0	< 1.0	1000	< 0.5		82	< 0.5	< 0.25
2/12/2013												
2/28/2013	< 1.1											
3/12/2013												
3/27/2013	< 0.66		< 5.0		< 10.0	190.0	2700	< 0.5		130	< 0.5	< 0.25
4/24/2013	0.31			11					11.0			
5/20/2013	< 0.18			6					6.4			
6/6/2013												
6/18/2013	< 0.44		< 5.0	11	13.0	1.6	920	< 0.5	12.0	80	< 0.5	< 0.25
7/2/2013												
7/24/2013	< 0.22			7					8.0			
8/9/2013												
8/27/2013	< 0.44			7					10.0			
9/5/2013												
9/24/2013	0.46		< 5.0	9.5	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	357	< 0.5	6.4	77	< 0.5	< 0.25
Max	< 1.1	< 0.15	< 50.0	11	25.1	190.0	3830	< 5.0	12.0	130	< 1.0	< 1.0
Median	0.31	< 0.15	< 5.0	8.25	13.0	1.6	1030	< 0.5	< 10.0	82	< 0.5	< 0.25
Mean	0.24	< 0.15	3.5	8.6	13.3	38.9	1433	0.4	6.9	90	0.2	0.1

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.

DRAFT

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			1460		1110								
5/9/2012													
5/29/2012			4040		406								
6/4/2012													
6/7/2012													
6/28/2012			1300		430								
7/10/2012													
7/24/2012			565		286								
8/15/2012													
8/28/2012			892		137								
9/11/2012													
9/25/2012	< 5.0	< 5.0	2300	< 1.0	180	< 0.2	< 5.0	8.5	< 20.0	< 5.0	< 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	< 1.0	< 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	< 1.0	< 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	< 1.0	< 1.0	< 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	565	0.56	137	< 0.2	< 5.0	6.9	< 1.0	< 0.3	< 1.0	11.0	< 5.0
Max	7.6	7.8	4700	1.7	1110	< 0.4	< 5.0	11	< 20.0	< 5.0	< 1.0	11.0	11
Median	3.8	4.4	1600	< 1.0	398	< 0.2	< 5.0	8	< 1.0	< 1.0	< 1.0	11.0	5.6
Mean	3.6	4.3	2036	0.9	452	0.1	< 5.0	8.3	4.2	0.4	< 1.0	11.0	5.0

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.

DRAFT

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

	Organics														
Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlrobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
	µg/L														
4/16/2012															
5/9/2012															
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	< 10.0	< 5.0	< 2.0	< 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															
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Organics														
Date	Acrolein	Acrylonitrile	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
	µg/L														
4/16/2012				< 0.5	< 0.5				< 0.5			< 0.5			
5/9/2012															
5/29/2012				< 0.5	< 0.5				< 0.5			< 0.5			
6/4/2012															
6/7/2012															
6/28/2012	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 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			
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	1	1	1	4	4	1	1	1	4	1	1	4	1	1	1
Min	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Organics															
	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	n-Propylbenzene	o-Xylene	sec-butylbenzene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Vinyl chloride
Date	µg/L	mg/L	µg/L													
4/16/2012		< 0.1														
5/9/2012																
5/29/2012		< 0.1														
6/4/2012																
6/7/2012																
6/28/2012	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 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		< 0.1														
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
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	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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.

DRAFT

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

	Field Data					Bacteria	General Chemistry						
Date	Dissolved Oxygen mg/L	pH	Water Temperature °C	Turbidity ntu	Specific Conductivity µS/cm	*E. coli* MPN	Boron µg/L	Chloride mg/L	Fluoride mg/L	Perchlorate mg/L	Sodium mg/L	Sulfate mg/L	Total Dissolved Solids mg/L
4/16/2012	7.9	7.96	18.8	22.1	898		380				170		
5/9/2012	12.6	8.43	26.6	9.4	972								
5/29/2012	8.0	8.10	21.7	58.9	864		328				309		
6/4/2012	7.2			30.8	1240								
6/7/2012		8.30	23.4										
6/28/2012	4.6	7.64	26.5	22.1	1324		730				210		
7/10/2012	5.8	7.54	23.9	32.4	1107								
7/24/2012	5.5	7.46	24.0	9.2	1023		518				152		
8/15/2012	5.5	7.54	24.3	50.4	1054	14.6							
8/28/2012	5.7	7.59	18.9	39.0	978	37.9	384				126		
9/11/2012	5.5	7.72	17.3	54.6	1314	17.9							
9/25/2012	7.7	7.93	22.8	78.7	856	4.1	400	66	0.55	< 4.0	150	40	500
10/9/2012	8.5	7.45	21.0	19.8	810	8.5							
10/25/2012	9.0		16.4	16.0	745			67			140	35	540
11/13/2012	8.9	7.93	13.7	19.6	2081	58.6							
11/29/2012	6.2	7.69	12.6	42.6	856		290	57			120	120	581
12/11/2012	8.0	7.53	10.9	41.0	848	51.2							
12/26/2012	8.6	7.67	9.4	134.0	701		260				98		
1/8/2013	11.1	7.81	9.9	28.8	640	18.3							
1/29/2013	11.0	7.87	11.0	9.5	998		560	72	0.64	< 4.0	210	230	860
2/12/2013	9.6	7.85	6.0	66.2	957	39.9							
2/28/2013	4.1	7.91	12.1	27.2	2480		850	110			440	740	1700
3/27/2013	8.3	7.83	15.0	28.7	918		430	71	0.57	< 20.0	140	51	560
4/24/2013	7.8	8.09	17.8	24.4	1055	85.7	530	95	0.61		180	66	660
5/20/2013	10.9	8.13	19.7	7.5	1047	56.7	440	64	0.59		170	190	700
6/6/2013	6.5	8.10	21.9		1543								
6/18/2013	7.2	7.63	22.0	5.0	1022	5.2	510	55	0.75	< 40.0	160	130	700
7/2/2013	3.7	7.20	29.0		917								
7/24/2013		7.06	24.2	48.0	832	9.6	480	26	0.44		100	58	520
8/9/2013	5.6	7.50	21.6		823								
8/27/2013	5.9	7.65	20.9	26.3	1020	8.5	510	53	0.39		150	94	630
9/5/2013	6.1	7.80	22.5		1109								
9/24/2013		7.94	21.8	33.3	767	> 2419.6	420		0.28	< 20.0	140	50	550
9/27/2013								75					
Count	30	31	32	28	32	15	17	12	9	5	18	12	12
Min	3.7	7.06	6.0	5.0	640	4.1	260	26	0.28	< 4.0	98	35	500
Max	12.6	8.43	29.0	134.0	2480	> 2419.6	850	110	0.75	< 40.0	440	740	1700
Median	7.5	7.80	20.9	28.8	975	18.3	440	67	0.57	< 20.0	151	80	606
Mean	7.4	7.77	19.0	35.2	1056	189.1	472	68	0.54	4.4	176	150	708

NOTE: Values reported as <##, < Reporting Limit was used.

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For summary calculations, one fourth of any < (less than) values were used.

Reporting Limit values vary between labs.

DRAFT

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	16.6	< 0.15					812		< 10.0			
5/9/2012												
5/29/2012	1.76	< 0.15					3110		< 10.0			
6/4/2012												
6/7/2012												
6/28/2012	2.28						500		9.1			
7/10/2012												
7/24/2012							188		< 10.0			
8/15/2012												
8/28/2012	3.75						779		10.4			
9/11/2012												
9/25/2012	23.82		< 50.0		92.2	21.8	520	< 5.0	4.9	34	< 1.0	< 1.0
10/9/2012												
10/25/2012	26.1											
11/13/2012												
11/29/2012	3.1											
12/11/2012												
12/26/2012	6.16											
1/8/2013												
1/29/2013	16		6.2		30.0	180.0	300	< 0.5		58	< 0.5	< 0.25
2/12/2013												
2/28/2013	5											
3/27/2013	25		< 5.0		< 10.0	120.0	650	< 0.5		41	< 0.5	< 0.25
4/24/2013	24			3.3					3.6			
5/20/2013	5			4.1					4.8			
6/6/2013												
6/18/2013	12		5.8	7.3	32.0	23.0	190	< 0.5	8.8	60	< 0.5	< 0.25
7/2/2013												
7/24/2013	3.6			11					13.0			
8/9/2013												
8/27/2013	11			9.2					13.0			
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	1.76	< 0.15	< 5.0	3.3	< 10.0	1.4	188	< 0.5	3.6	34	< 0.5	< 0.25
Max	27	< 0.15	< 50.0	11	92.2	180.0	3110	< 5.0	13.0	60	< 1.0	< 1.0
Median	11	< 0.15	6.2	5.7	30.0	23.0	585	< 0.5	9.6	51	< 0.5	< 0.25
Mean	12.48	< 0.15	7.0	6.4	37.1	69.2	804	0.4	6.6	49	0.2	0.1

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.

DRAFT

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			1180		189								
5/9/2012													
5/29/2012			2790		199								
6/4/2012													
6/7/2012													
6/28/2012			1000		180								
7/10/2012													
7/24/2012			257		133								
8/15/2012													
8/28/2012			837		167								
9/11/2012													
9/25/2012	< 5.0	< 5.0	690	< 1.0	35	< 0.2	< 5.0	< 5.0	< 20.0	< 5.0	< 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	< 1.0	< 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	< 1.0	< 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	< 1.0	< 1.0	< 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	257	0.15	35	< 0.2	< 5.0	3.7	< 1.0	< 0.3	< 1.0	< 10.0	15
Max	< 5.0	6.7	2790	< 1.0	310	< 0.4	< 5.0	6	< 20.0	< 5.0	< 1.0	< 10.0	29
Median	2.1	5.0	919	0.58	169	< 0.2	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 10.0	27
Mean	1.6	4.6	998	0.4	155	0.1	< 5.0	4.2	4.2	0.4	< 1.0	< 10.0	23.8

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Reporting Limit values vary between labs.

DRAFT

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

Date	Organics														
	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlorobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
	µg/L														
4/16/2012															
5/9/2012															
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	< 10.0	< 5.0	< 2.0	< 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															
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

NOTE: Values reported as <##, < Reporting Limit was used.

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Reporting Limit values vary between labs.

DRAFT

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

Date	Organics														
	Acrolein	Acrylonitrile	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
	µg/L														
4/16/2012				< 0.5	< 0.5				< 0.5			< 0.5			
5/9/2012															
5/29/2012				< 0.5	< 0.5				< 0.5			< 0.5			
6/4/2012															
6/7/2012															
6/28/2012	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 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			
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	1	1	1	4	4	1	1	1	4	1	1	4	1	1	1
Min	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

NOTE: Values reported as <##, < Reporting Limit was used.

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DRAFT

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

	Organics															
	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	n-Propylbenzene	o-Xylene	sec-butylbenzene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Vinyl chloride
Date	µg/L	mg/L	µg/L													
4/16/2012		< 0.1														
5/9/2012																
5/29/2012		< 0.1														
6/4/2012																
6/7/2012																
6/28/2012	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 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		< 0.1														
9/11/2012																
9/25/2012																
10/9/2012																
10/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
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	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

NOTE: Values reported as <##, < Reporting Limit was used.
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DRAFT

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

	Field Data					Bacteria	General Chemistry						
	Dissolved Oxygen	pH	Water Temperature	Turbidity	Specific Conductivity	*E. coli*	Boron	Chloride	Fluoride	Perchlorate	Sodium	Sulfate	Total Dissolved Solids
Date	mg/L		°C	ntu	µS/cm	MPN	µg/L	mg/L					
4/16/2012	7.9	7.96	18.8	22.1	898		380				170		
5/9/2012	12.6	8.43	26.6	9.4	972								
5/29/2012	8.0	8.10	21.7	58.9	864		328				309		
6/4/2012	7.2			30.8	1240								
6/7/2012		8.30	23.4										
6/28/2012	4.6	7.64	26.5	22.1	1324		730				210		
7/10/2012	5.8	7.54	23.9	32.4	1107								
7/24/2012	5.5	7.46	24.0	9.2	1023		518				152		
8/15/2012	5.5	7.54	24.3	50.4	1054	14.6							
8/28/2012	5.7	7.59	18.9	39.0	978	37.9	384				126		
9/11/2012	5.5	7.72	17.3	54.6	1314	17.9							
9/25/2012	7.7	7.93	22.8	78.7	856	4.1	400	66	0.55	< 4.0	150	40	500
10/9/2012	8.5	7.45	21.0	19.8	810	8.5							
10/25/2012	9.0		16.4	16.0	745			67			140	35	540
11/13/2012	8.9	7.93	13.7	19.6	2081	58.6							
11/29/2012	6.2	7.69	12.6	42.6	856		290	57			120	120	581
12/11/2012	8.0	7.53	10.9	41.0	848	51.2							
12/26/2012	8.6	7.67	9.4	134.0	701		260				98		
1/8/2013	11.1	7.81	9.9	28.8	640	18.3							
1/29/2013	11.0	7.87	11.0	9.5	998		560	72	0.64	< 4.0	210	230	860
2/12/2013	9.6	7.85	6.0	66.2	957	39.9							
2/28/2013	4.1	7.91	12.1	27.2	2480		850	110			440	740	1700
3/27/2013	8.3	7.83	15.0	28.7	918		430	71	0.57	< 20.0	140	51	560
4/24/2013	7.8	8.09	17.8	24.4	1055	85.7	530	95	0.61		180	66	660
5/20/2013	10.9	8.13	19.7	7.5	1047	56.7	440	64	0.59		170	190	700
6/6/2013	6.5	8.10	21.9		1543								
6/18/2013	7.2	7.63	22.0	5.0	1022	5.2	510	55	0.75	< 40.0	160	130	700
7/2/2013	3.7	7.20	29.0		917								
7/24/2013		7.06	24.2	48.0	832	9.6	480	26	0.44		100	58	520
8/9/2013	5.6	7.50	21.6		823								
8/27/2013	5.9	7.65	20.9	26.3	1020	8.5	510	53	0.39		150	94	630
9/5/2013	6.1	7.80	22.5		1109								
9/24/2013		7.94	21.8	33.3	767	> 2419.6	420		0.28	< 20.0	140	50	550
9/27/2013								75					
Count	30	31	32	28	32	15	17	12	9	5	18	12	12
Min	3.7	7.06	6.0	5.0	640	4.1	260	26	0.28	< 4.0	98	35	500
Max	12.6	8.43	29.0	134.0	2480	> 2419.6	850	110	0.75	< 40.0	440	740	1700
Median	7.5	7.80	20.9	28.8	975	18.3	440	67	0.57	< 20.0	151	80	606
Mean	7.4	7.77	19.0	35.2	1056	189.1	472	68	0.54	4.4	176	150	708

NOTE: Values reported as <##, < Reporting Limit was used.

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For summary calculations, one fourth of any < (less than) values were used.

Reporting Limit values vary between labs.

DRAFT

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					5840		< 10.0			
5/9/2012												
5/29/2012	< 0.11	< 0.15					8120		< 10.0			
6/4/2012												
6/7/2012												
6/28/2012	< 0.11						510		9.7			
7/10/2012												
7/24/2012							298		14.0			
8/15/2012												
8/28/2012	< 0.11						383		13.8			
9/11/2012												
9/25/2012	< 0.11		< 50.0		44.3	457.0	2400	< 5.0	41.0	75	< 1.0	< 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		27.0		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	30.0	65	< 0.5	< 0.25
7/2/2013												
7/24/2013	< 0.44			10					11.0			
8/9/2013												
8/27/2013	< 0.44			11					15.0			
9/5/2013												
9/24/2013	< 0.22		16.0	14	62.0	3.5	2100	0.7	12.0	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	3.5	298	< 0.5	5.5	65	< 0.5	< 0.25
Max	< 1.1	< 0.15	< 50.0	25	62.0	457.0	8120	< 5.0	41.0	83	< 1.0	< 1.0
Median	0.23	< 0.15	16.0	11	42.0	300.0	1360	< 0.5	12.0	75	< 0.5	< 0.25
Mean	0.21	< 0.15	13.0	13.1	38.7	252.1	2524	0.5	14.3	76	0.2	0.1

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.

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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			8490		1020								
5/9/2012													
5/29/2012			7370		314								
6/4/2012													
6/7/2012													
6/28/2012			1100		200								
7/10/2012													
7/24/2012			483		154								
8/15/2012													
8/28/2012			437		149								
9/11/2012													
9/25/2012	6.7	8.3	3400	1.2	860	< 0.2	< 5.0	13	< 20.0	< 5.0	< 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	< 1.0	< 1.0		< 5.0
2/12/2013													
2/28/2013													
3/12/2013													
3/27/2013	11	11.0	6500	3.1	690	< 0.2		15	< 1.0	< 1.0	< 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	< 1.0	< 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	437	0.39	149	< 0.2	< 5.0	6.5	< 1.0	< 0.3	< 1.0	21.0	< 5
Max	11	11.0	8490	3.1	1300	< 0.4	< 5.0	15	< 20.0	< 5.0	< 1.0	21.0	15
Median	5.9	8.1	1900	1.2	470	< 0.2	< 5.0	12	< 1.0	< 1.0	< 1.0	21.0	8.8
Mean	5.4	7.0	3278	1.3	563	0.1	< 5.0	11.0	4.2	0.4	< 1.0	21.0	7.2

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Reporting Limit values vary between labs.

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

Date	Organics														
	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane (TCA)	1,1-Dichloroethane	1,1-Dichloroethene	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-Dichloroethane (1,2-DCA)	1,2-Dichloropropane	1,2-Dichlrobenzene	1,3,5-Trimethylbenzene	1,3-dichlorobenzene	1,4-dichlorobenzene
	µg/L														
4/16/2012															
5/9/2012															
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	< 10.0	< 5.0	< 2.0	< 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															
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															
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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 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	< 10.0	< 5.0	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

NOTE: Values reported as <##, < Reporting Limit was used.
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Reporting Limit values vary between labs.

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

	Organics														
Date	Acrolein	Acrylonitrile	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
	µg/L														
4/16/2012				< 0.5	< 0.5				< 0.5			< 0.5			
5/9/2012															
5/29/2012				< 0.5	< 0.5				< 0.5			< 0.5			
6/4/2012															
6/7/2012															
6/28/2012	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 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			
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															
3/12/2013															
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	1	1	1	4	4	1	1	1	4	1	1	4	1	1	1
Min	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 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	< 10.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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

	Organics															
	m,p-Xylene	MBAs	Methylene chloride	Methyl-tert-Butyl Ether (MTBE)	Naphthalene	n-butylbenzene	n-Propylbenzene	o-Xylene	sec-butylbenzene	tert-Butylbenzene	Tetrachloroethene (PCE)	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene (TCE)	Vinyl chloride
Date	µg/L	mg/L	µg/L													
4/16/2012		< 0.1														
5/9/2012																
5/29/2012		< 0.1														
6/4/2012																
6/7/2012																
6/28/2012	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 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		< 0.1														
9/11/2012																
9/25/2012																
11/13/2012																
11/29/2012																
12/11/2012																
12/26/2012																
1/8/2013																
1/29/2013																
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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	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Min	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Max	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Median	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Mean	< 0.5	< 0.1	< 1.0	< 1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 10.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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DRAFT