Application

Kennecott
Eagle Minerals

Humboldt Mill

Mining Permit Application
Volume IIH

Environmental Impact Assessment
Appendix I *continued* (2 of 4)

Project I.D.: 06W003

Kennecott Eagle Minerals Company
Ishpeming, Michigan

December 2008

Foth

Appendix E

2008 Groundwater Database

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	HMP-004	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMS-001	HMS-002	HMS-003	HMS-004	HMS-005	HMS-006	HMS-007	HW-1	HW-1A	HW-1A	HW-2	HW-2	HW-3	HW-4	HW-4	HW-5	HW-5	HW-5A	HW-5A	HW-6	HW-6	HW-6A	HYG-1	KMW-1	KMW-10	KMW-10
				HMP-004	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMS-001	HMS-002	HMS-003	HMS-004	HMS-005	HMS-006	HMS-007	HW-1	HW-1A	Dup	HW-2	Dup	HW-3	HW-4	Dup	HW-5	Dup	HW-5A	Dup	HW-6	Dup	HW-6A	HYG-1	KMW-1	KMW-10	Dup
3/11/2008	**Field Measurement**																																		
	Depth to Water	ft	Tier 1	f	f	f	f	f	f	f	f	f	f	f	f	f	6.55	6.52		8.98		36.04	30.06		6.92		6.99		4.6		4	8.22	9.42	8.25	
	Dissolved Oxygen	mg/L	Tier 1														<0.005	6.5		0.25		<0.05	<0.005		<0.005		7.5		0.1		<0.005	3.79		<0.005	
	GW Elevation	ft msl	Tier 1	f	f	f	f	f	f	f	f	f	f	f	f	f	1535.31	1535.3		1536.01		1548.81	1551.96		1536.11		1536.31		1533.03		1533.58	1535.21	1579.33	1588.67	
	ORP	mV	Tier 1														-40	-24		-118		104	30		-151		-33		-140		-167	30		-34	
	pH	S.U.	Tier 1														7.3	7.54		7.65		NM	NM		7.64		7.5		7.6		7.45	7.3		NM	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1														502	553		530		167	548		554		526		503		523	514		201	
	Temperature	Celcius	Tier 1														9	9.25		6.17		7.7	6.6		7.79		6.69		7		8.82	10.9		4.8	
	Turbidity	NTU	Tier 1														28	<1		23		145	<1		29		29		2		NM	<1		<1	
	Metal																																		
	Aluminum	ug/L	Tier 1														15.1 J	5.2 J		8.2 J		192	6.4 J	5 J	9.1 J		<4.4 U		17.8 J	5.1 J	8.3 J	4.8 J		113	136
	Antimony	ug/L	Tier 1														<0.10 U	8.6		7.5		0.11 J	<0.10 U	0.1 J	<0.10 U		10.4		<0.10 U	8.2	8.0	11.7		<0.10 U	<0.10 U
	Arsenic	ug/L	Tier 1														1.5	0.32 J		0.38 J		0.81 J	3.9	4.2	6.3		0.23 J		3.6	0.21 J	0.29 J	0.27 J		4.0	3.8
	Barium	ug/L	Tier 1														14.4	78.9		15		13.3	148	158	113		52.2		36.6	42.9	43.5	55.9		17.5	17.4
	Beryllium	ug/L	Tier 1														<0.070 U	<0.070 U		<0.070 U		0.21 J	<0.070 U	<0.070 U	<0.070 U		<0.070 U		<0.070 U	<0.070 U	<0.070 U	<0.070 U		<0.070 U	<0.070 U
	Boron	ug/L	Tier 1														92	47.7		69.9		10.3	74.2	79	91.5		52.9		74.4	110	114	51.2		50.7	46.7
	Cadmium	ug/L	Tier 1														<0.098 U	<0.098 U		<0.098 U		0.21 J	0.11 J	<0.098 U	<0.098 U		<0.098 U		<0.098 U	<0.098 U	<0.098 U	<0.098 U		<0.098 U	<0.098 U
	Calcium	ug/L	Tier 1														55100	59600		57900		5970	57000	54500	62000		51800		66000	48800	51200	53000		19300	18200
	Chromium	ug/L	Tier 1														8.2	<0.43 U		<0.43 U		<0.43 U	0.55 J	0.58 J	<0.43 U		<0.43 U		<0.43 U	2.8	2.3	<0.43 U		0.67 J	<0.43 U
	Cobalt	ug/L	Tier 1														4.1	2.5		2.1		11	0.09 J	0.1 J	0.48 J		2.9		0.46 J	1.4	1.5	2.6		3	3.1
	Copper	ug/L	Tier 1														4.0	1.2		0.5 J		13.6	0.24 J	0.26 J	0.26 J		0.98 J		0.4 J	1.1	1.2	1.8		2.1	2.1
	Cyanide	mg/L	Tier 1														<0.0060 U	0.015 J		0.019 J		<0.0060 U	0.015 J	0.016 J	0.021		0.018 J		0.019 J	0.023	0.022	0.016 J		<0.0060 U	<0.0060 U
	Iron	ug/L	Tier 1														5240	5060		1400		1610	27600	29300	5950		3180		2300	1320	1320	116		5620	5850
	Lead	ug/L	Tier 1														<0.044 U	0.06 J		<0.044 U		0.05 J	2.4	2.6	0.08 J		<0.044 U		0.06 J	0.08 J	0.08 J	0.08 J		0.12 J	0.11 J
	Lithium	ug/L	Tier 1														2.3	<0.085 U		0.74 J		1.9	2.3	2.6	3.2		<0.085 U		4.1	0.12 J	<0.085 U	<0.085 U		1.8	1.7
	Magnesium	ug/L	Tier 1														20700	25800		23400		2660	26700	26700	24200		23400		20800	23900	24900	21600		10100	9970
	Manganese	ug/L	Tier 1														415	31.7		308		47.2	874	929	431		19.8		319	35.3	37.8	0.68 J		1580	1550
	Mercury - low level	ng/L	Tier 1														0.758	0.803		1.44		0.21 J	0.416 J	0.495 J	0.223 J		0.666		0.276 J	0.812	0.717	0.934		0.771	0.577
	Molybdenum	ug/L	Tier 1														4.8 J	7.8 J		8.3 J		0.12 J	0.46 J	1.2 J	14.6		10.6		3.8 J	11.1	10.9	11.1		2.2 J	2 J
	Nickel	ug/L	Tier 1														9.7	0.59 J		0.89 J		38.9	0.27 J	0.3 J	0.53 J		25.6		0.58 J	1.2	<0.074 U	0.57 J		2.1	1.9
	Potassium	ug/L	Tier 1														3380	8840		5720		1670	5570	5950	7680		9540		3440	8220	8120	9280		3080	2860
	Selenium	ug/L	Tier 1														0.32 J	0.28 J		0.26 J		<0.15 U	<0.15 U	0.22 J	0.16 J		0.25 J		<0.15 U	<0.15 U	0.51 J	<0.15 U		<0.15 U	0.54 J
	Silver	ug/L	Tier 1														<0.11 U	<0.11 U		<0.11 U		<0.11 U	<0.11 U	<0.11 U	<0.11 U		<0.11 U		<0.11 U	<0.11 U	<0.11 U	<0.11 U		<0.11 U	<0.11 U
	Sodium	ug/L	Tier 1														12700	12000		12400		16200	4590	4830	14600		11800		15600	14300	14000	11500		1150	1220
	Thallium	ug/L	Tier 1														<0.030 U	<0.030 U		<0.030 U		0.03 J	<0.030 U	<0.030 U	<0.030 U		<0.030 U		<0.030 U	<0.030 U	<0.030 U	<0.030 U		<0.030 U	<0.030 U
	Total Hardness	ug/L	Tier 1														223000	255000		241000		25900	252000	246000	255000		226000		250000	220000	230000	221000		89700	86500
	Vanadium	ug/L	Tier 1														<0.41 U	0.74 J		<0.41 U		1.0	1.2	1.3	<0.41 U		0.56 J		<0.41 U	0.43 J	0.47 J	0.76 J		0.68 J	0.7 J
	Zinc	ug/L	Tier 1														7.3 J	6.2 J		6.3 J		16.3	5.6 J	6.9 J	5.1 J		7.3 J		5.7 J	3.6 J	6.4 J	7 J		5 J	4.4 J
	Inorganics																																		
	Bicarbonate Alkalinity	mg/L	Tier 1														122	111		118		4.4 J	256	258	127		104		147	111	109	102		77.7	77.7
	Carbonate Alkalinity	mg/L	Tier 1														<3.2 U	<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U
	Chloride	mg/L	Tier 1														12.2	14.2		12.7		17.8	6.5	6.5	13.5		12.4		12.9	11.8	11.9	12.1		2.5 J	2.5 J
	Fluoride	mg/L	Tier 1														0.26 J	0.39 J		0.3 J		0.27 J	0.24 J	0.24 J	0.27 J		0.29 J		0.24 J	0.3 J	0.3 J	0.32 J		0.45 J	0.45 J
	Nitrogen, Ammonia	mg/L	Tier 1														<0.50 U	<0.50 U		<0.50 U		<0.50 U	1.1	1.2	<0.50 U		<0.50 U		<0.50 U	<0.50 U	<0.50 U	<0.50 U		<0.50 U	<0.50 U
	Nitrogen, Nitrate	mg/L	Tier 1														0.71	1.8		1.1		<0.085 U	<0.085 U	<0.085 U	<0.085 U		1.9		<0.085 U	1.1	1.1	1.6		0.15 J	0.15 J
	Nitrogen, Nitrite	mg/L	Tier 1														<0.036 U	<0.036 U		0.11		<0.036 U	<0.036 U	<0.036 U	<0.036 U		<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U		<0.036 U	<0.036 U
	Sulfate	mg/L	Tier 1														125	146		139		36.3	6.1	6.1	137		138		111	127	129	136		18	17.8
	Sulfide	mg/L	Tier 1														<2.3 U	<2.3 U		<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U		<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U		<2.3 U	<2.3 U
	Total Alkalinity	mg/L	Tier 1														122	111		118		4.4 J	256	258	127		104		147	111	109	102		77.7	77.7
	VOC																																		
	Benzene	ug/L	Tier 1																																
	Ethylbenzene	ug/l	Tier 1																																
	Toluene	ug/L	Tier 1																																
	Xylenes, m + p	ug/L	Tier 1																																
	xylenes, o	ug/L	Tier 1																																
5/20/2008	**Field Measurement**																																		
	Conductivity	mmhos	Tier 1														327	325		318		90	319		348		323		357		325	340		81	
	Depth to Water	ft	Tier 1	1.98	1.6	4.14	1.05	1.43	1.98	3.4	2.77	3.11	3.13	1.97	2.38	4.6	5.83	5.87		8.56		34.89	28.49		6.16		6.25		3.71		3.34	7.59			
	Dissolved Oxygen	mg/L	Tier 1														<0.05	8.94		0.4		<0.05	<0.05		<0.05		7.43		<0.05		<0.05	7.47		1.28	
	GW Elevation	ft msl	Tier 1	1533.15	1543.51	1748.38	1571.99	1537.35	1534.57	1601	1592.52	1591.08	1590.91	1589.7	1585.62	1579.6	1536.03	1535.95		1536.43		1549.96	1553.53		1536.87		1537.05		1533.92		1534.24	1535.84			
	ORP	mV	Tier 1														-78.6	5.7		-116.7		12.8	-159.5		-185.3		-27.8		-225.4		-162.9	86.8		-62.6	
	pH	S.U.	Tier 1														7.19	8.41		7.66		5.64	7.22		7.77		NM		NM		7.84	NM		6.56	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1														474	525		508		133	501		516		524		513		481	531		125	
	Temperature	Celcius	Tier 1														8.8	5.06		5.78		7.97	6.82		8.17		4.91		9.08		7.94	6.19		6.76	
	Turbidity	NTU	Tier 1														32.4	20		18.7		1.33	1.68		10.8		31.2		8.6		13.6	<1		2.2	
	Metal																																		
	Aluminum	ug/L	Tier 1														356	<10.0 U	<10.0 U	<10.0 U		142	<10.0 U		<10.0 U		<10.0 U		<10.0 U		<10.0 U	<10.0 U		239	
	Antimony	ug/L	Tier 1														<0.25 U	6.4	6.1	6.5		<0.25 U	<0.25 U		<0.25 U		9.3		<0.25 U		9.6	8.6		<0.25 U	
	Arsenic	ug/L	Tier 1														1.0	<0.50 U	<0.50 U	<0.50 U		0.58 J	3.4		5.9		<0.50 U		3.7		<0.50 U	<0.50 U		3.0	
	Barium	ug/L	Tier 1														17.1	52.4	50.9	16.3		8.9	136		99.4		48.1		33.8		52.2	52.6		12.1	
	Beryllium	ug/L	Tier 1														<0.50 U	<0.50 U	<0.50 U	<0.50 U		<0.50 U	<0.50 U		<0.50 U		<0.50 U		<0.50 U		<0.50 U	<0.50 U		<0.50 U	
	Boron	ug/L	Tier 1														87.3	60.6	57	65.8		9.1 J	64.4		91.8		72.4		66.3		111	44.7		40.8	
	Cadmium	ug/L	Tier 1														<0.25 U	<0.25 U	<0.25 U	<0.25 U		<0.25 U	<0.25 U		<0.25 U		<0.25 U		<0.25 U		<0.25 U	<0.25 U		<0.25 U	
	Calcium	ug/L	Tier 1														52300	49300	47200	55000		3650	46600		55000		48800		57700		47400	53200		10200	
	Chromium	ug/L	Tier 1														1.5 J	<1.2 U	<1.2 U	<1.2 U		<1.2 U	<1.2 U		<1.2 U		<1.2 U		<1.2 U		<1.2 U	<1.2 U		<1.2 U	
	Cobalt	ug/L	Tier 1														2.2	3.4	3.2	2.5		6.0	<0.25 U		0.51		3.4		0.43 J		1.8	3.3		2.3	
	Copper	ug/L	Tier 1														1.7	1.1	0.91 J	0.66 J		9.3	<0.50 U		<0.50 U		0.97 J		<0.50 U		2.5	1.0		2.2	
	Cyanide	mg/L	Tier 1														<0.0060 U	0.011 J	<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U		0.0085 J		0.0086 J		<0.0060 U		<0.0060 U	<0.0060 U		<0.0060 U	
	Iron	ug/L	Tier 1														4700	2360	2080	2700		1930	26700		5830		3750		2220		1950	<125 U		3510	

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	HMP-004	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMS-001	HMS-002	HMS-003	HMS-004	HMS-005	HMS-006	HMS-007	HW-1	HW-1A	HW-1A	HW-2	HW-2	HW-3	HW-4	HW-4	HW-5	HW-5	HW-5A	HW-5A	HW-6	HW-6	HW-6A	HYG-1	KMW-1	KMW-10	KMW-10
	Lead	ug/L	Tier 1														0.26 J	<0.25 U	<0.25 U	<0.25 U		<0.25 U	5.9		<0.25 U		<0.25 U		<0.25 U		0.44 J	<0.25 U		<0.25 U	
	Lithium	ug/L	Tier 1														2.6	<0.25 U	<0.25 U	0.66		1.6	3.4		3.0		<0.25 U		4.1		<0.25 U	<0.25 U		1.4	
	Magnesium	ug/L	Tier 1														20500	24800	22800	21700		1740	21800		22200		23700		18100		21800	23700		5350	
	Manganese	ug/L	Tier 1														365	35.2	13.6	328		31.9	794		431		20.6		300		41.8	<1.2 U		855	
	Mercury - low level	ng/L	Tier 1														1.24	0.581	0.913	1.3		0.438 J	0.996		0.506		0.621		0.419 J		1.45	0.996		1.82	
	Molybdenum	ug/L	Tier 1														5.2	9.9	9.2	7.2		<0.25 U	0.56		12.5		9.3		3.3		10.9	9.5		3.1	
	Nickel	ug/L	Tier 1														4.4	0.56	0.37 J	0.95		22.6	0.35 J		0.59		26.2		0.41 J		0.55	0.41 J		1.5	
	Potassium	ug/L	Tier 1														3390	6230	5880	6220		1320	5270		6750		8030		3340		8720	8150		2040	
	Selenium	ug/L	Tier 1														<1.2 U	<1.2 U	<1.2 U	<1.2 U		<1.2 U	<1.2 U		<1.2 U		<1.2 U		<1.2 U		<1.2 U	<1.2 U		<1.2 U	
	Silver	ug/L	Tier 1														<0.50 U	<0.50 U	<0.50 U	<0.50 U		<0.50 U	<0.50 U		0.6 J		<0.50 U		<0.50 U		<0.50 U	<0.50 U		<0.50 U	
	Sodium	ug/L	Tier 1														14200	13600	12600	12300		15900	4430		14100		13100		14100		12800	12400		2050	
	Thallium	ug/L	Tier 1														<0.25 U	<0.25 U	<0.25 U	<0.25 U		<0.25 U	<0.25 U		<0.25 U		<0.25 U		<0.25 U		<0.25 U	<0.25 U		<0.25 U	
	Total Hardness	ug/L	Tier 1														215000	225000	212000	227000		16300	206000		229000		219000		219000		208000	231000		47600	
	Vanadium	ug/L	Tier 1														1.2	0.62	0.52	0.27 J		0.9	0.86		<0.25 U		0.46 J		<0.25 U		0.34 J	0.54		0.61	
	Zinc	ug/L	Tier 1														<12.5 U	<12.5 U	<12.5 U	<12.5 U		<12.5 U	<12.5 U		<12.5 U		<12.5 U		<12.5 U		<12.5 U	<12.5 U		<12.5 U	
	Inorganics																																		
	Bicarbonate Alkalinity	mg/L	Tier 1														125	110	110	119		6.6 J	246		125		110		147		108	108		44	
	Carbonate Alkalinity	mg/L	Tier 1														<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U		<3.2 U		<3.2 U		<3.2 U		<3.2 U	<3.2 U		<3.2 U	
	Chloride	mg/L	Tier 1														12	12.5	12.4	12.3		14.4	6.9		13		12.4		12.6		11.6	12.6		2.6 J	
	Fluoride	mg/L	Tier 1														0.22 J	0.25 J	0.25 J	0.25 J		0.21 J	0.2 J		0.22 J		0.26 J		0.2 J		0.26 J	0.26 J		0.37 J	
	Nitrogen, Ammonia	mg/L	Tier 1														<0.50 U	<0.50 U	<0.50 U	<0.50 U		<0.50 U	1.2		<0.50 U		<0.50 U		<0.50 U		<0.50 U	<0.50 U		<0.50 U	
	Nitrogen, Nitrate	mg/L	Tier 1														<0.085 U	<0.085 U	<0.085 U	<0.085 U		<0.085 U	<0.085 U		<0.085 U		<0.085 U		<0.085 U		<0.085 U	<0.085 U		<0.085 U	
	Nitrogen, Nitrite	mg/L	Tier 1														<0.036 U	<0.036 U	<0.036 U	0.07 J		<0.036 U	<0.036 U		<0.036 U		<0.036 U		<0.036 U		<0.036 U	<0.036 U		<0.036 U	
	Sulfate	mg/L	Tier 1														123	142	145	143		30.8	7.8		143		141		114		133	146		16.2	
	Sulfide	mg/L	Tier 1														<2.3 U	<2.3 U	<2.3 U	<2.3 U		<2.3 U	<2.3 U		<2.3 U		<2.3 U		<2.3 U		<2.3 U	<2.3 U		<2.3 U	
	Total Alkalinity	mg/L	Tier 1														125	110	110	119		6.6 J	246		125		110		147		108	108		44	
	VOC																																		
	1,1,1-Trichloroethane	ug/L	Tier 1																																
	1,1,2,2-Tetrachloroethane	ug/L	Tier 1																																
	1,1,2-Trichloroethane	ug/L	Tier 1																																
	1,1-Dichloroethane	ug/L	Tier 1																																
	1,1-Dichloroethene	ug/L	Tier 1																																
	1,2-Dichloroethane	ug/L	Tier 1																																
	1,2-Dichloroethene, Total	ug/l	Tier 1																																
	1,2-Dichloropropane	ug/L	Tier 1																																
	2-Hexanone	ug/L	Tier 1																																
	4-Methyl-2-pentanone	ug/L	Tier 1																																
	Acetone	ug/L	Tier 1																																
	Benzene	ug/L	Tier 1																																
	Bromodichloromethane	ug/L	Tier 1																																
	Bromoform	ug/L	Tier 1																																
	Bromomethane	ug/L	Tier 1																																
	Carbon Disulfide	ug/L	Tier 1																																
	Carbon Tetrachloride	ug/L	Tier 1																																
	Chlorobenzene	ug/L	Tier 1																																
	Chlorodibromomethane	ug/L	Tier 1																																
	Chloroethane	ug/L	Tier 1																																
	Chloroform	ug/L	Tier 1																																
	Chloromethane	ug/L	Tier 1																																
	cis-1,3-Dichloropropene	ug/L	Tier 1																																
	Ethylbenzene	ug/l	Tier 1																																
	Methel ethyl Ketone	ug/L	Tier 1																																
	Methylene Chloride	ug/L	Tier 1																																
	Styrene	ug/L	Tier 1																																
	Tetrachloroethene	ug/L	Tier 1																																
	Toluene	ug/L	Tier 1																																
	trans-1,3-Dichloropropene	ug/L	Tier 1																																
	Trichloroethene	ug/L	Tier 1																																
	Vinyl Chloride	ug/L	Tier 1																																
	Xylenes	ug/l	Tier 1																																
	VOC-PAH																																		
	Naphthalene	ug/L	Tier 1																																
7/15/2008	**Field Measurement**																																		
	Conductivity	mmhos	Tier 1														316	246		265		98	341		268		308		261		259	317		101	
	Depth to Water	ft	Tier 1	1.19	1.53	4.39	3.34	1.45 J	1.97	2.93	1.36	2.5	2.42	1.63	1.96	1.02	5.83	5.75		8.35		34.43	27.72		6.07		6.13		3.81		3.3	7.85	4.59	7.55	
	Dissolved Oxygen	mg/L	Tier 1														0.03	6.61		0.2		0.005	<0.05		<0.005		5.13		<0.005		2	5.9		<0.005	
	GW Elevation	ft msl	Tier 1	1532.36	1543.44	1748.13	1574.28	1537.4	1534.56	1600.53	1591.11	1590.47	1590.2	1589.36	1585.2	1575.98	1536.03	1536.07		1536.64		1550.42	1554.3		1536.96		1537.17		1533.82		1534.28	1535.58	1584.16	1589.37	
	ORP	mV	Tier 1														-36.7	-28.3		-147.8		118.8	-200.7		-168.5		-37.7		-183.2		-125.1	53		-23.6	
	pH	S.U.	Tier 1														7.08	7.81		7.91		5.34	7.19		7.92		7.52		8.07		7.78	7.36		6.37	
	Specific Conductance	@25 degrees C	Tier 1														445	401		396		145	497		404		475		384		375	482		139	
	Temperature	Celcius	Tier 1														9.78	4.46		8.48		8.27	8.57		8.22		6.65		8.99		9.56	7.1		10.98	
	Turbidity	NTU	Tier 1														<1	<1		15		<1	21.2		5		8.9		3		8	<1		<1	
	Metal																																		
	Aluminum	ug/L	Tier 1														65.2	2.9 J		2.2 J		411	3.1 J		<2.0 U	3.1 J	3.4 J		<2.0 U		2.1 J	5.7		13.4	
	Antimony	ug/L	Tier 1														0.13 J	6.2		7.3		0.14	<0.050 U		<0.050 U	<0.050 U	10		<0.050 U		11.3	7.8		0.066 J	
	Arsenic	ug/L	Tier 1														0.75 J	0.25		0.33		0.91	3.7		6.7	7.0	0.23		4.3		0.18 J	0.23		3.8	
	Barium	ug/L	Tier 1														15.4	38.4		17.4		17.6	145		106	106	47.8		36.7		61.7	44.5		18.5	
	Beryllium	ug/L	Tier 1														<0.070 U	<0.10 U		<0.10 U		0.28	<0.10 U		<0.10 U	<0.10 U	<0.10 U		<0.10 U		<0.10 U	<0.10 U		<0.10 U	
	Boron	ug/L	Tier 1														75.9	70		79.1		11	69.8		89.4	92.8	78.8		67.4		82.8	61.2		49	
	Cadmium	ug/L	Tier 1														<0.048 U	<0.050 U		<0.050 U		0.3	<0.050 U		<0.050 U	<0.050 U	<0.050 U		<0.050 U		<0.050 U	<0.050 U		<0.050 U	
	Calcium	ug/L	Tier 1														57400	44800		58100		6900	53800		59400	58600	63400		76100		61200	56400		17000	
	Chromium	ug/L	Tier 1														1.0	<0.25 U		<0.25 U		<0.25 U	0.5		<0.25 U	<0.25 U	<0.25 U		<0.25 U		<0.25 U	0.33 J		<0.25 U	

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	HMP-004	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMS-001	HMS-002	HMS-003	HMS-004	HMS-005	HMS-006	HMS-007	HW-1	HW-1A	HW-1A	HW-2	HW-2	HW-3	HW-4	HW-4	HW-5	HW-5	HW-5A	HW-5A	HW-6	HW-6	HW-6A	HYG-1	KMW-1	KMW-10	KMW-10
	Cobalt	ug/L	Tier 1														2.4	3.1		2.7		12.5	0.11		0.42	0.47	3.7		0.42		2.2	3.4		2.7	
	Copper	ug/L	Tier 1														0.92	1.0		0.43		63.6	<0.10 U		<0.10 U	<0.10 U	0.99		<0.10 U		1.3	1.1		1	
	Cyanide	mg/L	Tier 1														<0.0060 U	<0.0060 U		<0.0060 U		<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U		<0.0060 U	<0.0060 U		<0.0060 U	
	Iron	ug/L	Tier 1														396	438		591		1400	38300		1480	1490	1970		2050		1220	<25.0 U		5020	
	Lead	ug/L	Tier 1														<0.28 U	<0.050 U		<0.050 U		0.14	38.1		<0.050 U	<0.050 U	0.12		<0.050 U		<0.050 U	<0.050 U		<0.050 U	
	Lithium	ug/L	Tier 1														2.2	0.093 J		0.85		1.7	2.9		2.9	3.1	0.084 J		4.2		0.089 J	0.1		1.7	
	Magnesium	ug/L	Tier 1														22400	22400		23500		3670	25600		24000	24100	31000		20200		23700	27200		8510	
	Manganese	ug/L	Tier 1														356	8.0		363		46.9	922		460	457	12.8		324		39.6	7.2		1600	
	Mercury - low level	ng/L	Tier 1														0.896	1.46		1.58		0.32 J	1.35		3.67	0.604	1.49		0.69		0.907	1.49		0.74	
	Molybdenum	ug/L	Tier 1														6.6	11.4		8.4		0.063 J	0.3		13.8	14	8.8		3.6		12.4	9.9		2.3	
	Nickel	ug/L	Tier 1														4.3	0.55		0.67		49.1	0.065 J		0.27	0.26	29.5		0.22		0.3	0.3		1.3	
	Potassium	ug/L	Tier 1														3660	5140		6460		1490	5580		7150	7190	7550		3440		10100	7140		3030	
	Selenium	ug/L	Tier 1														<0.38 U	<0.25 U		<0.25 U		0.87	<0.25 U		<0.25 U	<0.25 U	<0.25 U		<0.25 U		<0.25 U	<0.25 U		<0.25 U	
	Silver	ug/L	Tier 1														<0.10 U	<0.10 U		<0.10 U		<0.10 U	<0.10 U		<0.10 U	<0.10 U	<0.10 U		<0.10 U		<0.10 U	<0.10 U		0.13 J	
	Sodium	ug/L	Tier 1														15300	11800		12900		13800	4760		13900	13800	13300		14400		11800	12700		1400	
	Thallium	ug/L	Tier 1														0.04	<0.050 U		<0.050 U		0.086 J	<0.050 U		<0.050 U	<0.050 U	<0.050 U		<0.050 U		<0.050 U	<0.050 U		<0.050 U	
	Total Hardness	ug/L	Tier 1														236000	204000		242000		32300	240000		247000	245000	286000		273000		250000	253000		77400	
	Vanadium	ug/L	Tier 1														0.41 J	0.52		0.24		0.57	0.95		<0.050 U	<0.050 U	0.57		<0.050 U		0.36	0.54		0.54	
	Zinc	ug/L	Tier 1														<2.8 U	<2.5 U		<2.5 U		21.4	<2.5 U		<2.5 U	<2.5 U	<2.5 U		<2.5 U		<2.5 U	<2.5 U		2.5 J	
	Inorganics																																		
	Bicarbonate Alkalinity	mg/L	Tier 1														121	83.6		121		6.6 J	249		125	128	112		147		106	110		70.4	
	Carbonate Alkalinity	mg/L	Tier 1														<3.2 U	<3.2 U		<3.2 U		<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U		<3.2 U	<3.2 U		<3.2 U	
	Chloride	mg/L	Tier 1														11.8	11		11.7		11.2	7.1		12.7	12.8	12.2		12.4		11.5	12.7		2.7 J	
	Fluoride	mg/L	Tier 1														0.23 J	0.25 J		0.25 J		0.26 J	0.31 J		0.24 J	0.25 J	0.26 J		0.23 J		0.26 J	0.26 J		0.34 J	
	Nitrogen, Ammonia	mg/L	Tier 1														<0.50 U	<0.50 U		<0.50 U		<0.50 U	0.98 J		<0.50 U	<0.50 U	<0.50 U		<0.50 U		<0.50 U	<0.50 U		<0.50 U	
	Nitrogen, Nitrate	mg/L	Tier 1														0.61	1.7		1.3		0.75	<0.085 U		<0.085 U	<0.085 U	2		<0.085 U		1.1	2.1		<0.085 U	
	Nitrogen, Nitrite	mg/L	Tier 1														<0.036 U	<0.036 U		<0.036 U		<0.036 U	<0.036 U		<0.036 U	<0.036 U	<0.036 U		<0.036 U		<0.036 U	<0.036 U		<0.036 U	
	Sulfate	mg/L	Tier 1														119	117		132		43.6	6.6		139	137	137		106		131	140		14.1	
	Sulfide	mg/L	Tier 1														<2.3 U	<2.3 U		<2.3 U		<2.3 U	<2.3 U		<2.3 U	<2.3 U	<2.3 U		<2.3 U		<2.3 U	<2.3 U		<2.3 U	
	Total Alkalinity	mg/L	Tier 1														121	83.6		121		6.6 J	249		125	128	112		147		106	110		70.4	
	VOC																																		
	1,1,1-Trichloroethane	ug/L	Tier 1																																
	1,1,2,2-Tetrachloroethane	ug/L	Tier 1																																
	1,1,2-Trichloroethane	ug/L	Tier 1																																
	1,1-Dichloroethane	ug/L	Tier 1																																
	1,1-Dichloroethene	ug/L	Tier 1																																
	1,2-Dichloroethane	ug/L	Tier 1																																
	1,2-Dichloroethene, Total	ug/l	Tier 1																																
	1,2-Dichloropropane	ug/L	Tier 1																																
	2-Hexanone	ug/L	Tier 1																																
	4-Methyl-2-pentanone	ug/L	Tier 1																																
	Acetone	ug/L	Tier 1																																
	Benzene	ug/L	Tier 1																																
	Bromodichloromethane	ug/L	Tier 1																																
	Bromoform	ug/L	Tier 1																																
	Bromomethane	ug/L	Tier 1																																
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	Chlorobenzene	ug/L	Tier 1																																
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	Chloroethane	ug/L	Tier 1																																
	Chloroform	ug/L	Tier 1																																
	Chloromethane	ug/L	Tier 1																																
	cis-1,3-Dichloropropene	ug/L	Tier 1																																
	Ethylbenzene	ug/l	Tier 1																																
	Methel ethyl Ketone	ug/L	Tier 1																																
	Methylene Chloride	ug/L	Tier 1																																
	Styrene	ug/L	Tier 1																																
	Tetrachloroethene	ug/L	Tier 1																																
	Toluene	ug/L	Tier 1																																
	trans-1,3-Dichloropropene	ug/L	Tier 1																																
	Trichloroethene	ug/L	Tier 1																																
	Vinyl Chloride	ug/L	Tier 1																																
	Xylenes	ug/l	Tier 1																																
	VOC-PAH																																		
	Naphthalene	ug/L	Tier 1																																
10/13/2008	**Field Measurement**																																		
	Conductivity	mmhos	Tier 1														334	574		362		149	346		183		342		326		347	542		140	
	Depth to Water	ft	Tier 1	0.91	1.6	Dry	Dry	1.99	1.54	0.57	Dry	1.1	1.14	0.98	1.34	0.77	6.26	6.09		8.76		35.03	28.26		6.83		6.66		3.91		3.74	7.8	9.16	8.16	
	Dissolved Oxygen	mg/L	Tier 1														<0.005	0.3		0.05		0.005	<0.005		0.01		0.3		0.005		6	0.3		<0.005	
	GW Elevation	ft msl	Tier 1	1532.08	1543.51	Dry	Dry	1537.91	1534.13	1598.17	Dry	1589.07	1588.92	1588.71	1584.58	1575.73	1535.6	1535.73		1536.23		1549.82	1553.76		1536.2		1536.64		1533.72		1533.84	1535.63	1579.59	1588.76	
	ORP	mV	Tier 1														-262	-45.1		172.4		81.3	-252.8		-315		-61.1		-210		-82	-48.3		-99.9	
	pH	S.U.	Tier 1														8	7.5		7.7		5.5	7.7		9.4		7.7		7.9		7.5	7.32		6.7	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1														463	712		456		222	518		259		444		464		473	714		186	
	Temperature	Celcius	Tier 1														10.5	14.84		14.19		7.8	7.62		9.6		12.92		9.38		10.99	12.37		12.54	
	Turbidity	NTU	Tier 1														3.2	<1		<1		<1	7.9		16.6		2.1		5		4.7	<1		<1	
	Metal																																		
	Aluminum	ug/L	Tier 1														26.4 J	10.5 J		<4.5 U	<4.5 U	218 J	5.9 J		49.8 J		<4.5 U	<4.5 U	<4.5 U		4.7 J	24.0 J		18.3 J	
	Antimony	ug/L	Tier 1														<0.071 U	11.6		8.8	8.6	<0.071 U	<0.071 U		<0.071 U		11.6	11.2	<0.071 U		13.4	11.8		<0.071 U	
	Arsenic	ug/L	Tier 1														0.68 J	0.60 J		0.34 J	0.34 J	0.41 J	3.3		0.51 J		0.60 J	0.48 J	4.6		0.39 J	0.73 J		4.7	
	Barium	ug/L	Tier 1														22.1	53		20.1	19	10.3	136		7.6		42.7	42.2	35.9		61	42.2		24.1	

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	HMP-004	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMS-001	HMS-002	HMS-003	HMS-004	HMS-005	HMS-006	HMS-007	HW-1	HW-1A	HW-1A	HW-2	HW-2	HW-3	HW-4	HW-4	HW-5	HW-5	HW-5A	HW-5A	HW-6	HW-6	HW-6A	HYG-1	KMW-1	KMW-10	KMW-10
	Beryllium	ug/L	Tier 1														<0.41 U	<0.41 U		<0.41 U	<0.41 U	<0.41 U	<0.41 U		<0.41 U		<0.41 U	<0.41 U	<0.41 U		<0.41 U	<0.41 U		<0.41 U	
	Boron	ug/L	Tier 1														80.5	101		113	110	8.9	76.1		68.7		129	128	66.3		48	128		49.4	
	Cadmium	ug/L	Tier 1														<0.087 U	<0.087 U		<0.087 U	<0.087 U	0.088 J	<0.087 U		<0.087 U		<0.087 U	<0.087 U	<0.087 U		<0.087 U	<0.087 U		<0.087 U	
	Calcium	ug/L	Tier 1														59100	49700		55600	53100	6180	52700		6460		51400	49400	64800		54400	49400		20800	
	Chromium	ug/L	Tier 1														<0.30 U	<0.30 U		<0.30 U	<0.30 U	<0.30 U	0.81 J		0.71 J		0.88 J	<0.30 U	<0.30 U		0.45 J	0.43 J		0.37 J	
	Cobalt	ug/L	Tier 1														0.84 J	2.2		1.7	1.7	9.3	0.13 J		0.86 J		2.3	2.3	0.38 J		3.3	2.4		5	
	Copper	ug/L	Tier 1														<0.50 U	1.7		<0.50 U	<0.50 U	20.4	<0.50 U		1.2		1	0.98 J	<0.50 U		1.4	1.7		0.83 J	
	Cyanide	mg/L	Tier 1														<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U		<0.0060 U	
	Iron	ug/L	Tier 1														3170	246 J		479	443	1560	53000		4040		244 J	239 J	2250		1320	232 J		6430	
	Lead	ug/L	Tier 1														<0.50 U	<0.50 U		<0.50 U	<0.50 U	<0.50 U	77.8		<0.50 U		<0.50 U	<0.50 U	<0.50 U		<0.50 U	<0.50 U		<0.50 U	
	Lithium	ug/L	Tier 1														2.4	<0.13 U		0.99 J	1	1.9	2.6		4.1		0.15 J	<0.13 U	4.2		<0.13 U	<0.13 U		1.8	
	Magnesium	ug/L	Tier 1														21600	23700		22600	21500	3060	25600		18700		25100	24100	19100		24900	22500		9930	
	Manganese	ug/L	Tier 1														406	7.4		349	332	36.2	914		75.2		12.9	12.8	341		17.6	17.9		1870	
	Mercury - low level	ng/L	Tier 1														0.528	0.768		1.43	1.7	0.179 J	0.841		0.354 J		0.603	0.605	0.246 J		1.01	1.06		0.642	
	Molybdenum	ug/L	Tier 1														8.9	10.3		10.7	10.2	<0.064 U	0.36 J		2.2		10.6	10.2	3.2		10.8	10		2.7	
	Nickel	ug/L	Tier 1														1	0.87 J		0.94 J	0.99 J	38.3	0.52 J		2.8		25.4	24.9	0.37 J		0.63 J	1.2		1.4	
	Potassium	ug/L	Tier 1														3910	7020		7540	7140	1400	5590		5330		7140	7010	3360		9960	7490		3490	
	Selenium	ug/L	Tier 1														<0.25 U	<0.25 U		<0.25 U	<0.25 U	0.44 J	<0.25 U		<0.25 U		<0.25 U	<0.25 U	<0.25 U		<0.25 U	<0.25 U		<0.25 U	
	Silver	ug/L	Tier 1														<0.25 U	<0.25 U		<0.25 U	<0.25 U	<0.25 U	<0.25 U		<0.25 U		<0.25 U	<0.25 U	<0.25 U		<0.25 U	<0.25 U		<0.25 U	
	Sodium	ug/L	Tier 1														14400	12400		13700	13000	14500	5060		23700		12900	12700	14600		12200	12800		1630	
	Thallium	ug/L	Tier 1														<0.019 U	<0.019 U		<0.019 U	<0.019 U	<0.019 U	<0.019 U		<0.019 U		0.19 J	0.20 J	<0.019 U		<0.019 U	<0.019 U		0.13 J	
	Total Hardness	ug/L	Tier 1														236000	222000		232000	221000	28000	237000		93300		232000	223000	240000		238000	216000		92800	
	Vanadium	ug/L	Tier 1														<0.45 U	1.1		<0.45 U	<0.45 U	0.52 J	0.73 J		<0.45 U		0.76 J	0.64 J	<0.45 U		0.47 J	0.81 J		0.96 J	
	Zinc	ug/L	Tier 1														3.0 J	3.1 J		2.2 J	2.7 J	13.6	6		5.8		3.5 J	3.3 J	2.7 J		3.3 J	3.4 J		3.0 J	
	Inorganics																																		
	Bicarbonate Alkalinity	mg/L	Tier 1														130	102		125	123	4.3 J	257		86.4		108	108	149		102	104		90.7	
	Carbonate Alkalinity	mg/L	Tier 1														<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U		17.3		<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U		<3.2 U	
	Chloride	mg/L	Tier 1														11.9	10.9		11.4	11.3	18	5.8		24.3		11	10.6	12		12.1	11		2.7 J	
	Fluoride	mg/L	Tier 1														0.28 J	0.31 J		0.30 J	0.30 J	0.24 J	0.21 J		<0.059 U		0.31 J	0.31 J	0.27 J		0.30 J	0.32 J		0.40 J	
	Nitrogen, Ammonia	mg/L	Tier 1														<0.50 U	<0.50 U		0.21	0.1	<0.50 U	1		<0.50 U		<0.50 U	<0.50 U	4.7		<0.50 U	<0.50 U		15.6	
	Nitrogen, Nitrate	mg/L	Tier 1														0.19 J	1.6		0.18 J	0.18 J	0.25 J	<0.085 U		<0.085 U		1	1	<0.085 U		1.8	1.3		<0.085 U	
	Nitrogen, Nitrite	mg/L	Tier 1														<0.036 U	<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U		<0.036 U		<0.036 U	<0.036 U	<0.036 U		<0.036 U	<0.036 U		<0.036 U	
	Sulfate	mg/L	Tier 1														127	130		134	133	28.4	2.4 J		17.2		132	131	111		143	132		10.3	
	Sulfide	mg/L	Tier 1														<2.3 U	<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U		<2.3 U		<2.3 U	<2.3 U	<2.3 U		<2.3 U	<2.3 U		<2.3 U	
	Total Alkalinity	mg/L	Tier 1														130	102		125	123	4.3 J	257		104		108	108	149		102	104		90.7	
	VOC																																		
	Benzene	ug/L	Tier 1																																
	Ethylbenzene	ug/l	Tier 1																																
	Toluene	ug/L	Tier 1																																
	Xylenes, m + p	ug/L	Tier 1																																
	Xylenes, o	ug/l	Tier 1																																

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	KMW-2	KMW-3	KMW-3	KMW-4	KMW-5	KMW-6A	KMW-7	KMW-9	KMW-9	KMW-9P	KMW-9P	MW-101	MW-102	MW-103	MW-104	MW-11	MW-12	MW-5	MW-6	MW-601	MW-601	MW-602	MW-602	MW-603	MW-604	MW-605	MW-605	MW-606	MW-7	MW-9	P-602	P-604	P-604
				KMW-2	KMW-3	Dup	KMW-4	KMW-5	KMW-6A	KMW-7	KMW-9	Dup	KMW-9P	Dup	MW-101	MW-102	MW-103	MW-104	MW-11	MW-12	MW-5	MW-6	MW-601	Dup	MW-602	Dup	MW-603	MW-604	MW-605	Dup	MW-606	MW-7	MW-9	P-602	P-604	Dup
3/11/2008	**Field Measurement**																																			
	Depth to Water	ft	Tier 1	8.18	16.33		30.11	43.33	43.52	27.07	26.75		26.64		7.25	8.41	9.53	11.05	6.66	5.68	10.18	23.26	6.99		19.78		18.78	6.99	7.68		14.64	27.05	26.81	19.69	7.67	
	Dissolved Oxygen	mg/L	Tier 1	<0.005	<0.005		<0.005	<0.4		<0.005	<0.005		<0.005		<0.005	i	<0.005		1.2	<0.05	i		i		<0.005		0.2	<0.005	<0.005		0.3			<0.005	0.01	
	GW Elevation	ft msl	Tier 1	1581.01	1574.25		1556.51	1554.55	1554.95	1555.43	1554.65		1554.83		1593.16	1588.41	1586.51	1580.48	1587.6	1584.58	1578.9	1567.42	1596.08		1601.63		1595.02	1588.57	1589		1600.46	1562.14	1587.26	1601.63	1587.75	
	ORP	mV	Tier 1	-95	-58		-6	-88		1.1	36.1		-70.8		-108	i	-90		-49	-88.3	i		i		-143.5		-23	-76.9	-30.7		-102			-214	4	
	pH	S.U.	Tier 1	6.9	6.5		NM	6.5		6	6.2		NM		6.8	i	NM		6.2	7.1	i		i		7.3		NM	6.7	7.9		NM			7.8	6.7	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	607	506		369	426		1342	539		1725		391	i	708		2349	309	i		i		203		152	276	216		195			156	239	
	Temperature	Celcius	Tier 1	6.32	8.88		7.9	7.4		9.76	8.86		8.2		7.8	i	8		8.95	8.65	i		i		8.3		8.8	3.02	6.67		7.7			8.72	6.74	
	Turbidity	NTU	Tier 1	30	<1		<1	43		<1	2.1		<1		19	i	<1		35	<1	i		i		<1		5	<1	13.4		17			<1	62	
	Metal																																			
	Aluminum	ug/L	Tier 1	940	38.2 J	40.7 J	73.4	941		23.6 J	20 J		<44.3 U	<44.3 U	689	269000	35.6 J		1280	16.3 J	203		22300		6.1 J		13.7 J	18.7 J	2120		209			15.6 J	678	560
	Antimony	ug/L	Tier 1	0.23 J	<0.10 U	0.13 J	<0.10 U	0.12 J		<0.10 U	<0.10 U		<1.0 U	<1.0 U	0.1 J	7.4 J	<0.10 U		0.15 J	<0.10 U	0.37 J		1.1 J		<0.10 U		<0.10 U	<0.10 U	0.19 J		<0.10 U			<0.10 U	<0.10 U	0.21 J
	Arsenic	ug/L	Tier 1	30.6	15.4	15.8	2.0	4.1		4.1	3.8		6.0 J	3.8 J	19.8	891	13.7		11.1	8.8	16.4		90.9		1.2		4.3	2.6	7.4		1.3			7.8	0.39 J	0.47 J
	Barium	ug/L	Tier 1	247	78.8	78.4	41	16.3		49	66.4		42.7	41.1	74.1	6.5 J	89.8		374	29.2	14.7		405		13.8		8.6	28.4	51.2		15.2			25.1	20.8	17.9
	Beryllium	ug/L	Tier 1	0.09 J	<0.070 U	0.070 J	<0.070 U	0.34 J		0.19 J	0.08 J		<0.70 U	<0.70 U	0.17 J	28.3	<0.070 U		3.3	<0.070 U	<0.070 U		1.5 J		<0.070 U		<0.070 U	0.1 J	0.12 J		0.19 J			<0.070 U	0.13 J	0.18 J
	Boron	ug/L	Tier 1	42	42.5	46.6	68.7	70.6		80.7	59.3		75.9 J	94.4 J	107	107	42.4		14.8	38.9	8.6 J		523		31.4		38	59	46		34.3			39.6	26.4	26.5
	Cadmium	ug/L	Tier 1	0.11 J	<0.098 U	<0.098 U	<0.098 U	<0.098 U		0.1 J	<0.098 U		<0.98 U	<0.98 U	0.15 J	46.5	<0.098 U		<0.098 U	<0.098 U	0.48 J		<0.98 U		<0.098 U		<0.098 U	<0.098 U	0.17 J		<0.098 U			<0.098 U	<0.098 U	<0.098 U
	Calcium	ug/L	Tier 1	73600	44300	45900	40300	34200		111000	57300		185000	213000	34900	282000	65300		202000	34500	1240		88200		11900		10000	27000	19100		18500			15400	29700	28200
	Chromium	ug/L	Tier 1	4.4	<0.43 U	1.6	<0.43 U	4.5		1.4	1.0		<4.3 U	<4.3 U	2.0	4330	1.1		9.6	<0.43 U	1.7		57.7		<0.43 U		<0.43 U	<0.43 U	5.1		0.95 J			<0.43 U	1.4	1.1
	Cobalt	ug/L	Tier 1	4.5	3.7	3.6	2.8	230		128	7.8		20.4	19.4	0.79 J	4940	0.7 J		11.1	0.22 J	1.7		29		0.06 J		14.8	0.64 J	3.5		1.4			0.12 J	1.5	1.5
	Copper	ug/L	Tier 1	5.4	0.46 J	0.49 J	0.96 J	1.9		0.85 J	0.9 J		1.3 J	<1.2 U	1.6	7880	1.4		2110	2.9	4.7		96.1		0.13 J		0.3 J	0.69 J	18.6		54.3			0.55 J	27	26.3
	Cyanide	mg/L	Tier 1	<0.0060 U	0.0093 J	0.012 J	<0.0060 U	0.017 J		0.012 J	0.0088 J		<0.0060 U	<0.0060 U	0.012 J		<0.0060 U		0.013 J	0.013 J	<0.0060 U		<0.0060 U		<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U			0.013 J	<0.0060 U	<0.0060 U
	Iron	ug/L	Tier 1	33700	29700	28700	4210	25600		177000	7530		183000	173000	33800	3830000	69000		274000	10100	4500		126000		10800		4180	13000	6710		4300			3600	1810	1680
	Lead	ug/L	Tier 1	0.96 J	0.11 J	0.17 J	0.07 J	1.4		0.12 J	0.17 J		<0.44 U	<0.44 U	0.4 J	6.5 J	0.09 J		58.5	0.12 J	17.9		28.9		<0.044 U		<0.044 U	0.13 J	1.8		1.7			0.06 J	1.3	0.96 J
	Lithium	ug/L	Tier 1	1.8	1.5	1.8	0.58 J	8.8		3.1	0.28 J		4.0 J	5.7 J	0.68 J	255	0.91 J		1.5	1.2	0.3 J		21.1		8.8		9.0	3.3	4.0		5.3			3.2	1.4	1.4
	Magnesium	ug/L	Tier 1	24900	20400	21100	14800	17700		57500	24200		72300	84300	9330	277000	22900		89800	13000	235 J		21900		7100		7610	11200	11100		12800			8190	11400	11100
	Manganese	ug/L	Tier 1	6240	5280	5630	4320	1610		19900	10300		28400	27100	6760	15700	5350		18800	973	79.6		8560		6240		2850	2370	4160		1500			1800	39.5	37.1
	Mercury - low level	ng/L	Tier 1	5.45	0.64	0.359 J	1.14	1.42		0.243 J	0.409 J		0.481 J	0.339 J	2.01	114	0.423 J		27.1	<0.16 U	2.62		21		0.356 J		0.297 J	0.643	6.33		0.654			0.294 J	0.949	0.929
	Molybdenum	ug/L	Tier 1	3.7 J	0.85 J	1.0 J	1.0 J	3.3 J		0.46 J	0.63 J		1.4 J	1.3 J	1.2 J	<11.5 U	0.76 J		40.1	0.42 J	0.60 J		11.5 J		4.2 J		2.4 J	1.2 J	3 J		6.6 J			8.5 J	1.7 J	2 J
	Nickel	ug/L	Tier 1	8.2	0.63 J	0.88 J	4.8	18		92	13.1		<0.74 U	<0.74 U	1.5	12200	1.3		4.8	0.17 J	5.2		73.6		0.64 J		109	0.43 J	10.7		11.7			0.23 J	2.1	1.9
	Potassium	ug/L	Tier 1	3490	2490	2570	3150	4450		6330	3140		7560	7990	3620	239 J	3710		10500	1640	287 J		11500		2120		2800	2700	4030		3260			3270	2490	2280
	Selenium	ug/L	Tier 1	0.35 J	0.28 J	0.45 J	<0.15 U	<0.15 U		1.2	0.24 J		<1.5 U	3.1 J	0.35 J	11.2	<0.15 U		2	0.25 J	0.17 J		7.8 J		<0.15 U		0.72 J	0.26 J	<0.15 U		<0.15 U			<0.15 U	<0.15 U	<0.15 U
	Silver	ug/L	Tier 1	0.25 J	<0.11 U	<0.11 U	<0.11 U	<0.11 U		<0.11 U	<0.11 U		<1.1 U	<1.1 U	<0.11 U	2.7 J	<0.11 U		<0.11 U	0.12 J	<0.11 U		<1.1 U		<0.11 U		<0.11 U	<0.11 U	<0.11 U		<0.11 U			<0.11 U	<0.11 U	<0.11 U
	Sodium	ug/L	Tier 1	4430	3460	3640	3160	18800		5770	4020		6420	7910	7750	2430 J	4870		43100	3900	752		27200		485 J		374 J	1420	970		297 J			686	2080	2040
	Thallium	ug/L	Tier 1	0.05 J	<0.030 U	<0.030 U	<0.030 U	0.05 J		<0.030 U	<0.030 U		<0.30 U	<0.30 U	<0.030 U	<0.30 U	<0.030 U		<0.030 U	<0.030 U	<0.030 U		<0.30 U		<0.030 U		<0.030 U	<0.030 U	<0.030 U		<0.030 U			<0.030 U	<0.030 U	<0.030 U
	Total Hardness	ug/L	Tier 1	286000	195000	202000	161000	158000		514000	243000		759000	879000	126000	1850000	257000		875000	140000	4100 J		310000		59000		56400	113000	93500		98900			72200	121000	119000
	Vanadium	ug/L	Tier 1	4.4	0.58 J	0.74 J	0.47 J	1.8		4.4	2.1		<4.1 U	<4.1 U	4.0	186	2.4		17.9	0.65 J	1.6		89.5		<0.41 U		<0.41 U	0.54 J	5.3		0.69 J			<0.41 U	1.7	1.5
	Zinc	ug/L	Tier 1	11.8	8.6 J	5.4 J	5.2 J	11.9		12	16.7		44.2 J	35.7 J	9 J	6520	10.5		441	5.4 J	594		220		4.1 J		5.5 J	4.8 J	20.7		15.4			4.9 J	13.6	11.1
	Inorganics																																			
	Bicarbonate Alkalinity	mg/L	Tier 1	118	84.4	82.1	97.7	104		66.6	77.7		86.6	84.4	162		86.6		424	142	4.4 J		397		24.4		31.1	129	102		68.8			86.6	109	118
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U			<3.2 U	<3.2 U	<3.2 U
	Chloride	mg/L	Tier 1	3.3 J	2.8 J	2.8 J	2.8 J	3.5 J		4.7 J	2.9 J		4.1 J	4.1 J	4.3 J		3.7 J		35.3	2.9 J	2.2 J		4.5 J		2.3 J		2.3 J	2.4 J	2.4 J		2.3 J			2.4 J	2.4 J	2.4 J
	Fluoride	mg/L	Tier 1	0.24 J	0.28 J	0.27 J	0.28 J	<0.059 U		0.27 J	0.23 J		0.22 J	0.21 J	0.45 J		0.27 J		0.35 J	0.23 J	<0.059 U		0.54		0.48 J		0.61	0.44 J	0.44 J		0.49 J			0.35 J	0.27 J	0.27 J
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U	0.7 J	0.64 J	0.5 J	<0.50 U		1.7	0.56 J		1.3	1.2	<0.50 U		1.1		17	0.61 J	<0.50 U		6.2		<0.50 U		<0.50 U	<0.50 U	<0.50 U		<0.50 U			<0.50 U	<0.50 U	<0.50 U
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U	<0.085 U	<0.085 U	<0.085 U	<0.085 U		<0.085 U	<0.085 U		<0.085 U	<0.085 U	<0.085 U		0.19 J		<0.085 U	0.23 J	0.39 J		<0.085 U		<0.085 U		<0.085 U	<0.085 U	<0.085 U		<0.085 U			<0.085 U	<0.085 U	<0.085 U
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U	0.44	0.42	<0.036 U	<0.036 U		1.2	0.44		<0.036 U	1	<0.036 U		<0.036 U		<0.36 U	0.48	0.08 J		<0.036 U		<0.036 U		<0.036 U	<0.036 U	<0.036 U		<0.036 U			<0.036 U	<0.036 U	<0.036 U
	Sulfate	mg/L	Tier 1	168	155	154	89.8	104		846	198		1020	1040	<0.51 U		243		912	10	2.7 J		5.4		62.3		31.8	2.0 J	9.9		28.1			1.8 J	8.0	8.1
	Sulfide	mg/L	Tier 1	2.4 J				<2.3 U		9.6	3.8 J		10.8	19.8	2.8 J		4.8 J		<2.3 U		<2.3 U				<2.3 U		<2.3 U							<2.3 U	<2.3 U	<2.3 U
	Total Alkalinity	mg/L	Tier 1	118	84.4	82.1	97.7	104		66.6	77.7		86.6	84.4	162		86.6		424	142	4.4 J		397		24.4		31.1	129	102		68.8			86.6	109	118
	VOC																																			
	Benzene	ug/L	Tier 1																		1.3															
	Ethylbenzene	ug/l	Tier 1																		21.3															
	Toluene	ug/L	Tier 1																		0.86 J															
	Xylenes, m + p	ug/L	Tier 1																		208															
	xylenes, o	ug/L	Tier 1																		206															
5/20/2008	**Field Measurement**																																			
	Conductivity	mmhos	Tier 1	689	317		219	i		732	385		1179		255	i	464		2235	205	i		i		101		89	127	126		127			84	112	
	Depth to Water	ft	Tier 1																																	
	Dissolved Oxygen	mg/L	Tier 1	<0.05	<0.05		<0.05	i		<0.05	<0.05		<0.05		<0.05	i	<0.05		<0.05	<0.05	i		i		3.92		1.36	<0.05	2.82		<0.05			<0.05	2	
	GW Elevation	ft msl	Tier 1																																	
	ORP	mV	Tier 1	-64	-66.7		-0.2	i		-8	26.3		-63.4		-97.3	i	-88		-75.4	-117.6	i		i		-34.1		35.5	-95.9	70.2		-59.3			-147.7	33.7	
	pH	S.U.	Tier 1	6.37	6.52		6.43	i		5.84	6.11		6.23		6.6	i	6.57		6.14	7.05	i		i		6.64		6.35	6.76	6.59		7.24			7.61	6.55	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	942	466		335	i		1065	572		1731		387	i	692		2235	298	i		i		151		131	202	192		191			115	170	
	Temperature	Celcius	Tier 1	9.41	8.19		6.96	i		8.66	7.84		8.31		7.22	i	7.67		7.32	9.41	i		i		7.48		8.1	5.77	7.19		7.18			10.59	6.9	
	Turbidity	NTU	Tier 1	<1	<1		<1	i		1.76	<1		<1		3.22	i	1.61		6.3	NM	i		i		<1		<1	14.6	1.59		<1			24.6	3.15	
	Metal																																			
	Aluminum	ug/L	Tier 1	60.9	<10.0 U		12 J	3900		46.1	11.1 J		<10.0 U		66.7	507000	13 J		833	19.4 J	637		5270		32.1		30.6	321	39	30.7	27.3			125	59.2	65.9
	Antimony	ug/L	Tier 1	0.74	<0.25 U		<0.25 U	<2.5 U		<0.25 U	<0.25 U		<0.25 U		0.56	13	<0.25 U		<0.25 U	<0.25 U	<2.5 U		<2.5 U		0.75		<0.25 U	0.55	<0.25 U	<0.25 U	<0.25 U			<0.25 U	0.27 J	<0.25 U
	Arsenic	ug/L	Tier 1	22.3	15.3		1.4	6.2 J		3.6	3.7		3.9		20.1	502	12.9		10.3	8.9	79		72.7		0.6 J		2.6	1.9	<0.50 U	<0.50 U	<0.50 U			6.6	0.51 J	<0.50 U
	Barium	ug/L	Tier 1	426	76.1		37.1	24.3		41.2	80.3		47.7		84.8	<7.5 U	102		413	32.9	135		284		15.3		12.3	26.5	21.1	21.3	10.9			20.6	10.1	10
	Beryllium	ug/L	Tier 1	<0.50 U	<0.50 U		<0.50 U	<5.0 U		<0.50 U	<0.50 U		<0.50 U		<0.50 U	82.7	<0.50 U		<0.50 U	0.94 J	<5.0 U		<5.0 U		<0.50 U		<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U			<0.50 U	<0.50 U	<0.50 U
	Boron	ug/L	Tier 1	84	43.5		66.2	51.3 J		66.3	64.5		95.8		111	188	49.4		19.7	34.7	209		455		27.2		34.6	31.8	30.6	34.4	33.2			37.9	19.1	18.2
	Cadmium	ug/L	Tier 1	0.55	<0.25 U		<0.25 U	<2.5 U		<0.25 U	<0.25 U		<0.25 U		<0.25 U	129	<0.25 U		<0.25 U	<0.25 U	<2.5 U		<2.5 U		<0.25 U		<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U			<0.25 U	<0.25 U	<0.25 U
	Calcium	ug/L	Tier 1	99900	38500		34000	26800		84800	57600		185000		32900	333000	64400		204000	33400	32700		98400		9590		8660	17100	21800	21000	16900			11700	21300	21200
	Chromium	ug/L	Tier 1	<1.2 U	<1.2 U		<1.2 U	12.5 J		4.8	1.3 J		1.2 J		1.2 J	5100	<1.2 U		8.9	<1.2 U	<12.5 U		<12.5 U		<1.2 U		<1.2 U	<1.2 U	<1.2 U	1.3 J	<1.2 U			<1.2 U	<1.2 U	<1.2 U
	Cobalt	ug/L	Tier 1	101	3.1		2.6	174		102	10.6		14.9		<0.25 U	6500	0.37 J		9.8	0.42 J	7.1		14.9		0.49 J		11.7	0.56	1.2	1.3	0.51			0.37 J	0.9	0.9
	Copper	ug/L	Tier 1	2.4	<0.50 U		1.5	33.9		1.8	<0.50 U		1.5		<0.50 U	20400	0.65 J		10.6	1680	8.8 J		28.3		0.58 J		<0.50 U	2.3	3.3	1.7	1.2			1.3	2.0	1.4
	Cyanide	mg/L	Tier 1	<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U		<0.0060 U		0.0066 J	<0.036 U	<0.0060 U		0.0084 J	0.0064 J	0.007 J		0.0071 J		<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U	<0.0060 U	<0.0060 U			0.0064 J	<0.0060 U	<0.0060 U
	Iron	ug/L	Tier 1	76800	23900		3620	23500		131000	8750		199000		42900	4350000	71400		256000	9950	116000		104000		4870		2930	12100	150 J	174 J	1300			2560	351	340

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	KMW-2	KMW-3	KMW-3	KMW-4	KMW-5	KMW-6A	KMW-7	KMW-9	KMW-9	KMW-9P	KMW-9P	MW-101	MW-102	MW-103	MW-104	MW-11	MW-12	MW-5	MW-6	MW-601	MW-601	MW-602	MW-602	MW-603	MW-604	MW-605	MW-605	MW-606	MW-7	MW-9	P-602	P-604	P-604
	Lead	ug/L	Tier 1	0.26 J	<0.25 U		<0.25 U	6.4		<0.25 U	<0.25 U		<0.25 U		<0.25 U	<2.5 U	<0.25 U		0.62	80.6	9.1		6.5		<0.25 U		<0.25 U	0.62	0.42 J	<0.25 U	<0.25 U			0.31 J	<0.25 U	<0.25 U
	Lithium	ug/L	Tier 1	1.7	1.7		0.49 J	12.6		3.5	0.44 J		5.1		0.61	536	1.2		1.7	1.4	<2.5 U		5		6.5		8.4	2.4	1.9	2.1	4.5			4.4	0.4 J	0.45 J
	Magnesium	ug/L	Tier 1	38800	17800		12800	15100		42200	26300		77300		8950	493000	24300		95300	12500	11500		21500		7040		7280	7470	10300	9640	11300			6410	7850	8010
	Manganese	ug/L	Tier 1	12400	5220		3980	936		15700	12100		28300		7120	17900	5870		19600	979	3560		9450		2790		2000	1150	1690	1730	569			1770	18	17.7
	Mercury - low level	ng/L	Tier 1	2.57	0.957		0.577	4.71		0.703	0.404 J		0.328 J		0.946	37.7	0.421 J		3.24	0.318 J	5.04		18		0.208 J		0.305 J	1.26	0.95	0.851	0.659			0.671	0.7	0.68
	Molybdenum	ug/L	Tier 1	1.7	0.93		0.79	10		0.35 J	0.71		0.76		1.2	5.1	0.72		0.67	62.5	4.4 J		4.4 J		3.3		2.0	2.4	2.1	2.1	6.2			6.8	2.2	2.2
	Nickel	ug/L	Tier 1	259	0.66		4.6	32.6		79.9	17.3		1.0		<0.25 U	18200	1.6		10.6	0.43 J	24		22.4		10.9		99	<0.25 U	3.8	2.9	3.6			0.51	0.97	1.2
	Potassium	ug/L	Tier 1	4680	2540		2900	5530		6050	3320		7200		3610	927 J	4110		11800	1730	8510		11000		1980		2480	2090	2930	2630	2930			2490	1780	1780
	Selenium	ug/L	Tier 1	<1.2 U	<1.2 U		<1.2 U	<12.5 U		1.5 J	<1.2 U		<1.2 U		<1.2 U	15.2 J	1.2 J		1.4 J	<1.2 U	<12.5 U		<12.5 U		6.3		2.1 J	<1.2 U	<1.2 U	<1.2 U	<1.2 U			<1.2 U	<1.2 U	<1.2 U
	Silver	ug/L	Tier 1	<0.50 U	<0.50 U		<0.50 U	<5.0 U		<0.50 U	<0.50 U		<0.50 U		<0.50 U	<5.0 U	0.57 J		<0.50 U	<0.50 U	<5.0 U		<5.0 U		<0.50 U		<0.50 U	<0.50 U	1.5	<0.50 U	<0.50 U			<0.50 U	<0.50 U	<0.50 U
	Sodium	ug/L	Tier 1	7720	3310		3410	17900		4930	4040		6820		8330	1750 J	6140		46700	3540	33900		30600		428		326	5210	1070	924	335			709	1920	1800
	Thallium	ug/L	Tier 1	<0.25 U	<0.25 U		<0.25 U	<2.5 U		<0.25 U	<0.25 U		<0.25 U		<0.25 U	<2.5 U	<0.25 U		<0.25 U	<0.25 U	<2.5 U		<2.5 U		<0.25 U		<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U			<0.25 U	<0.25 U	<0.25 U
	Total Hardness	ug/L	Tier 1	409000	169000		138000	129000		385000	252000		781000		119000	2860000	261000		902000	135000	129000		334000		53000		51600	73400	96700	92100	88600			55600	85600	86000
	Vanadium	ug/L	Tier 1	0.45 J	0.39 J		<0.25 U	3.4 J		2.4	1.9		1.1		3.0	311	0.94		15.6	0.54	11.6		19.2		<0.25 U		<0.25 U	0.48 J	<0.25 U	0.33 J	<0.25 U			0.41 J	0.7	0.72
	Zinc	ug/L	Tier 1	76	<12.5 U		<12.5 U	<125 U		<12.5 U	<12.5 U		<12.5 U		<12.5 U	9470	<12.5 U		<12.5 U	168	<125 U		<125 U		<12.5 U		<12.5 U	<12.5 U	<12.5 U	<12.5 U	<12.5 U			<12.5 U	<12.5 U	<12.5 U
	Inorganics																																			
	Bicarbonate Alkalinity	mg/L	Tier 1	96.8	79.2		88	59.4		39.6	66		88		172	<3.2 U	83.6		504	147	273		444		46.2		32.8	83.6	96.8	99	70.4			68.2	88	88
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U	<3.2 U		<3.2 U	<3.2 U		<3.2 U	<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U			<3.2 U	<3.2 U	<3.2 U
	Chloride	mg/L	Tier 1	3.8 J	3.2 J		3.1 J	2.7 J		3.8 J	3.3 J		4.6 J		4.3 J	6.3	4.2 J		26.6	3.2 J	2.6 J		5.6		2.1 J		2.7 J	2.8 J	2.5 J	2.4 J	2.6 J			2.6 J	2.9 J	2.9 J
	Fluoride	mg/L	Tier 1	0.2 J	0.23 J		0.23 J	<0.059 U		0.26 J	0.19 J		0.21 J		0.42 J	0.62	0.21 J		0.36 J	<0.059 U	0.28 J		0.37 J		0.48 J		0.54	0.32 J	0.4 J	0.4 J	0.41 J			0.28 J	0.22 J	0.22 J
	Nitrogen, Ammonia	mg/L	Tier 1	0.92 J	0.77 J		0.51 J	<0.50 U		1.4	<0.50 U		1.2		1.7	<0.50 U	1.1		16.9	0.73 J	9.4		7.4		<0.50 U		<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U			<0.50 U	<0.50 U	<0.50 U
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U	<0.085 U		<0.085 U	1.9		<0.085 U	<0.085 U		<0.085 U		<0.085 U	0.63	<0.085 U		0.2 J	<0.085 U	<0.085 U		0.18 J		<0.085 U		<0.085 U	<0.085 U	0.26 J	0.25 J	<0.085 U			<0.085 U	<0.085 U	<0.085 U
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U	<0.036 U		<0.036 U	0.06 J		<0.036 U	<0.036 U		<0.036 U		<0.036 U	0.79	<0.036 U		<0.036 U	<0.036 U	<0.036 U		0.95		<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U			<0.036 U	<0.036 U	<0.036 U
	Sulfate	mg/L	Tier 1	520	154		85.6	115		646	253		1100		<0.51 U	14800	273		895	8.9	26.9		7.8		49.2		29.6	11.1	11.4	11.4	29			2.1 J	11	11
	Sulfide	mg/L	Tier 1	<2.3 U				<2.3 U		<2.3 U	4.2 J		2.4 J		3.4 J	<2.3 U	3.6 J		<2.3 U		<2.3 U				<2.3 U		<2.3 U							<2.3 U		
	Total Alkalinity	mg/L	Tier 1	96.8	79.2		88	59.4		39.6	66		88		172	<3.2 U	83.6		504	147	273		444		46.2		32.8	83.6	96.8	99	70.4			68.2	88	88
	VOC																																			
	1,1,1-Trichloroethane	ug/L	Tier 1																		<0.90 U															
	1,1,2,2-Tetrachloroethane	ug/L	Tier 1																		<0.20 U															
	1,1,2-Trichloroethane	ug/L	Tier 1																		<0.42 U															
	1,1-Dichloroethane	ug/L	Tier 1																		<0.75 U															
	1,1-Dichloroethene	ug/L	Tier 1																		<0.57 U															
	1,2-Dichloroethane	ug/L	Tier 1																		<0.36 U															
	1,2-Dichloroethene, Total	ug/l	Tier 1																		3.5															
	1,2-Dichloropropane	ug/L	Tier 1																		<0.46 U															
	2-Hexanone	ug/L	Tier 1																		<1.1 U															
	4-Methyl-2-pentanone	ug/L	Tier 1																		<1.2 U															
	Acetone	ug/L	Tier 1																		<2.3 U															
	Benzene	ug/L	Tier 1																		3.4															
	Bromodichloromethane	ug/L	Tier 1																		<0.56 U															
	Bromoform	ug/L	Tier 1																		<0.94 U															
	Bromomethane	ug/L	Tier 1																		<0.91 U															
	Carbon Disulfide	ug/L	Tier 1																		<0.66 U															
	Carbon Tetrachloride	ug/L	Tier 1																		<0.49 U															
	Chlorobenzene	ug/L	Tier 1																		<0.41 U															
	Chlorodibromomethane	ug/L	Tier 1																		<0.81 U															
	Chloroethane	ug/L	Tier 1																		<0.97 U															
	Chloroform	ug/L	Tier 1																		<0.37 U															
	Chloromethane	ug/L	Tier 1																		<0.24 U															
	cis-1,3-Dichloropropene	ug/L	Tier 1																		<0.19 U															
	Ethylbenzene	ug/l	Tier 1																		45.7															
	Methel ethyl Ketone	ug/L	Tier 1																		<4.3 U															
	Methylene Chloride	ug/L	Tier 1																		<0.43 U															
	Styrene	ug/L	Tier 1																		<0.86 U															
	Tetrachloroethene	ug/L	Tier 1																		<0.45 U															
	Toluene	ug/L	Tier 1																		1.1															
	trans-1,3-Dichloropropene	ug/L	Tier 1																		<0.19 U															
	Trichloroethene	ug/L	Tier 1																		<0.48 U															
	Vinyl Chloride	ug/L	Tier 1																		<0.18 U															
	Xylenes	ug/l	Tier 1																		595															
	VOC-PAH																																			
	Naphthalene	ug/L	Tier 1																		17															
7/15/2008	**Field Measurement**																																			
	Conductivity	mmhos	Tier 1	703	227		160	i		636	294		870		231	i	480		1221	189	i		i		75		65	143	94		78			70	84	
	Depth to Water	ft	Tier 1	6.26	13.91		25.47	39.08	39.54	22.88	22.88		22.75		4.39	6.27	8.38	7.25	6.58	4.81	6.35	20.5	4.53		14.47		16.84	6.24	6.25		10.48	20.4	24.97	14.4	6.56	
	Dissolved Oxygen	mg/L	Tier 1	<0.005	<0.005		<0.005	i		<0.005	<0.005		<0.005		<0.005	i	<0.05		0.4	<0.005	i		i		4.47		1.87	<0.005	2.4		3.63			<0.005	4.74	
	GW Elevation	ft msl	Tier 1	1582.93	1576.67		1561.15	1558.8	1558.93	1559.62	1558.52		1558.72		1596.02	1590.55	1587.66	1584.28	1587.68	1585.45	1582.73	1570.18	1598.54		1606.94		1596.96	1589.32	1590.43		1604.62	1568.79	1589.1	1606.92	1588.86	
	ORP	mV	Tier 1	-57.9	-44.5		-158.4	i		-96.4	-177.5		-161.2		-98.2	i	-115.3		-92.9	-113.9	i		i		-3.4		86.9	-159.1	1.5		50.1			-165.8	-21.6	
	pH	S.U.	Tier 1	6.4	6.53		6.86	i		6.45	6.76		6.77		6.59	i	6.42		6.47	6.93	i		i		6.49		6.1	7.07	6.91		6.69			7.52	6.9	
	Specific Conductance	@25 degrees C	Tier 1	847	339		249	i		948	445		1309		332	i	705		1562	250	i		i		109		92	190	126		108			99	124	
	Temperature	Celcius	Tier 1	16.51	8.49		7.1	i		8.53	8.04		8.25		9.08	i	8.39		14.09	12.19	i		i		8.77		9.58	12.57	12.11		10.58			10.27	9.01	
	Turbidity	NTU	Tier 1	12	4.71		15	i		7	1		5		11.4	i	<1		22.9	NM	i		i		1		<1	4	1		4.44			NM	2	
	Metal																																			
	Aluminum	ug/L	Tier 1	44.4	54		13 J	1530		24.5	14.4 J	13.8 J	10.7 J		462	491000	8.8		1160	9.0	442		8000	7320	8.9		19.1	53.8	<10.0 U		33.9			189	46.4	
	Antimony	ug/L	Tier 1	<0.050 U	<0.050 U		<0.25 U	1.2		<0.25 U	<0.25 U	<0.25 U	<0.25 U		0.1 J	17.8	<0.050 U		0.18	<0.050 U	0.18		0.6	0.52	<0.050 U		<0.050 U	<0.25 U	<0.25 U		0.095 J			<0.050 U	<0.25 U	
	Arsenic	ug/L	Tier 1	40.1	18		1.5	5.4		4.6	4.1	4.2	3.7		23.2	455	12.8		8.7	9.4	141		135	122	0.42		1.5	4.6	<0.50 U		0.21			8.1	<0.50 U	
	Barium	ug/L	Tier 1	407	73.2		37.5	19.2		46.2	87.8	89.3	45.8		77.2	1.2	112		394	33	166		343	313	13.2		11.9	36.1	16		14.4			18.6	8.2	
	Beryllium	ug/L	Tier 1	<0.10 U	<0.10 U		<0.50 U	0.2 J		<0.50 U	<0.50 U	<0.50 U	<0.50 U		0.085 J	58.2	<0.10 U		<0.070 U	7.2	<0.070 U		0.66	0.51	<0.10 U		<0.10 U	<0.50 U	<0.50 U		<0.10 U			0.1 J	<0.50 U	
	Boron	ug/L	Tier 1	72.6	40.9		58.4	71.4		70.5	58.4	55.9	89.7		84.2	297	41.8		15.8	32	299		546	506	26.4		33.4	47.2	36.7		27.8			34.8	17.1	
	Cadmium	ug/L	Tier 1	0.41	<0.050 U		<0.25 U	0.13 J		<0.25 U	<0.25 U	<0.25 U	<0.25 U		<0.048 U	124	<0.050 U		0.05 J	<0.050 U	0.12 J		0.37	0.35	<0.050 U		<0.050 U	<0.25 U	<0.25 U		<0.050 U			<0.050 U	<0.25 U	
	Calcium	ug/L	Tier 1	110000	38500		37400	33600		110000	68700	70600	194000		33700	388000	73200		197000	41400	41400		109000	99600	9490		8160	24700	20100		11200			11900	21300	
	Chromium	ug/L	Tier 1	0.73	0.49 J		<1.2 U	12		<1.2 U	<1.2 U	<1.2 U	<1.2 U		2.1	6350	0.83		9.9	0.28 J	8.9		25.8	21.9	0.45 J		<0.25 U	<1.2 U	<1.2 U		0.32 J			0.85	<1.2 U	

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	KMW-2	KMW-3	KMW-3	KMW-4	KMW-5	KMW-6A	KMW-7	KMW-9	KMW-9	KMW-9P	KMW-9P	MW-101	MW-102	MW-103	MW-104	MW-11	MW-12	MW-5	MW-6	MW-601	MW-601	MW-602	MW-602	MW-603	MW-604	MW-605	MW-605	MW-606	MW-7	MW-9	P-602	P-604	P-604
	Cobalt	ug/L	Tier 1	81.3	2.9		3.2	189		123	11	11.3	22.3		0.64	7670	0.51		10.6	1.7	6.2		18.8	14.9	0.44		9.7	0.9	0.76		0.48			0.65	0.64	
	Copper	ug/L	Tier 1	0.48	0.33		<0.50 U	7.9		<0.50 U	<0.50 U	<0.50 U	<0.50 U		1.4	16500	<0.10 U		5	7270	1.6		37.1	29.5	0.5		0.35	2.2	1.1		1.5			2.0	0.88 J	
	Cyanide	mg/L	Tier 1	<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U	0.0069 J	<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U	0.0066 J	0.0063 J		<0.0060 U			<0.0060 U	0.0074 J	
	Iron	ug/L	Tier 1	122000	24700		3690	15500		152000	10700	10900	186000		38800	5440000	81600		264000	10500	120000		112000	111000	4680		1700	14800	<125 U		501			3120	173 J	
	Lead	ug/L	Tier 1	0.068 J	0.093 J		<0.25 U	1.9		<0.25 U	<0.25 U	<0.25 U	<0.25 U		0.28 J	0.92 J	<0.050 U		0.81 J	146	4.5		9.0	8.4	<0.050 U		<0.050 U	<0.25 U	<0.25 U		<0.050 U			0.32	<0.25 U	
	Lithium	ug/L	Tier 1	2.3	1.7		0.63	10		3.6	0.35 J	0.38 J	5.1		0.86	462	0.94		2.6	1.4	0.31		6.8	6.5	6.2		7.6	3.8	2.2		3.8			5	0.28 J	
	Magnesium	ug/L	Tier 1	43900	17100		14000	19100		55800	32800	33500	82000		9420	563000	26100		88600	13000	13300		25400	22800	6980		7050	11000	9060		8850			6490	8360	
	Manganese	ug/L	Tier 1	13500	5180		4020	977		17400	12100	12100	30800		5970	21000	6440		17500	1210	3530		8320	8340	2920		1470	1500	1050		612			1880	8.0	
	Mercury - low level	ng/L	Tier 1	1.81	1.15		1.09	2.11		0.992	1.12	0.404 J	0.636		1.49	95.4	0.389 J		26.3	1.41	5.72		7.4	7.49	1.19		0.317 J	1.05	0.918		0.653			1.22	1.16	
	Molybdenum	ug/L	Tier 1	1.1	1.1		0.88	7.6		<0.25 U	0.48 J	0.4 J	<0.25 U		0.9	8.4	0.45		0.3	99.3	4.2		8.8	7.9	3.7		2.1	2.3	1.8		7.9			4.0	3.1	
	Nickel	ug/L	Tier 1	181	0.44		4.9	21.9		108	17.9	17.6	0.32 J		0.94	20500	0.1		1.2	0.67	14.8		31.1	21	12.3		103	0.42 J	2.1		5.7			1.2	1.1	
	Potassium	ug/L	Tier 1	5940	2530		3080	4800		6560	3770	3880	7920		4030	89.6	4040		13400	1800	8460		12600	11400	1900		2140	3080	3020		2730			2570	1860	
	Selenium	ug/L	Tier 1	<0.25 U	<0.25 U		<1.2 U	0.42 J		<1.2 U	<1.2 U	<1.2 U	<1.2 U		<0.38 U	21.6	<0.25 U		0.92 J	<0.25 U	0.87 J		1.8	1.6	1.7		2.0	<1.2 U	<1.2 U		13.5			<0.25 U	<1.2 U	
	Silver	ug/L	Tier 1	<0.10 U	<0.10 U		<0.50 U	<0.10 U		<0.50 U	<0.50 U	<0.50 U	<0.50 U		0.2 J	1.4	<0.10 U		<0.10 U	<0.10 U	<0.10 U		0.43	0.1 J	0.12 J		0.11 J	<0.50 U	<0.50 U		0.1 J			<0.10 U	<0.50 U	
	Sodium	ug/L	Tier 1	7280	3120		3650	22600		5560	4200	4350	7160		7280	2390	6010		47900	3470	43400		34200	30700	370		418	3420	796		349			706	1710	
	Thallium	ug/L	Tier 1	<0.050 U	<0.050 U		<0.25 U	0.13		<0.25 U	<0.25 U	<0.25 U	<0.25 U		0.04	0.04	<0.050 U		0.05	<0.050 U	0.045		0.16	0.12	<0.050 U		<0.050 U	<0.25 U	<0.25 U		<0.050 U			<0.050 U	<0.25 U	
	Total Hardness	ug/L	Tier 1	456000	166000		151000	162000		503000	306000	314000	823000		123000	3290000	290000		857000	157000	158000		377000	343000	52400		49400	107000	87400		64400			56500	87700	
	Vanadium	ug/L	Tier 1	0.58	0.69		0.31 J	2.7		4.0	1.8	1.8	1.3		4.2	378	2.2		15.6	0.52	19.2		33.3	30.7	0.081 J		0.1	0.5	<0.25 U		0.23			0.51	0.65	
	Zinc	ug/L	Tier 1	70	<2.5 U		<12.5 U	3.7 J		<12.5 U	<12.5 U	<12.5 U	<12.5 U		<2.8 U	9910	<2.5 U		<2.8 U	146	18.8		57.6	46.4	<2.5 U		2.9 J	<12.5 U	<12.5 U		<2.5 U			<2.5 U	<12.5 U	
	Inorganics																																			
	Bicarbonate Alkalinity	mg/L	Tier 1	59.4	88		88	68.2		68.2	72.6	74.8	125		158	<3.2 U	94.6		495	156	284		429	427	26.4		30.8	114	83.6		35.2			63.8	81.4	
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U	<3.2 U		<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U			<3.2 U	<3.2 U	
	Chloride	mg/L	Tier 1	4.3 J	3.2 J		3.1 J	2.9 J		3.9 J	3.5 J	3.5 J	4.8 J		4.4 J	6.6	4.7 J		38.7	3.7 J	5.5		5.5	5.4	2.5 J		2.8 J	2.8 J	2.5 J		2.6 J			2.6 J	2.8 J	
	Fluoride	mg/L	Tier 1	0.31 J	0.25 J		0.24 J	<0.059 U		0.23 J	0.21 J	0.21 J	0.2 J		0.38 J	8.7	0.3 J		0.26 J	0.23 J	0.24 J		0.46 J	0.47 J	0.46 J		0.53	0.39 J	0.39 J		0.33 J			0.27 J	0.25 J	
	Nitrogen, Ammonia	mg/L	Tier 1	1.2	0.6 J		<0.50 U	<0.50 U		1.4	0.56 J	0.53 J	1.5		2.1	<0.50 U	1.0		17.5	0.63 J	10.6		9.5	9.1	<0.50 U		<0.50 U	<0.50 U	<0.50 U		<0.50 U			<0.50 U	<0.50 U	
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U	<0.085 U		<0.085 U	1.7		<0.085 U	<0.085 U	<0.085 U	<0.085 U		<0.085 U	<0.085 U	<0.085 U		<0.085 U	<0.085 U	<0.085 U		<0.085 U	<0.085 U	<0.085 U		<0.085 U	<0.085 U	0.17 J		0.39 J			<0.085 U	0.15 J	
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U	<0.036 U		<0.036 U	<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U		<0.036 U	0.46	<0.036 U		<0.036 U	<0.036 U	<0.036 U		<0.036 U	<0.036 U	<0.036 U		<0.036 U	<0.036 U	<0.036 U		<0.036 U			<0.036 U	<0.036 U	
	Sulfate	mg/L	Tier 1	562	109		80.4	102		679	264	266	977		2.2 J	17400	287		886	9.5	2.4 J		17.8	5.2	37.2		23.2	7.4	8.4		27.3			2.2 J	10.7	
	Sulfide	mg/L	Tier 1	<2.3 U				<2.3 U		<2.3 U	2.6 J	3.2 J	<2.3 U		<2.3 U	<2.3 U	<2.3 U		<2.3 U		<2.3 U				<2.3 U		<2.3 U							<2.3 U	<2.3 U	
	Total Alkalinity	mg/L	Tier 1	59.4	88		88	68.2		68.2	72.6	74.8	125		158	<3.2 U	94.6		495	156	284		429	427	26.4		30.8	114	83.6		35.2			63.8	81.4	
	VOC																																			
	1,1,1-Trichloroethane	ug/L	Tier 1																		<0.90 U															
	1,1,2,2-Tetrachloroethane	ug/L	Tier 1																		<0.20 U															
	1,1,2-Trichloroethane	ug/L	Tier 1																		<0.42 U															
	1,1-Dichloroethane	ug/L	Tier 1																		<0.75 U															
	1,1-Dichloroethene	ug/L	Tier 1																		<0.57 U															
	1,2-Dichloroethane	ug/L	Tier 1																		<0.36 U															
	1,2-Dichloroethene, Total	ug/l	Tier 1																		5.4															
	1,2-Dichloropropane	ug/L	Tier 1																		<0.46 U															
	2-Hexanone	ug/L	Tier 1																		<1.1 U															
	4-Methyl-2-pentanone	ug/L	Tier 1																		<1.2 U															
	Acetone	ug/L	Tier 1																		3.4 J															
	Benzene	ug/L	Tier 1																		4.2															
	Bromodichloromethane	ug/L	Tier 1																		<0.56 U															
	Bromoform	ug/L	Tier 1																		<0.94 U															
	Bromomethane	ug/L	Tier 1																		<0.91 U															
	Carbon Disulfide	ug/L	Tier 1																		1.6															
	Carbon Tetrachloride	ug/L	Tier 1																		<0.49 U															
	Chlorobenzene	ug/L	Tier 1																		<0.41 U															
	Chlorodibromomethane	ug/L	Tier 1																		<0.81 U															
	Chloroethane	ug/L	Tier 1																		<0.97 U															
	Chloroform	ug/L	Tier 1																		<0.37 U															
	Chloromethane	ug/L	Tier 1																		<0.24 U															
	cis-1,3-Dichloropropene	ug/L	Tier 1																		<0.19 U															
	Ethylbenzene	ug/l	Tier 1																		54.3															
	Methel ethyl Ketone	ug/L	Tier 1																		<4.3 U															
	Methylene Chloride	ug/L	Tier 1																		<0.43 U															
	Styrene	ug/L	Tier 1																		<0.86 U															
	Tetrachloroethene	ug/L	Tier 1																		<0.45 U															
	Toluene	ug/L	Tier 1																		1.1															
	trans-1,3-Dichloropropene	ug/L	Tier 1																		<0.19 U															
	Trichloroethene	ug/L	Tier 1																		<0.48 U															
	Vinyl Chloride	ug/L	Tier 1																		<0.18 U															
	Xylenes	ug/l	Tier 1																		506															
	VOC-PAH																																			
	Naphthalene	ug/L	Tier 1																		18.7															
10/13/2008	**Field Measurement**																																			
	Conductivity	mmhos	Tier 1	467	521		362	i		1273	484		1589		254	i	459		1529	327	i		i		184		115	273	212		130			127	207	
	Depth to Water	ft	Tier 1	8	16.38		27.59	41.48	41.13	24.61	24.41		24.27		7.79	7.76	9.45	10.22	6.42	5.68	8.49	23.78	7.65		16.99		16.96	6.86	7.46		11.98	24.43	27.6	16.91	7.43	
	Dissolved Oxygen	mg/L	Tier 1	<0.005	0.005		0.005	i		<0.005	<0.005		<0.005		<0.005	i	<0.005		NM	<0.005	i		i		2.06		0.05	0.005	0.015		3.46			0.05	1.28	
	GW Elevation	ft msl	Tier 1	1581.19	1574.2		1559.03	1556.4	1557.34	1557.89	1556.99		1557.2		1592.62	1589.06	1586.59	1581.31	1587.84	1584.58	1580.59	1566.9	1595.42		1604.42		1596.84	1588.7	1589.22		1603.12	1564.76	1586.47	1604.41	1587.99	
	ORP	mV	Tier 1	-114.8	-72.1		-9.6	i		-3.8	21.1		-63.1		-100.4	i	-112.4		-48.5	-121.7	i		i		-9.2		46.2	-112.2	-16.5		95.5			-183.8	36.4	
	pH	S.U.	Tier 1	6.7	6.63		6.49	i		5.98	6.2		6.37		6.7	i	6.6		6.1	7.01	i		i		6.69		6.24	6.81	6.92		6.77			7.53	6.84	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	594	757		550	i		1837	704		2382		340	i	650		1950	448	i		i		250		155	366	285		173			175	283	
	Temperature	Celcius	Tier 1	13.89	8.64		7.12	i		8.93	8.62		8.35		11.82	i	9.63		13.65	10.83	i		i		11.2		11.46	12.24	11.76		11.99			9.91	10.97	
	Turbidity	NTU	Tier 1	<1	<1		<1	i		<1	<1		NM		5.5	i	<1		22	<1	i		i		<1		<1	2.1	<1		<1			2.8	<1	
	Metal																																			
	Aluminum	ug/L	Tier 1	161 J	5.4 J		8.6 J	462		21.8 J	9.7 J	26.5 J	<4.5 U		263	368000	14.3 J		904	<4.5 U	489		10800		6.3 J	5.8 J	15.4 J	39.4 J	5.5 J	5.3 J	36.4 J			141 J	5.9 J	
	Antimony	ug/L	Tier 1	<0.071 U	<0.071 U		<0.071 U	1.3		<0.071 U	<0.071 U	0.088 J	<0.071 U		<0.071 U	34.9	<0.071 U		<0.071 U	<0.071 U	2.1		0.98 J		<0.071 U	<0.071 U	<0.071 U	<0.071 U	0.18 J	0.16 J	<0.071 U			<0.071 U	<0.071 U	
	Arsenic	ug/L	Tier 1	37.6	18.1		1.3	4.1		4.7	3.7	4.3	3.3		27.8	491	13.8		9.7	10.5	137		368		<0.17 U	<0.17 U	2	5.5	0.67 J	0.79 J	<0.17 U			7.9	<0.17 U	
	Barium	ug/L	Tier 1	360	90.7		40.5	15.3		46.8	55.4	57.5	39.2		77.5	27.8	98.5		398	33.9	200		274		10.6	11.6	8.5	35.1	28.2	28.7	12.9			19.4	8.8	

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	KMW-2	KMW-3	KMW-3	KMW-4	KMW-5	KMW-6A	KMW-7	KMW-9	KMW-9	KMW-9P	KMW-9P
	Beryllium	ug/L	Tier 1	<0.41 U	<0.41 U		<0.41 U	<0.41 U		<0.41 U	<0.41 U	<0.41 U	<0.41 U	
	Boron	ug/L	Tier 1	58.4	42.4		53.4	64.5		78.6	59.6	58.4	80.4	
	Cadmium	ug/L	Tier 1	<0.087 U	<0.087 U		<0.087 U	<0.087 U		<0.087 U	<0.087 U	<0.087 U	<0.087 U	
	Calcium	ug/L	Tier 1	66700	51100		42400	30500		109000	50300	52200	172000	
	Chromium	ug/L	Tier 1	1.2	0.77 J		0.58 J	4.2		1.3	0.99 J	1.2	0.69 J	
	Cobalt	ug/L	Tier 1	6.6	3.2		3.4	169		116	6.7	6.8	23.3	
	Copper	ug/L	Tier 1	0.66 J	<0.50 U		0.89 J	4.5		<0.50 U	<0.50 U	<0.50 U	<0.50 U	
	Cyanide	mg/L	Tier 1	<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U	<0.0060 U	
	Iron	ug/L	Tier 1	40900	30000		3460	10000		156000	5690	5960	172000	
	Lead	ug/L	Tier 1	<0.50 U	<0.50 U		<0.50 U	0.73 J		<0.50 U	<0.50 U	<0.50 U	<0.50 U	
	Lithium	ug/L	Tier 1	1.7	2		0.38 J	8.7		5	0.28 J	0.36 J	5.1	
	Magnesium	ug/L	Tier 1	23200	21700		15200	16500		53300	21000	21500	71600	
	Manganese	ug/L	Tier 1	6880	6060		4670	858		17600	8580	9120	24900	
	Mercury - low level	ng/L	Tier 1	0.843	0.242 J		0.574	0.818		0.414 J	0.393 J	0.537	0.313 J	
	Molybdenum	ug/L	Tier 1	2.1	0.79 J		0.65 J	5		0.17 J	0.40 J	0.92 J	0.21 J	
	Nickel	ug/L	Tier 1	11.4	0.51 J		5.8	23.7		103	11.4	11.3	0.46 J	
	Potassium	ug/L	Tier 1	4250	2900		3100	3880		6690	3230	3320	7270	
	Selenium	ug/L	Tier 1	<0.25 U	<0.25 U		<0.25 U	<0.25 U		1.1	<0.25 U	0.52 J	0.28 J	
	Silver	ug/L	Tier 1	<0.25 U	<0.25 U		<0.25 U	<0.25 U		<0.25 U	<0.25 U	<0.25 U	<0.25 U	
	Sodium	ug/L	Tier 1	5780	3810		3830	13600		5860	3420	3400	6500	
	Thallium	ug/L	Tier 1	<0.019 U	0.064 J		<0.019 U	0.053 J		0.047 J	<0.019 U	0.50 J	<0.019 U	
	Total Hardness	ug/L	Tier 1	262000	217000		168000	144000		492000	212000	219000	725000	
	Vanadium	ug/L	Tier 1	0.62 J	<0.45 U		<0.45 U	0.49 J		3.8	1.7	2	0.67 J	
	Zinc	ug/L	Tier 1	5.3	3.1 J		3.8 J	180		9.1	12.4	12.6	2.9 J	
	Inorganics													
	Bicarbonate Alkalinity	mg/L	Tier 1	104	82.1		88.6	60.5		67	73.4	73.4	82.1	
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U	<3.2 U		<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U	
	Chloride	mg/L	Tier 1	3.4 J	3.1 J		3.2 J	2.9 J		4.3 J	3.0 J	3.1 J	4.2 J	
	Fluoride	mg/L	Tier 1	0.23 J	0.24 J		0.25 J	0.20 J		0.27 J	0.22 J	0.21 J	0.20 J	
	Nitrogen, Ammonia	mg/L	Tier 1	0.61	0.63 J		<0.50 U	<0.50 U		1.4	<0.50 U	<0.50 U	1.2	
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U	<0.085 U		<0.085 U	0.98		<0.085 U	<0.085 U	<0.085 U	<0.085 U	
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U	<0.036 U		<0.036 U	0.060 J		<0.036 U	<0.036 U	<0.036 U	<0.036 U	
	Sulfate	mg/L	Tier 1	229	178		107	119		684	180	174	880	
	Sulfide	mg/L	Tier 1	<2.3 U				<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U	
	Total Alkalinity	mg/L	Tier 1	104	82.1		88.6	60.5		67	73.4	73.4	82.1	
	VOC													
	Benzene	ug/L	Tier 1											
	Ethylbenzene	ug/l	Tier 1											
	Toluene	ug/L	Tier 1											
	Xylenes, m + p	ug/L	Tier 1											
	Xylenes, o	ug/l	Tier 1											

EventDate	Parameter	MW-101	MW-102	MW-103	MW-104	MW-11	MW-12	MW-5	MW-6	MW-601	MW-601	MW-602	MW-602	MW-603	MW-604	MW-605	MW-605	MW-606	MW-7	MW-9	P-602	P-604	P-604
	Beryllium	<0.41 U	49.9	<0.41 U		<0.41 U	<0.41 U	<0.41 U		0.77 J		<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U			<0.41 U	<0.41 U	
	Boron	90.9	282	43.8		25.8 J	35.6	215		1060		29.9	31.4	31.3	53.6	49.9	47.6	26			33	24.7	
	Cadmium	<0.087 U	77.6	<0.087 U		<0.087 U	<0.087 U	<0.087 U		0.24 J		<0.087 U	<0.087 U	<0.087 U	<0.087 U	0.29 J	0.26 J	<0.087 U			<0.087 U	<0.087 U	
	Calcium	33700	424000	67600		220000	37100	42700		81500		12100	12300	7170	24400	19300	19700	9110			12000	25400	
	Chromium	1.8	2950	0.70 J		9.4	0.49 J	10.1		28.7		<0.30 U	<0.30 U	0.41 J	0.49 J	<0.30 U	0.65 J	<0.30 U			1.4	0.34 J	
	Cobalt	0.37 J	6030	0.32 J		10.3	0.30 J	2.8		13.2		0.52 J	0.54 J	9	0.70 J	1.4	1.4	0.11 J			0.30 J	0.40 J	
	Copper	218	7710	<0.50 U		1.4	156	1.3		36.2		<0.50 U	<0.50 U	<0.50 U	0.51 J	1.9	2	1.1			1.1	0.59 J	
	Cyanide	<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U		<0.0060 U		<0.0060 U	<0.0060 U	<0.0060 U	<0.0060 U	<0.0060 U	<0.0060 U	<0.0060 U			<0.0060 U	<0.0060 U	
	Iron	35200	4190000	66300		245000	10000	140000		117000		3400	3550	1890	15200	112 J	130 J	129 J			5050	37.1 J	
	Lead	9.9	47.1	<0.50 U		<0.50 U	3.1	2.6		10.9		<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U			<0.50 U	<0.50 U	
	Lithium	0.83 J	406	0.97 J		2.1	1.7	0.78 J		10		8.4	8.5	8.9	4.3	2.2	2.1	3.7			4.5	0.34 J	
	Magnesium	8630	510000	22500		86800	12900	13200		18100		9000	9250	5860	10200	10800	10800	8010			6400	9310	
	Manganese	6170	28700	5260		18300	1000	3830		7820		3620	3750	1670	1700	4070	4090	422			2180	6.5	
	Mercury - low level	1.15	112	0.165 J		6.53	0.248 J	2.82		1.91		0.266 J	0.268 J	0.197 J	0.304 J	1.35	1.26	0.349 J			0.244 J	0.332 J	
	Molybdenum	5.7	17.2	0.60 J		0.12 J	1.8	2.6		17.5		3	3.1	2.1	1.8	3.9	3.8	16.8			5.3	1.9	
	Nickel	0.85 J	16600	0.25 J		1.3	0.23 J	25.3		33.5		15.9	16.1	91.1	0.38 J	3.7	4	3.2			1.1	1	
	Potassium	4130	2890	3890		14100	1950	11600		12300		2270	2340	2280	2970	4330	4360	2650			2730	2140	
	Selenium	0.29 J	79.5	<0.25 U		1.1	<0.25 U	1.1		2.9		0.78 J	0.74 J	1.6	<0.25 U	<0.25 U	0.38 J	12.6			<0.25 U	<0.25 U	
	Silver	<0.25 U	4.0 J	<0.25 U		<0.25 U	<0.25 U	<0.25 U		<0.25 U		<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U			<0.25 U	<0.25 U	
	Sodium	6920	5110	5850		44700	3890	46700		44400		450	462	433	1540	886	888	357			761	1990	
	Thallium	<0.019 U	<0.19 U	<0.019 U		0.034 J	0.22 J	<0.019 U		0.14 J		0.094 J	0.12 J	0.088 J	0.088 J	0.54 J	0.58 J	0.12 J			0.086 J	0.068 J	
	Total Hardness	120000	3160000	262000		907000	146000	161000		278000		67300	68900	42000	103000	92600	93400	55700			56200	102000	
	Vanadium	3.4	187	1.8		16.5	0.49 J	20.7		45.6		<0.45 U	<0.45 U	0.75 J	<0.45 U	<0.45 U	<0.45 U	<0.45 U			<0.45 U	<0.45 U	
	Zinc	106	11000	3.6 J		7.2	11.1	24.9		72.1		6.8	7.8	6.3	3.7 J	4.4 J	4.3 J	4.8 J			3.5 J	4.7 J	
	Inorganics																						
	Bicarbonate Alkalinity	156	<3.2 U	77.8		445	145	315		382		25.9	47.5	19.4	112	97.2	99.4	34.6			62.6	92.9	
	Carbonate Alkalinity	<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U			<3.2 U	<3.2 U	
	Chloride	3.5 J	4.2 J	4.0 J		32.5	3.0 J	8.1		3.9 J		2.5 J	2.4 J	2.5 J	3.1 J	2.6 J	2.6 J	2.4 J			2.5 J	2.8 J	
	Fluoride	0.34 J	0.93	0.24 J		0.24 J	0.86	0.30 J		0.41 J		0.47 J	0.48 J	0.53	0.37 J	0.39 J	0.39 J	0.38 J			0.30 J	0.25 J	
	Nitrogen, Ammonia	1.5	<0.50 U	0.96 J		15.3	0.57 J	14.9		6.3		<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U			<0.50 U	<0.50 U	
	Nitrogen, Nitrate	<0.085 U	<0.085 U	<0.085 U		<0.085 U	<0.085 U	<0.085 U		<0.085 U		<0.085 U	<0.085 U	<0.085 U	0.15 J	<0.085 U	<0.085 U	0.29 J			<0.085 U	<0.085 U	
	Nitrogen, Nitrite	<0.036 U	1.1	<0.036 U		<0.036 U	<0.036 U	<0.036 U		<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U			<0.036 U	<0.036 U	
	Sulfate	1.9 J	14000	251		724	8.6	<0.51 U		2.2 J		51.3	52.2	24.4	3.5 J	7.5	7.6	22.9			2.2 J	10.2	
	Sulfide	<2.3 U	<2.3 U	<2.3 U		<2.3 U		<2.3 U				<2.3 U	<2.3 U	<2.3 U							<2.3 U	<2.3 U	
	Total Alkalinity	156	<3.2 U	77.8		445	145	315		382		25.9	47.5	19.4	112	97.2	99.4	34.6			62.6	92.9	
	VOC																						
	Benzene							5.5															
	Ethylbenzene							50.2															
	Toluene							3.8															
	Xylenes, m + p							252															
	Xylenes, o							290															

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	P-605	PW-1	PW-2	PW-4	TDP-001	TDP-002	Residential Commercial Drinking Water Criteria	Residential Commercial Code	Groundwater Contact Criteria	Groundwater Contact Criteria Code	GSI Protection	GSI Protection Code
				P-605	PW-1	PW-2	PW-4	TDP-001	TDP-002						
3/11/2008	**Field Measurement**														
	Depth to Water	ft	Tier 1	7.62	13.39	38.18	12.81	f	d						
	Dissolved Oxygen	mg/L	Tier 1	<0.005		i									
	GW Elevation	ft msl	Tier 1	1588.98	1576.04	1551.41	1579.22	f	d						
	ORP	mV	Tier 1	-128		i									
	pH	S.U.	Tier 1	7.2		i									
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	237		i									
	Temperature	Celcius	Tier 1	8.22		i									
	Turbidity	NTU	Tier 1	<1		i									
	Metal														
	Aluminum	ug/L	Tier 1	23.8 J		11100				50	V	64000000			NA
	Antimony	ug/L	Tier 1	<0.10 U		<1.0 U				6	A	68000		130	X
	Arsenic	ug/L	Tier 1	7.5		20.9				10	A	4300		150	X
	Barium	ug/L	Tier 1	29.8		107				2000	A	14000000			G,X
	Beryllium	ug/L	Tier 1	<0.070 U		<0.70 U				4	A	290000			G
	Boron	ug/L	Tier 1	49.3		96.7 J				500	F	62000000		1900	
	Cadmium	ug/L	Tier 1	<0.098 U		6.2 J				5	A	190000			G,X
	Calcium	ug/L	Tier 1	20500		72200									
	Chromium	ug/L	Tier 1	<0.43 U		16.8				100	A	460000		11	
	Cobalt	ug/L	Tier 1	1.4		229				40		2400000		100	
	Copper	ug/L	Tier 1	0.3 J		50.6				1000	E	7400000			G
	Cyanide	mg/L	Tier 1	<0.0060 U		<0.0060 U				0.2	A			0.0052	
	Iron	ug/L	Tier 1	4970		24300				300	E	58000000			NA
	Lead	ug/L	Tier 1	0.2 J		9.2 J				4	L		ID		G,X
	Lithium	ug/L	Tier 1	1.7		14.2				170		5400000		96	
	Magnesium	ug/L	Tier 1	10700		37000				400000		1000000000	D		NA
	Manganese	ug/L	Tier 1	3080		6280				50	E	9100000			G,X
	Mercury - low level	ng/L	Tier 1	0.396 J		8.62				2000	A	56000	S	1.3	
	Molybdenum	ug/L	Tier 1	4.6 J		6.9 J				73		970000		800	X
	Nickel	ug/L	Tier 1	0.54 J		615				100	A	74000000			G
	Potassium	ug/L	Tier 1	4700		5700									
	Selenium	ug/L	Tier 1	<0.15 U		4.7 J				50	A	970000		5	
	Silver	ug/L	Tier 1	<0.11 U		<1.1 U				34		1500000		0.2	M
	Sodium	ug/L	Tier 1	1090		4330 J				120000		1000000000	D		NA
	Thallium	ug/L	Tier 1	<0.030 U		<0.30 U				2	A	13000		3.7	X
	Total Hardness	ug/L	Tier 1	95300		333000									
	Vanadium	ug/L	Tier 1	0.48 J		29.1				4.5		970000		12	
	Zinc	ug/L	Tier 1	4.0 J		243				2400		110000000			G
	Inorganics														
	Bicarbonate Alkalinity	mg/L	Tier 1	129		169									
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U		<3.2 U									
	Chloride	mg/L	Tier 1	2.5 J		3.4 J				250	E		ID		FF
	Fluoride	mg/L	Tier 1	0.48 J		0.31 J									
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U		<0.50 U				10	N		ID		CC
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U		0.55				10	A,N	310000			NA
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U		<0.036 U				1	A,N		ID		NA
	Sulfate	mg/L	Tier 1	7.2		151				250	E		ID		NA
	Sulfide	mg/L	Tier 1	<2.3 U		<2.3 U									
	Total Alkalinity	mg/L	Tier 1	129		169									
	VOC														
	Benzene	ug/L	Tier 1							5	A	11000		200	X
	Ethylbenzene	ug/l	Tier 1							74	E			18	
	Toluene	ug/L	Tier 1							790	E	530000	S	140	
	Xylenes, m + p	ug/L	Tier 1							280	E	190000	S	35	
	xylenes, o	ug/L	Tier 1							280	E	190000	S	35	
5/20/2008	**Field Measurement**														
	Conductivity	mmhos	Tier 1	166		412									
	Depth to Water	ft	Tier 1					6.15	2.05						
	Dissolved Oxygen	mg/L	Tier 1	<0.05		0.6									
	GW Elevation	ft msl	Tier 1					1597.85	1608.75						
	ORP	mV	Tier 1	-120		109									
	pH	S.U.	Tier 1	7.22		6.28									
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	246		591									
	Temperature	Celcius	Tier 1	8.06		9.1									
	Turbidity	NTU	Tier 1	<1		<1									
	Metal														
	Aluminum	ug/L	Tier 1	10 J		12.1 J				50	V	64000000			NA
	Antimony	ug/L	Tier 1	<0.25 U		0.53				6	A	68000		130	X
	Arsenic	ug/L	Tier 1	9.9		<0.50 U				10	A	4300		150	X
	Barium	ug/L	Tier 1	32		23.8				2000	A	14000000			G,X
	Beryllium	ug/L	Tier 1	<0.50 U		<0.50 U				4	A	290000			G
	Boron	ug/L	Tier 1	41.5		77.7				500	F	62000000		1900	
	Cadmium	ug/L	Tier 1	<0.25 U		2.8				5	A	190000			G,X
	Calcium	ug/L	Tier 1	22800		66600									
	Chromium	ug/L	Tier 1	<1.2 U		<1.2 U				100	A	460000		11	
	Cobalt	ug/L	Tier 1	1.8		18.5				40		2400000		100	
	Copper	ug/L	Tier 1	<0.50 U		2.8				1000	E	7400000			G
	Cyanide	mg/L	Tier 1	<0.0060 U		<0.0060 U				0.2	A			0.0052	
	Iron	ug/L	Tier 1	5870		<125 U				300	E	58000000			NA

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	P-605	PW-1	PW-2	PW-4	TDP-001	TDP-002	Residential Commercial Drinking Water Criteria	Residential Commercial Code	Groundwater Contact Criteria	Groundwater Contact Criteria Code	GSI Protection	GSI Protection Code
	Lead	ug/L	Tier 1	<0.25 U		<0.25 U				4	L		ID		G,X
	Lithium	ug/L	Tier 1	1.9		7.4				170		5400000		96	
	Magnesium	ug/L	Tier 1	11800		27700				400000		1000000000	D		NA
	Manganese	ug/L	Tier 1	3680		2060				50	E	9100000			G,X
	Mercury - low level	ng/L	Tier 1	0.201 J		1.33				2000	A	56000	S	1.3	
	Molybdenum	ug/L	Tier 1	5.7		0.42 J				73		970000		800	X
	Nickel	ug/L	Tier 1	0.3 J		73.4				100	A	74000000			G
	Potassium	ug/L	Tier 1	4400		3050									
	Selenium	ug/L	Tier 1	<1.2 U		<1.2 U				50	A	970000		5	
	Silver	ug/L	Tier 1	<0.50 U		<0.50 U				34		1500000		0.2	M
	Sodium	ug/L	Tier 1	1600		4460				120000		1000000000	D		NA
	Thallium	ug/L	Tier 1	<0.25 U		<0.25 U				2	A	13000		3.7	X
	Total Hardness	ug/L	Tier 1	106000		280000									
	Vanadium	ug/L	Tier 1	0.52		0.36 J				4.5		970000		12	
	Zinc	ug/L	Tier 1	<12.5 U		47.4				2400		110000000			G
	Inorganics														
	Bicarbonate Alkalinity	mg/L	Tier 1	132		152									
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U		<3.2 U									
	Chloride	mg/L	Tier 1	2.9 J		4.3 J				250	E		ID		FF
	Fluoride	mg/L	Tier 1	0.41 J		0.26 J									
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U		<0.50 U				10	N		ID		CC
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U		<0.085 U				10	A,N	310000			NA
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U		<0.036 U				1	A,N		ID		NA
	Sulfate	mg/L	Tier 1	4.3		181				250	E		ID		NA
	Sulfide	mg/L	Tier 1	<2.3 U		<2.3 U									
	Total Alkalinity	mg/L	Tier 1	132		152									
	VOC														
	1,1,1-Trichloroethane	ug/L	Tier 1							200	A	1300000	S	200	
	1,1,2,2-Tetrachloroethane	ug/L	Tier 1							8.5		4700		78	X
	1,1,2-Trichloroethane	ug/L	Tier 1							5	A	21000		330	X
	1,1-Dichloroethane	ug/L	Tier 1							880		2400000		740	
	1,1-Dichloroethene	ug/L	Tier 1							7	A	11000		65	X
	1,2-Dichloroethane	ug/L	Tier 1							5	A	19000		360	X
	1,2-Dichloroethene, Total	ug/l	Tier 1												
	1,2-Dichloropropane	ug/L	Tier 1							5	A	16000		290	X
	2-Hexanone	ug/L	Tier 1							1000		5200000			NA
	4-Methyl-2-pentanone	ug/L	Tier 1							1800		13000000			ID
	Acetone	ug/L	Tier 1							730		31000000		1700	
	Benzene	ug/L	Tier 1							5	A	11000		200	X
	Bromodichloromethane	ug/L	Tier 1							80	A,W	14000			ID
	Bromoform	ug/L	Tier 1							80	A,W	140000			ID
	Bromomethane	ug/L	Tier 1							10		70000		35	
	Carbon Disulfide	ug/L	Tier 1							800		1200000	S		ID
	Carbon Tetrachloride	ug/L	Tier 1							5	A	4600		45	X
	Chlorobenzene	ug/L	Tier 1							100	A	86000		47	
	Chlorodibromomethane	ug/L	Tier 1							80	A,W	18000			ID
	Chloroethane	ug/L	Tier 1							430		440000			ID
	Chloroform	ug/L	Tier 1							80	A,W	150000		170	X
	Chloromethane	ug/L	Tier 1							260		490000			ID
	cis-1,3-Dichloropropene	ug/L	Tier 1							8.5					NA
	Ethylbenzene	ug/l	Tier 1							74	E			18	
	Methel ethyl Ketone	ug/L	Tier 1							13000		240000000	S	2200	
	Methylene Chloride	ug/L	Tier 1							5	A	220000		940	X
	Styrene	ug/L	Tier 1							100	A	9700		80	
	Tetrachloroethene	ug/L	Tier 1							5	A	12000		45	X
	Toluene	ug/L	Tier 1							790	E	530000	S	140	
	trans-1,3-Dichloropropene	ug/L	Tier 1							8.5					NA
	Trichloroethene	ug/L	Tier 1							5	A	22000		200	X
	Vinyl Chloride	ug/L	Tier 1							2	A	1000		15	
	Xylenes	ug/l	Tier 1							280	E	190000	S	35	
	VOC-PAH														
	Naphthalene	ug/L	Tier 1							520		31000	S	13	
7/16/2008	**Field Measurement**														
	Conductivity	mmhos	Tier 1	117		366									
	Depth to Water	ft	Tier 1	6.15	8.37	36.44	7.75	Dry	2.13						
	Dissolved Oxygen	mg/L	Tier 1	<0.005		0.8									
	GW Elevation	ft msl	Tier 1	1590.45	1581.06	1553.15	1584.28	Dry	1608.67						
	ORP	mV	Tier 1	-141.9		72.8									
	pH	S.U.	Tier 1	7.38		6.19									
	Specific Conductance	@25 degrees C	Tier 1	177		517									
	Temperature	Celcius	Tier 1	7.96		9.67									
	Turbidity	NTU	Tier 1	7		<1									
	Metal														
	Aluminum	ug/L	Tier 1	30.2		18.6				50	V	64000000			NA
	Antimony	ug/L	Tier 1	<0.25 U		0.092 J				6	A	68000		130	X
	Arsenic	ug/L	Tier 1	10.2		0.2				10	A	4300		150	X
	Barium	ug/L	Tier 1	30.9		22.4				2000	A	14000000			G,X
	Beryllium	ug/L	Tier 1	<0.50 U		<0.10 U				4	A	290000			G
	Boron	ug/L	Tier 1	43.6		83.3				500	F	62000000		1900	
	Cadmium	ug/L	Tier 1	<0.25 U		1.5				5	A	190000			G,X
	Calcium	ug/L	Tier 1	24500		67000									
	Chromium	ug/L	Tier 1	<1.2 U		<0.25 U				100	A	460000		11	

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	P-605	PW-1	PW-2	PW-4	TDP-001	TDP-002	Residential Commercial Drinking Water Criteria	Residential Commercial Code	Groundwater Contact Criteria	Groundwater Contact Criteria Code	GSI Protection	GSI Protection Code
	Cobalt	ug/L	Tier 1	1.6		16.6				40		2400000		100	
	Copper	ug/L	Tier 1	<0.50 U		1.6				1000	E	7400000			G
	Cyanide	mg/L	Tier 1	<0.0060 U		<0.0060 U				0.2	A			0.0052	
	Iron	ug/L	Tier 1	5680		70.1				300	E	58000000			NA
	Lead	ug/L	Tier 1	<0.25 U		<0.050 U				4	L		ID		G,X
	Lithium	ug/L	Tier 1	2.1		7.8				170		5400000		96	
	Magnesium	ug/L	Tier 1	13200		35500				400000		1000000000	D		NA
	Manganese	ug/L	Tier 1	3080		490				50	E	9100000			G,X
	Mercury - low level	ng/L	Tier 1	0.555		1.02				2000	A	56000	S	1.3	
	Molybdenum	ug/L	Tier 1	5.3		0.26				73		970000		800	X
	Nickel	ug/L	Tier 1	0.48 J		71				100	A	74000000			G
	Potassium	ug/L	Tier 1	4700		3880									
	Selenium	ug/L	Tier 1	<1.2 U		<0.25 U				50	A	970000		5	
	Silver	ug/L	Tier 1	<0.50 U		<0.10 U				34		1500000		0.2	M
	Sodium	ug/L	Tier 1	1490		3550				120000		1000000000	D		NA
	Thallium	ug/L	Tier 1	<0.25 U		<0.050 U				2	A	13000		3.7	X
	Total Hardness	ug/L	Tier 1	115000		314000									
	Vanadium	ug/L	Tier 1	0.5		0.16				4.5		970000		12	
	Zinc	ug/L	Tier 1	<12.5 U		37.7				2400		110000000			G
	Inorganics														
	Bicarbonate Alkalinity	mg/L	Tier 1	123		134									
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U		<3.2 U									
	Chloride	mg/L	Tier 1	2.7 J		3.9 J				250	E		ID		FF
	Fluoride	mg/L	Tier 1	0.46 J		0.34 J									
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U		<0.50 U				10	N		ID		CC
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U		0.48				10	A,N	310000			NA
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U		<0.036 U				1	A,N		ID		NA
	Sulfate	mg/L	Tier 1	5.0		177				250	E		ID		NA
	Sulfide	mg/L	Tier 1	<2.3 U		<2.3 U									
	Total Alkalinity	mg/L	Tier 1	123		134									
	VOC														
	1,1,1-Trichloroethane	ug/L	Tier 1							200	A	1300000	S	200	
	1,1,2,2-Tetrachloroethane	ug/L	Tier 1							8.5		4700		78	X
	1,1,2-Trichloroethane	ug/L	Tier 1							5	A	21000		330	X
	1,1-Dichloroethane	ug/L	Tier 1							880		2400000		740	
	1,1-Dichloroethene	ug/L	Tier 1							7	A	11000		65	X
	1,2-Dichloroethane	ug/L	Tier 1							5	A	19000		360	X
	1,2-Dichloroethene, Total	ug/l	Tier 1												
	1,2-Dichloropropane	ug/L	Tier 1							5	A	16000		290	X
	2-Hexanone	ug/L	Tier 1							1000		5200000			NA
	4-Methyl-2-pentanone	ug/L	Tier 1							1800		13000000			ID
	Acetone	ug/L	Tier 1							730		31000000		1700	
	Benzene	ug/L	Tier 1							5	A	11000		200	X
	Bromodichloromethane	ug/L	Tier 1							80	A,W	14000			ID
	Bromoform	ug/L	Tier 1							80	A,W	140000			ID
	Bromomethane	ug/L	Tier 1							10		70000		35	
	Carbon Disulfide	ug/L	Tier 1							800		1200000	S		ID
	Carbon Tetrachloride	ug/L	Tier 1							5	A	4600		45	X
	Chlorobenzene	ug/L	Tier 1							100	A	86000		47	
	Chlorodibromomethane	ug/L	Tier 1							80	A,W	18000			ID
	Chloroethane	ug/L	Tier 1							430		440000			ID
	Chloroform	ug/L	Tier 1							80	A,W	150000		170	X
	Chloromethane	ug/L	Tier 1							260		490000			ID
	cis-1,3-Dichloropropene	ug/L	Tier 1							8.5					NA
	Ethylbenzene	ug/l	Tier 1							74	E			18	
	Methel ethyl Ketone	ug/L	Tier 1							13000		240000000	S	2200	
	Methylene Chloride	ug/L	Tier 1							5	A	220000		940	X
	Styrene	ug/L	Tier 1							100	A	9700		80	
	Tetrachloroethene	ug/L	Tier 1							5	A	12000		45	X
	Toluene	ug/L	Tier 1							790	E	530000	S	140	
	trans-1,3-Dichloropropene	ug/L	Tier 1							8.5					NA
	Trichloroethene	ug/L	Tier 1							5	A	22000		200	X
	Vinyl Chloride	ug/L	Tier 1							2	A	1000		15	
	Xylenes	ug/l	Tier 1							280	E	190000	S	35	
	VOC-PAH														
	Naphthalene	ug/L	Tier 1							520		31000	S	13	
10/13/2008	**Field Measurement**														
	Conductivity	mmhos	Tier 1	226		576									
	Depth to Water	ft	Tier 1	7.36	12.28	37.33	11.78	Dry	3.82						
	Dissolved Oxygen	mg/L	Tier 1	0.005		1.71									
	GW Elevation	ft msl	Tier 1	1589.24	1577.15	1552.26	1580.25	Dry	1606.98						
	ORP	mV	Tier 1	-125.1		104									
	pH	S.U.	Tier 1	7.17		6.34									
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	331		849									
	Temperature	Celcius	Tier 1	8.47		8.94									
	Turbidity	NTU	Tier 1	<1		27.9									
	Metal														
	Aluminum	ug/L	Tier 1	15.4 J		2420				50	V	64000000			NA
	Antimony	ug/L	Tier 1	<0.071 U		0.21 J				6	A	68000		130	X
	Arsenic	ug/L	Tier 1	8.3		7.4				10	A	4300		150	X
	Barium	ug/L	Tier 1	27.6		45.7				2000	A	14000000			G,X

Table E-1
2008 Groundwater Database

EventDate	Parameter	Units	Data Level	P-605	PW-1	PW-2	PW-4	TDP-001	TDP-002	Residential Commercial Drinking Water Criteria	Residential Commercial Code	Groundwater Contact Criteria	Groundwater Contact Criteria Code	GSI Protection	GSI Protection Code
	Beryllium	ug/L	Tier 1	<0.41 U		<0.41 U				4	A	290000			G
	Boron	ug/L	Tier 1	48		87.2				500	F	62000000		1900	
	Cadmium	ug/L	Tier 1	<0.087 U		2.5				5	A	190000			G,X
	Calcium	ug/L	Tier 1	21600		73500									
	Chromium	ug/L	Tier 1	<0.30 U		4.2				100	A	460000		11	
	Cobalt	ug/L	Tier 1	1.9		32.4				40		2400000		100	
	Copper	ug/L	Tier 1	<0.50 U		16.7				1000	E	7400000			G
	Cyanide	mg/L	Tier 1	<0.0060 U		<0.0060 U				0.2	A			0.0052	
	Iron	ug/L	Tier 1	5520		5010				300	E	58000000			NA
	Lead	ug/L	Tier 1	<0.50 U		1.5				4	L		ID		G,X
	Lithium	ug/L	Tier 1	1.9		10.1				170		5400000		96	
	Magnesium	ug/L	Tier 1	11400		37500				400000		1000000000	D		NA
	Manganese	ug/L	Tier 1	3050		1470				50	E	9100000			G,X
	Mercury - low level	ng/L	Tier 1	0.369 J		3.02				2000	A	56000	S	1.3	
	Molybdenum	ug/L	Tier 1	5.1		1				73		970000		800	X
	Nickel	ug/L	Tier 1	0.42 J		132				100	A	74000000			G
	Potassium	ug/L	Tier 1	4550		4580									
	Selenium	ug/L	Tier 1	<0.25 U		0.64 J				50	A	970000		5	
	Silver	ug/L	Tier 1	<0.25 U		<0.25 U				34		1500000		0.2	M
	Sodium	ug/L	Tier 1	1220		5540				120000		1000000000	D		NA
	Thallium	ug/L	Tier 1	0.20 J		0.070 J				2	A	13000		3.7	X
	Total Hardness	ug/L	Tier 1	101000		338000									
	Vanadium	ug/L	Tier 1	<0.45 U		6.8				4.5		970000		12	
	Zinc	ug/L	Tier 1	4.2 J		61.2				2400		110000000			G
	Inorganics														
	Bicarbonate Alkalinity	mg/L	Tier 1	110		151									
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U		<3.2 U									
	Chloride	mg/L	Tier 1	2.6 J		4.0 J				250	E		ID		FF
	Fluoride	mg/L	Tier 1	0.43 J		0.30 J									
	Nitrogen, Ammonia	mg/L	Tier 1	1		<0.50 U				10	N		ID		CC
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U		1.2				10	A,N	310000			NA
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U		<0.036 U				1	A,N		ID		NA
	Sulfate	mg/L	Tier 1	5.4		172				250	E		ID		NA
	Sulfide	mg/L	Tier 1	<2.3 U		<2.3 U									
	Total Alkalinity	mg/L	Tier 1	110		151									
	VOC														
	Benzene	ug/L	Tier 1							5	A	11000		200	X
	Ethylbenzene	ug/l	Tier 1							74	E			18	
	Toluene	ug/L	Tier 1							790	E	530000	S	140	
	Xylenes, m + p	ug/L	Tier 1							280	E	190000	S	35	
	Xylenes, o	ug/l	Tier 1							280	E	190000	S	35	

NOTES:

C = Celcius
d = dry
Dup = duplicate
f = frozen
ft = feet
ft msl = feet above mean sea level
mV = millivolt
mg/l = milligram/liter
mmhos = millimhos
NA = not applicable
NM = not measured
NTU = Nephelometric turbidity units
ORP = oxidation reduction potential
PAH = polynuclear aromatic hydrocarbon
S.U. = standard unit
ug/L = micrograms/liter
umhos/cm @25 degrees C = micromhos per centimeter at 25 degrees Celcius

i = insufficient water for collection of field parameters

VOC = volatile organic compound

A = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

CC = Groundwater: The generic GSI criteria are based on the toxicity of unionized ammonia (NH_3); the criteria are 29 $og/_2$ and 53 ug/L for cold water and warm water surface water, respectively.

E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Nat Res & EPA Act, 1994 PA 451, as amended.

F = Criterion is based on adverse impacts to plant life and phytotdicity.

FF = The chloride GSI criterian shall be 125 mg/L when the discharge is too surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting waters.

G = GSI criterion depends on the pH or water hardness, or both, ot the receiving surface water. The final chronic value for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water.

GSI = Groundwater Surface Water Interface

L = Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(10) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specified rules.

J = Concentration detected equal to or greater than the method detection limit but less than the reporting limit.

M = Calculated criterian is below the analytical target detection limit, therefore, the criterian defaults to the target detection limit.

N = The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/

U = The analyte was not detected at or above the reporting limit.

V = Criterion is the aesthetic drinking water value as required by Section 20120(a)(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) of th

W = Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.

< = All the analyte was not detected at or above the reporting limit

Residential Commercial I drinking water criteria source = MDEQ Part 201 generic cleanup criteria and screening levels

Results were compared to the MDEQ res/com I DW criteria. Exceedances are highlighted.

X = The GSI criterian shown in the generic clean up criteria tables is not protective for surface water that is to be used as a drinking water source.

Appendix F

North Jackson

Surface Water Sampling Field Reports

February – March 2008

NORTH
JACKSON
COMPANY

1004 Harbor Hills Drive, Suite 102 • Marquette, Michigan • 906.225.6787

March 26, 2008

Mr. Stephen V. Donohue
2737 South Ridge Road
P.O. Box 19012
Green Bay, WI 54307

Re: Humboldt Mill Site February-March 2008 Surface Water Sampling & Flow Measurement Monitoring Event

Dear Mr. Donohue:

Attached is the draft Humboldt Mill Site February-March 2008 Surface Water Sampling & Flow Measurement Monitoring Report.

If you have any questions, please call.

Sincerely,

Kari Paulson

North Jackson Company
Surface Water Monitoring Report

Project Name: Humboldt Mill Site

Contact: North Jackson Company
1004 Harbor Hills Drive, Suite 102
Marquette, Michigan 49855
Phone (906) 225-6787

Summary of Monitoring Activities

Field Date(s): 2/13/08, 2/15/08, 2/18/08, 2/19/08, 2/21/08, 2/22/08, 3/5/08, 3/6/08

Activities: Collected surface water samples from EBR-001, MBR-001, WBR-001, WBR-002, WBR-003, MER-001, MER-002, MER-003, WLD-001, WLD-002, WLD-003, HMP-004, HMP-005, HMP-007, HMP-009, HTP-002, LKL-001 and LKL-002.

3 monitoring locations were unable to be sampled because they were frozen (WLD-001SE, HMP-006 and HTP-001) and 1 because it was dry (WLD-001NW).

Measured flow at EBR-001, MBR-001, WBR-001, WBR-002, WBR-003, MER-001, MER-002, MER-003, WLD-001NW and WLD-001SE.

Collected flow data for Weir 1 & Weir 2.

Unable to measure staff gauges at HMP locations due to ice.

Collected masked duplicate and field blank samples.

Field Report Attachments

Field Analytical Data Summary	yes
Quality Control Summary	yes
Flow Measurement	yes
Water Sampling Log	yes
Chain of Custody Numbers	21808, 21908, 20080305, 20080306

Laboratory Analysis

Pace - Metals, anions, cations, general chemistry

Sampler Name(s): Andy Maracini (AJM), Kamran Syed (KHS), Chris Cantway (CEC), Peter Sabee (PJS)

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)
EBR-001	2/19/08	0.0	108	6.7	6.2	103
MBR-001	3/6/08	0.0	148	6.8	10.8	93
WBR-001	2/19/08	0.0	112	5.6	5.0	234
WBR-002	2/19/08	1.3	272	6.5	4.1	-22
WBR-003	2/19/08	0.0	224	6.4	3.2	53
MER-001	2/18/08	0.0	81	6.8	9.3	102
MER-002	2/19/08	0.0	104	6.7	9.0	64
MER-003	2/18/08	0.0	120	6.9	8.8	64
WLD-001NW	No sample	d	d	d	d	d
WLD-001SE	No sample	f	f	f	f	f
WLD-001	2/19/08	2.9	641	6.6	1	-55
WLD-002	3/5/08	1.9	141	6.3	<1.0	-107
WLD-003	3/5/08	3.7	122	6.9	<1.0	-95
HMP-004	2/18/08	0.0	559	7.2	5.6	106
HMP-005	2/18/08	0.6	385	6.7	0.8	32
HMP-006	No sample	f	f	f	f	f
HMP-007	2/19/08	0.0	283	6.7	0.2	64
HMP-009	2/18/08	1.5	518	7.6	8.6	14
HTP-001	No sample	f	f	f	f	f
HTP-002	3/5/08	3.2	157	6.9	<1.0	-212
LKL-001	3/5/08	4.0	75	7.0	6.8	104
LKL-002	3/5/08	4.2	76	6.9	6.0	108

d Dry
f Frozen

North Jackson Company
Flow Measurement Summary

Project Name: Humboldt Mill

Location	Measurement Date	Flow (cfs)
EBR-001	2/21/08	0.0
MBR-001	3/6/08	2.3
WBR-001	2/21/08	0.05
WBR-002	2/21/08	0.2
WBR-003	2/21/08	0.4
MER-001	2/22/08	19
MER-002	2/22/08	19
MER-003	2/22/08	17
WLD-001NW	2/13/08	0.0
WLD-001SE	2/13/08	0.0

Note: Ice-affected streamflow measurements may be considerably less accurate than ice-free measurements.

North Jackson Company
Quality Control Sampling Summary

Project Name: Humboldt Mill Site

Sample ID	Sampling Date	Description
DUP-001	2/18/08	Masked duplicate (MER-001)
DUP-002	2/19/08	Masked duplicate (WBR-003)
DUP-005	3/5/08	Masked duplicate (HTP-002)
DUP-006	3/6/08	Masked duplicate (MBR-001)
FBK-001	2/18/08	Field blank
FBK-002	2/19/08	Field blank
FBK-005	3/5/08	Field blank
FBK-006	3/6/08	Field blank

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~10°s F
Location: EBR-001

Date: 2/19/08
Sampler(s): CEC/AJM
Sampling time: 1100

Odor: Slight hydrogen sulfide
Appearance: Clear, slight color

Temperature (°C): 0.0
Spec. Cond. (µmhos/cm @ 25°C): 108
Conductivity (µmhos): 57
pH (SU): 6.7
D.O. (ppm): 6.2
ORP (mV): 103

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: No flow on 2/21/08 (0 cfs recorded).

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~10°s F
Location: MBR-001

Date: 3/6/08
Sampler(s): AJM/PJS
Sampling time: 1434

Odor: None
Appearance: Clear/yellow with organics

Temperature (°C): 0.0
Spec. Cond. (µmhos/cm @ 25°C): 148
Conductivity (µmhos): 77
pH (SU): 6.8
D.O. (ppm): 10.8
ORP (mV): 93

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Collected masked duplicate (DUP-005).

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement AJM 3/6/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Ice Thickness (ft)	Effective Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
1.5	0.3	0.0	0.0	0.0	0.00	0.0	0.00
2.0	0.7	0.8	0.5	0.3	0.03	0.2	0.01
2.8	0.8	0.8	0.3	0.5	0.29	0.4	0.11
3.6	0.7	0.8	0.5	0.3	0.14	0.2	0.03
4.1	0.5	0.9	0.5	0.4	0.23	0.2	0.04
4.6	0.4	0.9	0.2	0.7	0.22	0.3	0.06
4.9	0.3	0.9	0.2	0.7	0.21	0.2	0.04
5.2	0.3	0.9	0.2	0.7	0.26	0.2	0.05
5.5	0.4	1.0	0.2	0.8	0.38	0.3	0.11
6.0	0.5	0.9	0.2	0.7	0.42	0.4	0.14
6.5	0.5	0.9	0.2	0.7	0.56	0.4	0.18
7.0	0.5	0.9	0.0	0.9	0.79	0.5	0.36
7.5	0.5	0.8	0.0	0.8	0.69	0.4	0.28
8.0	0.4	0.8	0.0	0.8	0.86	0.3	0.28
8.3	0.3	0.8	0.0	0.8	0.89	0.2	0.21
8.6	0.3	0.8	0.0	0.8	0.69	0.2	0.17
8.9	0.4	0.8	0.0	0.8	0.52	0.3	0.17
9.4	0.5	0.8	0.0	0.8	0.25	0.4	0.10
9.9	0.5	0.8	0.0	0.8	0.04	0.4	0.02
10.4	0.6	0.8	0.2	0.6	-0.04	0.4	-0.01
11.2	0.8	0.6	0.2	0.4	-0.05	0.3	-0.01
12.0	0.8	0.4	0.2	0.2	-0.02	0.2	0.00
12.8	0.8	0.3	0.2	0.1	-0.01	0.1	0.00
13.5	0.4	0.0	0.0	0.0	0.00	0.0	0.00

Total flow: 2.3

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~10°s F
Location: WBR-001

Date: 2/19/08
Sampler(s): CEC/AJM
Sampling time: 1010

Odor: Slight hydrogen sulfide
Appearance: Yellow/brown

Temperature (°C): 0.0
Spec. Cond. (μmhos/cm @ 25°C): 112
Conductivity (μmhos): 59
pH (SU): 5.6
D.O. (ppm): 5
ORP (mV): 234

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=1.48'.
100% ice cover. Cleared trench prior to measurement.

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement CEC/AJM 2/21/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Ice Thickness (ft)	Effective Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.3	0.2	0.0	0.0	0.0	0.00	0.00	0.000
0.6	0.3	0.4	0.4	0.0	-0.07	0.00	0.000
0.9	0.3	0.4	0.2	0.2	-0.07	0.06	-0.004
1.2	0.3	0.6	0.2	0.4	-0.01	0.12	-0.001
1.5	0.3	0.6	0.3	0.3	0.01	0.09	0.001
1.8	0.3	0.5	0.2	0.3	0.08	0.09	0.007
2.1	0.3	0.7	0.2	0.5	0.16	0.15	0.022
2.4	0.3	0.8	0.3	0.5	0.03	0.15	0.004
2.7	0.3	0.7	0.3	0.4	0.01	0.12	0.001
3.0	0.3	0.6	0.2	0.4	0.16	0.12	0.018
3.3	0.3	0.6	0.3	0.3	0.09	0.09	0.007
3.6	0.3	0.6	0.3	0.3	-0.01	0.09	-0.001
3.9	0.3	0.6	0.3	0.3	-0.03	0.09	-0.002
4.2	0.3	0.5	0.3	0.2	-0.04	0.06	-0.002
4.5	0.3	0.5	0.4	0.1	-0.04	0.03	-0.001
4.8	0.2	0.5	0.5	0.0	-0.04	0.00	0.000

Total flow: 0.05

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~10°s F
Location: WBR-002

Date: 2/19/08
Sampler(s): CEC/AJM
Sampling time: 1400

Odor: Strong hydrogen sulfide
Appearance: Clear, light brown

Temperature (°C): 1.3
Spec. Cond. (µmhos/cm @ 25°C): 272
Conductivity (µmhos): 149
pH (SU): 6.5
D.O. (ppm): 4.1
ORP (mV): -22

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=2.89'.
Open water, removed snow/ice on banks prior to measurement.

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement AJM/CEC 2/21/08

Distance from Initial Point (ft)	Width (ft)	Stream Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.20	0.0	0.00	0.0	0.00
0.4	0.40	0.4	-0.03	0.2	0.00
0.8	0.35	0.4	-0.02	0.1	0.00
1.1	0.30	0.4	0.01	0.1	0.00
1.4	0.30	0.4	0.11	0.1	0.01
1.7	0.30	0.4	0.16	0.1	0.02
2.0	0.30	0.5	0.23	0.2	0.03
2.3	0.30	0.4	0.19	0.1	0.02
2.6	0.30	0.4	0.15	0.1	0.02
2.9	0.30	0.5	0.27	0.2	0.04
3.2	0.30	0.4	0.24	0.1	0.03
3.5	0.30	0.4	0.39	0.1	0.05
3.8	0.30	0.4	0.18	0.1	0.02
4.1	0.35	0.4	0.04	0.1	0.01
4.5	0.40	0.3	-0.01	0.1	0.00
4.9	0.40	0.3	0.01	0.1	0.00
5.3	0.40	0.3	-0.02	0.1	0.00
5.7	0.40	0.2	-0.07	0.1	-0.01
6.1	0.20	0.0	0.00	0.0	0.00

Total Flow: 0.2

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~10°s F
Location: WBR-003

Date: 2/19/08
Sampler(s): CEC/AJM
Sampling time: 1200

Odor: Slight hydrogen sulfide
Appearance: Clear, yellowish

Temperature (°C): 0.0
Spec. Cond. (µmhos/cm @ 25°C): 224
Conductivity (µmhos): 117
pH (SU): 6.4
D.O. (ppm): 3.2
ORP (mV): 53

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-002) collected here.
RP=1.80'. 100% ice cover. Removed trench prior to measurement.

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement CEC/AJM 2/21/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Ice Thickness (ft)	Effective Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.3	0.2	0.0	0.0	0.0	0.00	0.0	0.00
0.6	0.3	0.7	0.1	0.6	0.04	0.2	0.01
0.9	0.3	0.8	0.2	0.6	0.07	0.2	0.01
1.2	0.3	0.6	0.2	0.4	0.04	0.1	0.00
1.5	0.3	0.7	0.2	0.5	0.09	0.2	0.01
1.8	0.3	0.8	0.2	0.6	0.19	0.2	0.03
2.1	0.3	0.8	0.2	0.6	0.33	0.2	0.05
2.4	0.3	0.9	0.2	0.7	0.33	0.2	0.06
2.7	0.3	0.9	0.2	0.7	0.30	0.2	0.06
3.0	0.3	0.9	0.3	0.6	0.24	0.2	0.04
3.3	0.3	1.0	0.2	0.8	0.28	0.2	0.06
3.6	0.3	1.0	0.2	0.8	0.28	0.2	0.06
3.9	0.3	0.9	0.2	0.7	0.14	0.2	0.03
4.2	0.3	0.9	0.3	0.6	0.11	0.2	0.02
4.5	0.3	0.9	0.3	0.6	0.08	0.2	0.01
4.8	0.3	1.0	0.3	0.7	-0.08	0.2	-0.02
5.1	0.3	1.0	0.3	0.7	-0.03	0.2	-0.01
5.4	0.3	1.0	0.3	0.7	-0.03	0.2	-0.01
5.7	0.3	1.0	0.3	0.7	0.01	0.2	0.00
6.0	0.3	1.0	0.3	0.7	-0.02	0.2	0.00
6.3	0.3	1.1	0.3	0.8	-0.04	0.2	-0.01
6.6	0.3	1.1	0.3	0.8	-0.02	0.2	0.00
6.9	0.3	0.9	0.3	0.6	-0.03	0.2	0.00
7.2	0.3	0.9	0.3	0.6	0.00	0.2	0.00
7.5	0.2	0.0	0.0	0.0	0.00	0.0	0.00

Total flow: 0.4

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, light snow, ~10°s F
Location: MER-001

Date: 2/18/08
Sampler(s): CEC/PJS
Sampling time: 1515

Odor: None
Appearance: Yellow

Temperature (°C): 0.0
Spec. Cond. (µmhos/cm @ 25°C): 81
Conductivity (µmhos): 42
pH (SU): 6.8
D.O. (ppm): 9.3
ORP (mV): 102

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
3	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
3	125 ml amber glass	H2SO4	TOC
3	125 ml amber glass	H2SO4	DOC (Filtered)
3	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-001) collected here.
RP=5.09'. Stream ice covered. Drilled holes where sufficiently thick.

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement AJM/KHS 2/22/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Ice Thickness (ft)	Effective Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
3.0	0.7	0.0	0.0	0.0	0.00	0.0	0.00
4.3	1.3	0.5	0.0	0.5	0.52	0.7	0.34
5.6	1.3	0.8	0.0	0.8	0.61	1.0	0.63
6.9	1.3	0.9	0.0	0.9	1.24	1.2	1.45
8.2	1.3	1.1	0.0	1.1	1.40	1.4	2.00
9.5	1.1	1.1	0.0	1.1	1.35	1.2	1.56
10.3	1.0	1.2	0.4	0.8	1.44	0.8	1.06
11.5	1.3	1.2	0.5	0.7	1.59	0.9	1.33
12.9	1.4	1.2	0.4	0.8	1.52	1.1	1.51
14.2	1.3	1.2	0.6	0.6	1.52	0.8	1.09
15.5	1.2	1.2	0.6	0.6	1.33	0.7	0.88
16.6	1.3	1.1	0.6	0.5	1.24	0.7	0.74
18.1	1.3	1.1	0.6	0.5	1.11	0.7	0.66
19.2	1.3	1.1	0.5	0.6	1.07	0.8	0.77
20.7	1.4	1.0	0.5	0.5	0.80	0.7	0.52
22.0	1.4	0.9	0.5	0.4	0.66	0.6	0.34
23.5	1.3	0.9	0.6	0.3	0.58	0.4	0.20
24.5	1.3	0.9	0.7	0.2	0.94	0.3	0.22
26.0	1.4	0.9	0.0	0.9	1.42	1.3	1.79
27.3	1.3	0.8	0.0	0.8	1.18	1.0	1.23
28.6	1.2	0.8	0.0	0.8	0.55	0.9	0.51
29.6	0.8	0.8	0.0	0.8	0.25	0.6	0.16
30.2	0.3	0.0	0.0	0.0	0.00	0.0	0.00

Total Flow: 19

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~10°s F
Location: MER-002

Date: 2/19/08
Sampler(s): CEC/AJM
Sampling time: 1545

Odor: None
Appearance: Clear, slight yellow

Temperature (°C): 0.0
Spec. Cond. (µmhos/cm @ 25°C): 104
Conductivity (µmhos): 54
pH (SU): 6.7
D.O. (ppm): 9.0
ORP (mV): 64

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Unable to measure RP due to ice (measured 10.21' from top of bridge). Stream 100% ice covered.
Drilled holes for measurement.

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement AJM/KHS 2/22/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Ice Thickness (ft)	Effective Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
4.0	0.8	0.0	0.0	0.0	0.00	0.0	0.00
5.5	1.3	1.0	0.0	1.0	0.39	1.3	0.49
6.5	1.3	1.4	0.0	1.4	0.39	1.8	0.68
8.0	1.6	1.4	0.7	0.7	0.40	1.1	0.41
9.7	1.7	1.4	0.9	0.5	0.33	0.8	0.25
11.3	1.5	1.4	0.6	0.8	0.46	1.2	0.49
12.6	1.4	1.4	0.4	1.0	0.67	1.4	0.83
14.0	1.5	1.4	0.5	0.9	0.72	1.3	0.86
15.5	1.5	1.5	0.5	1.0	0.65	1.5	0.90
17.0	1.4	1.6	0.5	1.1	0.76	1.5	1.08
18.3	1.5	1.6	0.5	1.1	0.78	1.7	1.18
20.0	1.6	1.5	0.5	1.0	0.69	1.6	1.02
21.5	1.5	1.6	0.5	1.1	0.77	1.7	1.17
23.0	1.5	1.6	0.5	1.1	0.81	1.7	1.23
24.5	1.5	1.6	0.4	1.2	0.85	1.8	1.41
26.0	1.5	1.5	0.4	1.1	0.88	1.7	1.34
27.5	1.5	1.3	0.4	0.9	0.92	1.4	1.14
29.0	1.3	1.3	0.0	1.3	0.88	1.6	1.43
30.0	1.0	1.3	0.0	1.3	0.67	1.3	0.87
31.0	1.0	1.3	0.0	1.3	0.59	1.3	0.77
32.0	1.3	1.2	0.0	1.2	0.41	1.5	0.62
33.5	1.5	1.1	0.0	1.1	0.19	1.7	0.31
35.0	1.0	0.9	0.0	0.9	0.29	0.9	0.26
35.5	0.3	0.0	0.0	0.0	0.00	0.0	0.00

Total Flow: 19

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Mostly cloudy, light snow, ~10°s F
Location: MER-003

Date: 2/18/08
Sampler(s): CEC/PJS
Sampling time: 1430

Odor: None
Appearance: Light yellow

Temperature (°C): 0.0
Spec. Cond. (µmhos/cm @ 25°C): 120
Conductivity (µmhos): 63
pH (SU): 6.9
D.O. (ppm): 8.8
ORP (mV): 64

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=3.31'. Stream partially ice covered. Drilled holes where sufficiently thick.

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement AJM/KHS 2/22/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Ice Thickness (ft)	Effective Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
3.0	1.0	0.0	0.0	0.0	0.00	0.0	0.00
5.0	2.0	0.4	0.0	0.4	0.03	0.8	0.02
7.0	1.8	0.8	0.0	0.8	0.33	1.4	0.46
8.5	1.5	1.0	0.0	1.0	0.23	1.5	0.35
10.0	1.5	1.0	0.0	1.0	0.43	1.5	0.65
11.5	1.3	1.1	0.0	1.1	0.54	1.4	0.74
12.5	1.3	1.1	0.0	1.1	0.27	1.4	0.37
14.0	1.8	1.1	0.9	0.2	0.15	0.4	0.05
16.0	2.0	1.1	0.9	0.2	0.19	0.4	0.07
18.0	1.5	1.1	0.0	1.1	0.54	1.7	0.89
19.0	1.0	1.1	0.0	1.1	0.41	1.1	0.45
20.0	1.0	1.1	0.0	1.1	0.79	1.1	0.87
21.0	1.0	1.1	0.0	1.1	0.89	1.1	0.98
22.0	1.0	1.1	0.0	1.1	0.93	1.1	1.02
23.0	1.0	1.1	0.0	1.1	0.82	1.1	0.90
24.0	1.5	1.1	0.4	0.7	1.00	1.1	0.97
26.0	2.0	1.0	0.4	0.6	1.08	1.2	1.19
28.0	2.0	1.0	0.3	0.7	0.97	1.4	1.25
30.0	2.0	1.0	0.3	0.7	1.05	1.4	1.35
32.0	2.0	1.0	0.3	0.7	1.07	1.4	1.38
34.0	2.0	0.9	0.3	0.6	1.37	1.2	1.51
36.0	2.0	0.8	0.3	0.5	1.31	1.0	1.21
38.0	1.5	0.7	0.4	0.3	0.35	0.5	0.14
39.0	1.0	0.4	0.0	0.4	0.66	0.4	0.26
40.0	1.0	0.3	0.0	0.3	0.70	0.3	0.21
41.0	0.5	0.0	0.0	0.0	0.00	0.0	0.00

Total Flow: 17

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~10°s F
Location: WLD-001NW

Date: No sample
Sampler(s): PJS/CEC
Sampling time: NA

Odor: NA
Appearance: NA

Temperature (°C): d
Spec. Cond. (µmhos/cm @ 25°C): d
Conductivity (µmhos): d
pH (SU): d
D.O. (ppm): d
ORP (mV): d

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Dry on 2/13/08 (0 cfs flow recorded and no sample collected).

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~10°s F
Location: WLD-001SE

Date: No sample
Sampler(s): PJS/CEC
Sampling time: NA

Odor: NA
Appearance: NA

Temperature (°C): f
Spec. Cond. (µmhos/cm @ 25°C): f
Conductivity (µmhos): f
pH (SU): f
D.O. (ppm): f
ORP (mV): f

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Almost frozen solid on 2/13/08 (0 cfs flow recorded and no sample collected).

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, light snow, ~10°s F
Location: WLD-001

Date: 2/19/08
Sampler(s): CEC/AJM
Sampling time: 1440

Odor: None
Appearance: Clear, very slight yellow

Temperature (°C): 2.9
Spec. Cond. (µmhos/cm @ 25°C): 641
Conductivity (µmhos): 370
pH (SU): 6.6
D.O. (ppm): 1.0
ORP (mV): -55

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Snow, overcast ~20°s F
Location: WLD-002

Date: 3/5/08
Sampler(s): PJS/AJM
Sampling time: 1300

Odor: Hydrogen sulfide
Appearance: Tannin

Temperature (°C): 1.9
Spec. Cond. (µmhos/cm @ 25°C): 141
Conductivity (µmhos): 79
pH (SU): 6.3
D.O. (ppm): <1.0
ORP (mV): -107

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidit
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 4.5'. Ice thickness = 1.5'. Sample depth = 2.5'.

Depth (ft)	Temp (C)	Sp Cond (µmhos/cm @ 25°C)	ORP (mV)	pH (SU)	DO (ppm)
1.5	0.6	135	-115	6.3	<1.0
2.5	1.9	141	-107	6.3	<1.0
4.0	3.2	164	-53	6.4	<1.0

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Light snow, overcast, breezy, ~20°s F
Location: WLD-003

Date: 3/5/08
Sampler(s): PJS/AJM
Sampling time: 1345

Odor: Slight hydrogen sulfide
Appearance: Slight tannin

Temperature (°C): 3.7
Spec. Cond. (µmhos/cm @ 25°C): 122
Conductivity (µmhos): 72
pH (SU): 6.9
D.O. (ppm): <1.0
ORP (mV): -95

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 4.7'. Ice thickness = 1.6'. Sample depth 2.6'.

Depth (ft)	Temp (C)	Sp Cond (µmhos/cm @ 25°C)	ORP (mV)	pH (SU)	DO (ppm)
1.6	0.9	81	-20	6.4	<1.0
2.6	3.7	122	-95	6.9	<1.0
4.0	5.1	225	-130	7.1	<1.0

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, light snow, ~10°s F
Location: HMP-004

Date: 2/18/08
Sampler(s): CEC/PJS
Sampling time: 1330

Odor: None
Appearance: Clear

Temperature (°C): 0.0
Spec. Cond. (µmhos/cm @ 25°C): 559
Conductivity (µmhos): 292
pH (SU): 7.2
D.O. (ppm): 5.6
ORP (mV): 106

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Unable to read staff gauge due to ice.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, light snow, ~10°s F
Location: HMP-005

Date: 2/18/08
Sampler(s): CEC/PJS
Sampling time: 1130

Odor: None
Appearance: Slight yellow

Temperature (°C): 0.6
Spec. Cond. (µmhos/cm @ 25°C): 385
Conductivity (µmhos): 205
pH (SU): 6.7
D.O. (ppm): 0.8
ORP (mV): 32

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Unable to read staff gauge due to ice.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~10°s F
Location: HMP-006

Date: No sample
Sampler(s): CEC/PJS
Sampling time: NA

Odor: NA
Appearance: NA

Temperature (°C): f
Spec. Cond. (µmhos/cm @ 25°C): f
Conductivity (µmhos): f
pH (SU): f
D.O. (ppm): f
ORP (mV): f

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Frozen on 2/13/08.
Unable to read staff gauge due to ice.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, light snow, ~10°s F
Location: HMP-007

Date: 2/19/08
Sampler(s): CEC/AJM
Sampling time: 1330

Odor: V. strong hydrogen sulfide
Appearance: Cloudy, yellowish tint

Temperature (°C): 0.0
Spec. Cond. (µmhos/cm @ 25°C): 283
Conductivity (µmhos): 148
pH (SU): 6.7
D.O. (ppm): 0.2
ORP (mV): 64

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Unable to read staff gauge due to ice.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, light snow, ~10°s F
Location: HMP-009

Date: 2/18/08
Sampler(s): CEC/PJS
Sampling time: 1215

Odor: Possibly slight sulfur
Appearance: Clear

Temperature (°C): 1.5
Spec. Cond. (µmhos/cm @ 25°C): 518
Conductivity (µmhos): 286
pH (SU): 7.6
D.O. (ppm): 8.6
ORP (mV): 14

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Unable to read staff gauge due to ice.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Light snow, overcast ~20°s F
Location: HTP-001

Date: No sample
Sampler(s): PJS/AJM
Sampling time: NA

Odor: NA
Appearance: NA

Temperature (°C): f
Spec. Cond. (µmhos/cm @ 25°C): f
Conductivity (µmhos): f
pH (SU): f
D.O. (ppm): f
ORP (mV): f

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: 0.8' ice over damp, saturated sediment on 3/5/08. No sample possible.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Light snow, overcast ~20°s F
Location: HTP-002

Date: 3/5/08
Sampler(s): PJS/AJM
Sampling time: 1030

Odor: Hydrogen sulfide
Appearance: Slight yellow cast

Temperature (°C): 3.2
Spec. Cond. (µmhos/cm @ 25°C): 157
Conductivity (µmhos): 92
pH (SU): 6.9
D.O. (ppm): <1.0
ORP (mV): -212

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
4	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
4	125 ml amber glass	H2SO4	TOC
4	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-005) collected here. Lab MS/MSD collected here.
Total water depth = 6.0'. Ice thickness = 1.4'. Sample depth = 2.3'.

Depth (ft)	Temp (C)	Sp Cond (µmhos/cm @ 25°C)	ORP (mV)	pH (SU)	DO (ppm)
1	0.7	151	-201	6.8	<1.0
3	3.2	162	-151	6.8	<1.0
5	5.0	262	-114	6.6	<1.0

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Overcast, flurries, breezy, ~20°s F
Location: LKL-001

Date: 3/5/08
Sampler(s): PJS/AJM
Sampling time: 1500

Odor: None
Appearance: Clear

Temperature (°C): 4.0
Spec. Cond. (µmhos/cm @ 25°C): 75
Conductivity (µmhos): 45
pH (SU): 7.0
D.O. (ppm): 6.8
ORP (mV): 104

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = ~23'. Ice thickness = 1.5'. Sample depth = 7.5'.

Depth (ft)	Temp (C)	Sp Cond (µmhos/cm @ 25°C)	ORP (mV)	pH (SU)	DO (ppm)
1.5	1.0	80	111	7.3	11.0
4.5	3.5	76	111	7.0	7.2
7.5	4.0	75	104	7.0	6.8
10.5	4.1	76	100	7.0	6.6
13.5	4.3	78	97	6.9	5.8
16.5	4.5	82	91	6.9	4.2
19.5	4.7	88	73	6.9	2.8
22.0	5.1	98	51	6.8	1.2

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Overcast, flurries, breezy, ~20°s F
Location: LKL-002

Date: 3/5/08
Sampler(s): PJS/AJM
Sampling time: 1615

Odor: None
Appearance: Very slight yellow

Temperature (°C): 4.2
Spec. Cond. (µmhos/cm @ 25°C): 76
Conductivity (µmhos): 46
pH (SU): 6.9
D.O. (ppm): 6.0
ORP (mV): 108

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total depth = 27'. Ice = 1.7'. Sample depth = 8'.

Depth (ft)	Temp (C)	Sp Cond (µmhos/cm @ 25°C)	ORP (mV)	pH (SU)	DO (ppm)
1.5	1.2	79	125	7.3	10.6
4.5	3.3	76	127	7.2	9.3
8.0	4.2	76	108	6.9	6.0
13.5	4.4	78	102	6.8	5.0
19.5	4.6	83	94	6.7	2.6
22.5	4.8	90	80	6.6	<1.0
25.5	5.1	105	52	6.7	<1.0

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Clear, breezy, ~0-5°s F
Location: Weir 1

Date: 2/15/07
Sampler(s): PJS/CEC
Sampling time: No sample

Odor: NA
Appearance: NA

Temperature (°C): NA
Spec. Cond. (μmhos/cm @ 25°C): NA
Conductivity (μmhos): NA
pH (SU): NA
D.O. (ppm): NA
ORP (mV): NA

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: No sample required here. Weir diameter = 2'. Water depth = 1.4' (0.27' ice).
Max flow = 0.20 ft/s at 0.65' below water surface.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Mostly clear, ~0-5°s F
Location: Weir 2

Date: 2/15/07
Sampler(s): PJS/CEC
Sampling time: No sample

Odor: NA
Appearance: NA

Temperature (°C): NA
Spec. Cond. (µmhos/cm @ 25°C): NA
Conductivity (µmhos): NA
pH (SU): NA
D.O. (ppm): NA
ORP (mV): NA

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: No sample required here. Weir is elliptical: 1.3' x 3.0' (+/- 0.2'). Water depth = 1.0'.
No flowing water.

NORTH
JACKSON
COMPANY

1004 Harbor Hills Drive, Suite 102 • Marquette, Michigan • 906.225.6787

March 25, 2008

Mr. Stephen V. Donohue
2737 South Ridge Road
P.O. Box 19012
Green Bay, WI 54307

Confidential and Privileged
Attorney Client Work Product and/or
Attorney-Client Communication
Prepared in Anticipation of Litigation

Re: Humboldt Mill Site February-March 2008 Pit Profiling & Sampling Monitoring Event

Dear Mr. Donohue:

Attached is the draft Humboldt Mill Site February-March 2008 Pit Profiling & Sampling Monitoring Report.

If you have any questions, please call.

Sincerely,

Kari Paulson

North Jackson Company
Field Sampling Report

Project Name: Humboldt Mill Site

Contact: North Jackson Company
1004 Harbor Hills Drive, Suite 102
Marquette, Michigan 49855
Phone (906) 225-6787

Summary of Monitoring Activities

Monitoring Date(s): 2/28/08, 3/3/08, 3/4/08, 3/5/08, 3/10/08, 3/14/08 and 3/17/08

Activities: Collected surface water samples from the pit at HPL-003 & HPL-004 (at depths of 3', 15', 60', 120' & 175').

Completed profiles at 3-ft intervals at HPL-001 through HPL-007.

Collected masked duplicate and field blank samples.

Field Report Attachments

Field Analytical Data Summary	Yes
Quality Control Summary	Yes
Flow Measurement	No
Water Sampling Log	Yes
Chain of Custody Numbers	20080228, 20080303

Laboratory Analysis

Pace - Metals, anions, cations, general chemistry

Sampler Name(s): Andy Maracini (AJM) and Chris Cantway (CEC)

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)	Ferrous Iron (mg/L)
HPL-003 3'	2/28/08	2.0	544	7.7	10.5	283	NM
HPL-003 15'	2/28/08	3.1	539	7.7	10.3	293	NM
HPL-003 60'	2/28/08	3.3	535	7.5	9.4	309	NM
HPL-003 120'	2/28/08	4.2	682	7.3	<0.1	300	<0.02
HPL-003 175'	2/28/08	4.2	739	7.5	<0.1	254	0.2
HPL-004 3'	3/3/08	1.6	534	7.7	11.9	182	NM
HPL-004 15'	3/3/08	3.0	535	7.7	11.3	184	NM
HPL-004 60'	3/3/08	3.3	536	7.5	10.0	198	NM
HPL-004 120'	3/3/08	4.3	675	7.3	<0.1	193	<0.02
HPL-004 175'	3/3/08	4.2	746	7.5	<0.1	161	<0.02

NM Not measured

North Jackson Company
Quality Control Sampling Summary

Project Name: Humboldt Mill Site

Sample ID	Sampling Date	Description
DUP-003	2/28/08	Masked duplicate (HPL-003 60')
DUP-004	3/3/08	Masked duplicate (HPL-004 175')
FBK-003	2/28/08	Field blank
FBK-004	3/3/08	Field blank

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, breezy, ~10°s F
Sample ID: HPL-003 3'

Date: 2/28/08
Sampler(s): AJM/CEC
Sampling time: 1310

Odor: None
Appearance: Clear

Temperature (°C): 2.0
Spec. Cond. (µmhos/cm @ 25°C): 544
Conductivity (µmhos): 305
pH (SU): 7.7
D.O. (ppm): 10.5
ORP (mV): 283
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	500 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Ice thickness is 1.3'.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, breezy, ~10°s F
Sample ID: HPL-003 15'

Date: 2/28/08
Sampler(s): AJM/CEC
Sampling time: 1330

Odor: None
Appearance: Clear

Temperature (°C): 3.1
Spec. Cond. (μmhos/cm @ 25°C): 539
Conductivity (μmhos): 168
pH (SU): 7.7
D.O. (ppm): 10.3
ORP (mV): 293
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	500 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, breezy, ~10°s F
Sample ID: HPL-003 60'

Date: 2/28/08
Sampler(s): AJM/CEC
Sampling time: 1350

Odor: None
Appearance: Clear

Temperature (°C): 3.3
Spec. Cond. (μmhos/cm @ 25°C): 535
Conductivity (μmhos): 314
pH (SU): 7.5
D.O. (ppm): 9.4
ORP (mV): 309
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-003) collected here.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, breezy, ~10°s F
Sample ID: HPL-003 120'

Date: 2/28/08
Sampler(s): AJM/CEC
Sampling time: 1430

Odor: None
Appearance: Clear

Temperature (°C): 4.2
Spec. Cond. (µmhos/cm @ 25°C): 682
Conductivity (µmhos): 411
pH (SU): 7.3
D.O. (ppm): <0.1
ORP (mV): 300
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, breezy, ~10°s F
Sample ID: HPL-003 175'

Date: 2/28/08
Sampler(s): AJM/CEC
Sampling time: 1505

Odor: None
Appearance: Clear

Temperature (°C): 4.2
Spec. Cond. (µmhos/cm @ 25°C): 739
Conductivity (µmhos): 445
pH (SU): 7.5
D.O. (ppm): <0.1
ORP (mV): 254
Ferrous Iron (mg/L): 0.2

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~20°s F
Sample ID: HPL-004 3'

Date: 3/3/08
Sampler(s): CEC/AJM
Sampling time: 1645

Odor: None
Appearance: Clear

Temperature (°C): 1.6
Spec. Cond. (µmhos/cm @ 25°C): 534
Conductivity (µmhos): 312
pH (SU): 7.7
D.O. (ppm): 11.9
ORP (mV): 182
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Ice thickness is 1.35'.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~20°s F
Sample ID: HPL-004 15'

Date: 3/3/08
Sampler(s): CEC/AJM
Sampling time: 1635

Odor: None
Appearance: Clear

Temperature (°C): 3.0
Spec. Cond. (µmhos/cm @ 25°C): 535
Conductivity (µmhos): 309
pH (SU): 7.7
D.O. (ppm): 11.3
ORP (mV): 184
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~20°s F
Sample ID: HPL-004 60'

Date: 3/3/08
Sampler(s): CEC/AJM
Sampling time: 1625

Odor: None
Appearance: Clear

Temperature (°C): 3.3
Spec. Cond. (µmhos/cm @ 25°C): 536
Conductivity (µmhos): 315
pH (SU): 7.5
D.O. (ppm): 10.0
ORP (mV): 198
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Mostly sunny, ~10°s F
Sample ID: HPL-004 120'

Date: 3/3/08
Sampler(s): CEC/AJM
Sampling time: 1310

Odor: None
Appearance: Clear

Temperature (°C): 4.3
Spec. Cond. (µmhos/cm @ 25°C): 675
Conductivity (µmhos): 409
pH (SU): 7.3
D.O. (ppm): <0.1
ORP (mV): 193
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly sunny, windy, ~20°s F
Sample ID: HPL-004 175'

Date: 3/3/08
Sampler(s): CEC/AJM
Sampling time: 1530

Odor: None
Appearance: Clear

Temperature (°C): 4.2
Spec. Cond. (µmhos/cm @ 25°C): 746
Conductivity (µmhos): 448
pH (SU): 7.5
D.O. (ppm): <0.1
ORP (mV): 161
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-004) collected here.

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, breezy, ~20°s F
Location: HPL-001

Date: 3/17/08
Field Crew: CEC

Start time: 1407 **Finish time:** 1510
Remarks: DO profile was measured on 3/4 & 3/5/08. ORP was measured with new probe.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.8	0.3	547	262	8.9
3	7.8	1.2	543	266	9.9
6	7.8	2.0	543	268	10.2
9	7.8	2.6	540	270	10.3
12	7.8	2.8	540	272	10.2
15	7.8	3.0	540	274	10.2
18	7.8	3.1	539	275	10.2
21	7.8	3.2	538	277	10.1
24	7.8	3.3	538	281	10.1
27	7.8	3.3	538	283	10.1
30	7.8	3.3	537	286	10.0
33	7.7	3.3	538	287	9.5
36	7.7	3.3	537	290	9.4
39	7.7	3.3	537	291	9.4
42	7.7	3.2	538	292	9.4
45	7.6	3.2	539	294	9.4
48	7.6	3.2	540	295	9.5
51	7.6	3.2	540	296	9.4
54	7.6	3.2	541	297	9.4
57	7.6	3.2	541	298	9.4
60	7.6	3.2	541	299	9.5
63	7.6	3.2	542	300	9.5
66	7.6	3.3	542	301	9.4
69	7.6	3.3	542	302	9.4
72	7.6	3.3	542	302	9.4
75	7.6	3.3	542	303	9.4
78	7.6	3.3	542	304	9.3
81	7.6	3.3	543	305	9.3
84	7.6	3.4	544	306	9.3
87	7.6	3.5	543	306	9.2
90	7.5	3.6	546	307	8.2
93	7.5	3.7	551	308	6.4
96	7.4	3.9	564	309	4.3
99	7.3	4.0	584	309	2.3

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	4.1	610	305	0.4
105	7.3	4.2	636	301	<0.1
108	7.3	4.2	651	298	<0.1
111	7.3	4.2	663	296	<0.1
114	7.3	4.3	670	293	<0.1
117	7.4	4.3	678	291	<0.1
120	7.4	4.3	683	289	<0.1
123	7.4	4.4	688	287	<0.1
126	7.4	4.4	694	285	<0.1
129	7.4	4.4	702	282	<0.1
132	7.4	4.4	708	278	<0.1
135	7.4	4.5	715	276	<0.1
138	7.5	4.5	720	272	<0.1
141	7.5	4.5	725	269	<0.1
144	7.5	4.5	731	265	<0.1
147	7.5	4.6	736	262	<0.1
150	7.5	4.6	740	259	<0.1
153	7.5	4.6	743	255	<0.1
156	7.6	4.6	747	252	<0.1
159	7.6	4.6	750	248	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, breezy, ~20°s F
Location: HPL-002

Date: 3/17/08
Field Crew: CEC

Start time: 1247 **Finish time:** 1350
Remarks: DO profile was measured on 3/4 & 3/5/08. ORP was measured with new probe.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.8	0.3	550	283	10.5
3	7.8	1.0	546	285	10.2
6	7.8	2.1	540	286	10.3
9	7.8	2.6	541	288	10.2
12	7.8	2.8	540	289	10.2
15	7.8	3.0	539	290	10.1
18	7.8	3.1	538	292	10.1
21	7.8	3.2	538	293	10.0
24	7.8	3.3	538	294	10.0
27	7.8	3.4	538	295	9.9
30	7.8	3.4	538	296	9.8
33	7.8	3.4	538	297	9.9
36	7.7	3.4	537	300	9.4
39	7.7	3.4	536	302	9.3
42	7.6	3.3	537	303	9.2
45	7.6	3.3	538	304	9.3
48	7.6	3.3	538	305	9.3
51	7.6	3.3	539	305	9.3
54	7.6	3.3	539	306	9.3
57	7.6	3.3	540	307	9.2
60	7.6	3.3	540	307	9.2
63	7.6	3.3	540	308	9.2
66	7.6	3.3	541	309	9.1
69	7.6	3.3	542	310	9.1
72	7.6	3.3	542	310	9.2
75	7.6	3.3	542	311	9.2
78	7.6	3.3	543	312	9.1
81	7.5	3.3	543	312	9.1
84	7.5	3.3	544	313	9.1
87	7.5	3.3	544	313	9.0
90	7.5	3.6	545	314	8.3
93	7.5	3.7	549	315	6.7
96	7.4	3.9	563	317	4.6
99	7.3	4.0	580	318	1.8

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	4.1	612	315	0.5
105	7.3	4.2	639	313	<0.1
108	7.3	4.2	652	311	<0.1
111	7.3	4.2	663	309	<0.1
114	7.3	4.3	670	307	<0.1
117	7.3	4.3	680	306	<0.1
120	7.4	4.3	684	304	<0.1
123	7.4	4.4	691	302	<0.1
126	7.4	4.4	697	300	<0.1
129	7.4	4.4	704	297	<0.1
132	7.4	4.4	709	295	<0.1
135	7.4	4.5	716	292	<0.1
138	7.5	4.5	721	289	<0.1
141	7.5	4.5	727	286	<0.1
144	7.5	4.5	732	283	<0.1
147	7.5	4.6	737	277	<0.1
150	7.5	4.6	741	274	<0.1
153	7.5	4.6	744	271	<0.1
156	7.5	4.6	748	268	<0.1
159	7.6	4.6	750	264	<0.1
162	7.6	4.7	752	261	<0.1
165	7.6	4.7	753	259	<0.1
168	7.6	4.7	754	255	<0.1
171	7.6	4.7	755	252	<0.1
174	7.6	4.7	755	249	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, breezy, ~20°s F
Location: HPL-003

Date: 3/17/08
Field Crew: CEC

Start time: 1115 **Finish time:** 1223
Remarks: DO profile was measured on 3/3 & 3/4/08. ORP was measured with new probe.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.7	0.9	552	270	10.8
3	7.8	1.4	544	283	10.5
6	7.8	2.4	540	287	10.3
9	7.8	2.6	540	289	10.3
12	7.8	2.8	539	291	10.2
15	7.8	3.0	539	293	10.2
18	7.8	3.1	539	294	10.1
21	7.8	3.2	539	295	10.0
24	7.8	3.3	538	296	10.0
27	7.8	3.3	538	297	9.9
30	7.8	3.4	538	298	9.9
33	7.8	3.4	538	299	9.9
36	7.8	3.4	538	299	9.8
39	7.8	3.4	538	300	9.8
42	7.7	3.4	538	301	9.3
45	7.7	3.4	536	304	9.2
48	7.6	3.3	538	306	9.3
51	7.6	3.3	539	307	9.3
54	7.6	3.3	539	308	9.2
57	7.6	3.4	539	308	9.2
60	7.6	3.4	539	309	9.2
63	7.6	3.4	540	309	9.1
66	7.6	3.4	540	310	9.2
69	7.6	3.4	541	311	9.2
72	7.5	3.4	541	312	9.2
75	7.6	3.5	541	312	9.2
78	7.6	3.6	542	312	9.1
81	7.5	3.5	543	313	9.1
84	7.5	3.5	544	314	8.9
87	7.5	3.6	544	315	8.8
90	7.5	3.7	545	315	8.0
93	7.5	3.9	553	316	5.2
96	7.5	4.0	565	317	2.2
99	7.3	4.0	586	318	0.5

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	4.1	615	315	<0.1
105	7.2	4.1	634	313	<0.1
108	7.3	4.2	652	310	<0.1
111	7.3	4.2	663	308	<0.1
114	7.3	4.3	671	306	<0.1
117	7.3	4.3	680	301	<0.1
120	7.3	4.3	682	300	<0.1
123	7.4	4.4	690	298	<0.1
126	7.4	4.4	698	296	<0.1
129	7.4	4.4	704	294	<0.1
132	7.4	4.4	710	292	<0.1
135	7.4	4.5	716	290	<0.1
138	7.4	4.5	721	288	<0.1
141	7.5	4.5	727	286	<0.1
144	7.5	4.5	732	282	<0.1
147	7.5	4.6	737	280	<0.1
150	7.5	4.6	742	277	<0.1
153	7.5	4.6	745	275	<0.1
156	7.5	4.6	748	273	<0.1
159	7.5	4.6	751	269	<0.1
162	7.6	4.6	752	267	<0.1
165	7.6	4.7	754	264	<0.1
168	7.6	4.7	754	262	<0.1
171	7.6	4.7	755	258	<0.1
174	7.6	4.7	755	254	<0.1
177	7.6	4.7	756	250	<0.1
180	7.6	4.7	756	247	<0.1
183	7.6	4.7	757	245	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~20°s F
Location: HPL-004

Date: 3/10/08
Field Crew: CEC

Start time: 1300 **Finish time:** 1500
Remarks: DO profile was measured on 3/3/08.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.8	0.5	565	190	10.5
3	7.7	1.5	545	182	10.3
6	7.7	2.2	543	183	10.2
9	7.7	2.5	540	184	10.2
12	7.7	2.7	540	186	10.2
15	7.7	2.9	539	186	10.1
18	7.7	3.1	538	187	10.1
21	7.7	3.2	537	188	10.0
24	7.7	3.3	537	188	10.0
27	7.7	3.3	537	189	9.9
30	7.7	3.4	537	189	9.9
33	7.7	3.4	537	190	9.9
36	7.7	3.4	537	191	9.9
39	7.6	3.4	536	193	9.8
42	7.6	3.4	536	194	9.4
45	7.6	3.4	536	195	9.3
48	7.5	3.4	537	196	9.2
51	7.5	3.3	538	196	9.3
54	7.5	3.3	538	197	9.3
57	7.5	3.3	538	198	9.3
60	7.5	3.3	538	198	9.1
63	7.5	3.2	540	199	9.2
66	7.5	3.3	540	200	9.0
69	7.5	3.3	540	200	9.2
72	7.5	3.4	540	200	9.2
75	7.5	3.4	540	200	9.1
78	7.5	3.5	540	201	9.1
81	7.5	3.5	541	201	8.9
84	7.5	3.5	542	202	8.9
87	7.5	3.5	543	202	8.9
90	7.5	3.7	545	202	8.0
93	7.4	3.8	551	203	5.2
96	7.3	4.0	568	204	2.9
99	7.2	4.1	588	204	0.8

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.1	617	203	0.1
105	7.2	4.1	635	201	0.1
108	7.2	4.2	649	198	0.1
111	7.2	4.2	659	197	0.1
114	7.3	4.3	671	195	0.1
117	7.3	4.3	677	194	<0.1
120	7.3	4.3	685	193	<0.1
123	7.3	4.4	688	192	<0.1
126	7.3	4.4	696	191	<0.1
129	7.3	4.4	702	189	<0.1
132	7.3	4.4	705	187	<0.1
135	7.4	4.5	713	185	<0.1
138	7.4	4.5	720	183	0.1
141	7.4	4.5	726	181	<0.1
144	7.4	4.5	730	179	0.1
147	7.4	4.6	735	177	0.1
150	7.4	4.6	739	175	0.1
153	7.5	4.6	743	174	0.1
156	7.5	4.6	747	172	<0.1
159	7.5	4.6	749	170	<0.1
162	7.5	4.7	751	168	0.2
165	7.5	4.7	752	166	0.3
168	7.5	4.7	753	164	0.1
171	7.5	4.7	753	163	0.1
174	7.5	4.7	754	161	<0.1
177	7.5	4.7	755	158	<0.1
180	7.5	4.7	756	156	<0.1
183	7.6	4.7	757	154	NM
186	7.7	4.8	764	153	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~20°s F
Location: HPL-005

Date: 3/14/08
Field Crew: CEC

Start time: 0910 **Finish time:** 1030
Remarks: DO profile was measured on 3/4 & 3/5/08.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.8	0.3	551	192	10.5
3	7.7	1.6	543	197	10.6
6	7.7	2.2	541	200	10.4
9	7.7	2.5	541	202	10.3
12	7.7	2.8	540	202	10.3
15	7.7	3.0	539	204	10.2
18	7.7	3.1	538	206	10.2
21	7.7	3.2	538	206	10.2
24	7.7	3.3	538	207	10.1
27	7.7	3.3	537	208	10.1
30	7.7	3.4	537	209	10.0
33	7.7	3.4	537	210	10.0
36	7.7	3.4	537	211	9.9
39	7.7	3.4	537	212	9.9
42	7.7	3.4	537	213	9.7
45	7.6	3.4	537	216	9.5
48	7.5	3.3	538	217	9.4
51	7.5	3.3	538	218	9.2
54	7.5	3.3	538	219	9.3
57	7.5	3.4	539	220	9.3
60	7.5	3.4	538	221	9.2
63	7.5	3.4	539	222	9.2
66	7.5	3.4	539	223	9.1
69	7.5	3.4	540	224	9.0
72	7.5	3.4	540	224	9.1
75	7.5	3.5	540	225	9.1
78	7.5	3.5	540	225	9.1
81	7.5	3.6	541	226	9.1
84	7.5	3.7	543	226	8.6
87	7.5	3.8	544	226	8.1
90	7.4	3.9	548	226	7.3
93	7.4	3.9	555	227	6.5
96	7.3	4.0	568	227	5.4
99	7.2	4.1	590	223	2.2

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.1	618	215	0.5
105	7.2	4.2	640	212	NM
108	7.2	4.2	656	207	<0.1
111	7.3	4.3	665	204	<0.1
114	7.3	4.3	674	201	<0.1
117	7.3	4.3	680	199	<0.1
120	7.3	4.3	684	196	<0.1
123	7.3	4.4	692	195	<0.1
126	7.3	4.4	699	192	<0.1
129	7.3	4.4	704	189	<0.1
132	7.4	4.5	711	187	<0.1
135	7.4	4.5	716	184	<0.1
138	7.4	4.5	722	182	<0.1
141	7.4	4.5	727	180	<0.1
144	7.4	4.5	732	177	<0.1
147	7.4	4.6	737	175	<0.1
150	7.5	4.6	742	173	<0.1
153	7.5	4.6	746	169	<0.1
156	7.5	4.6	748	168	<0.1
159	7.5	4.6	750	166	<0.1
162	7.5	4.7	751	164	<0.1
165	7.5	4.7	753	162	<0.1
168	7.5	4.7	754	160	<0.1
171	7.5	4.7	754	159	<0.1
174	7.5	4.7	754	157	<0.1
177	7.5	4.7	755	154	<0.1
180	7.6	4.7	757	151	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, light snow, ~30°s F
Location: HPL-006

Date: 3/14/08
Field Crew: CEC

Start time: 1050 **Finish time:** 1151
Remarks: DO profile was measured on 3/3 & 3/4/08.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.8	0.0	550	160	10.5
3	7.8	1.4	544	172	10.4
6	7.7	2.3	541	175	10.3
9	7.7	2.7	540	177	10.2
12	7.7	2.8	540	180	10.1
15	7.7	3.0	539	181	10.1
18	7.7	3.2	538	183	10.0
21	7.7	3.2	538	184	9.9
24	7.7	3.3	538	186	9.9
27	7.7	3.4	537	187	9.9
30	7.7	3.4	537	189	9.8
33	7.7	3.4	538	191	9.8
36	7.6	3.4	537	193	9.8
39	7.6	3.4	537	194	9.4
42	7.6	3.4	537	196	9.3
45	7.6	3.4	537	198	9.2
48	7.5	3.3	538	199	9.2
51	7.5	3.3	539	200	9.3
54	7.5	3.3	539	201	9.2
57	7.5	3.3	539	202	9.1
60	7.5	3.4	539	203	9.1
63	7.5	3.3	540	205	9.1
66	7.5	3.3	541	206	9.0
69	7.5	3.3	541	207	9.2
72	7.5	3.4	541	207	9.2
75	7.5	3.4	541	208	9.1
78	7.5	3.4	541	208	9.0
81	7.5	3.4	543	209	8.7
84	7.5	3.4	543	210	8.8
87	7.5	3.6	544	210	8.5
90	7.4	3.8	546	211	6.9
93	7.4	3.9	553	212	4.0
96	7.3	4.0	571	213	2.3
99	7.2	4.1	587	210	0.7

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.1	618	200	<0.1
105	7.2	4.2	641	194	<0.1
108	7.2	4.2	652	191	<0.1
111	7.3	4.2	666	188	<0.1
114	7.3	4.3	674	186	<0.1
117	7.3	4.3	681	184	<0.1
120	7.3	4.3	686	182	<0.1
123	7.3	4.4	692	180	<0.1
126	7.3	4.4	698	178	<0.1
129	7.4	4.4	705	175	<0.1
132	7.4	4.5	711	173	<0.1
135	7.4	4.5	717	171	<0.1
138	7.4	4.5	721	168	<0.1
141	7.4	4.5	726	166	<0.1
144	7.4	4.5	732	164	<0.1
147	7.4	4.6	737	162	<0.1
150	7.5	4.6	742	159	<0.1
153	7.5	4.6	745	157	0.1
156	7.5	4.6	748	154	0.1
159	7.5	4.7	751	152	<0.1
162	7.5	4.7	752	150	<0.1
165	7.5	4.7	753	148	<0.1
168	7.5	4.7	754	145	<0.1
171	7.5	4.7	755	143	<0.1
174	7.5	4.7	755	141	<0.1
177	7.5	4.7	755	139	<0.1
180	7.6	4.7	756	137	<0.1
183	7.6	4.8	757	134	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, breezy, ~20°s F
Location: HPL-007

Date: 3/10/08
Field Crew: CEC

Start time: 1530 **Finish time:** 1705
Remarks: DO profile was measured on 3/3 & 3/4/08.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.8	0.3	556	182	10.4
3	7.8	1.4	543	182	10.3
6	7.7	2.2	540	182	10.2
9	7.7	2.5	540	183	10.2
12	7.7	2.7	539	183	10.2
15	7.7	2.9	539	183	10.1
18	7.7	3.0	538	183	10.0
21	7.7	3.2	538	184	10.0
24	7.7	3.2	537	184	10.0
27	7.7	3.3	537	184	9.9
30	7.7	3.3	537	185	9.8
33	7.7	3.4	537	185	9.8
36	7.7	3.4	536	186	9.8
39	7.7	3.5	536	186	9.3
42	7.7	3.5	536	187	9.3
45	7.6	3.5	537	189	9.3
48	7.6	3.4	537	190	9.3
51	7.6	3.4	537	190	9.3
54	7.5	3.4	538	191	9.2
57	7.5	3.4	539	192	9.2
60	7.5	3.4	538	192	9.1
63	7.5	3.4	540	193	9.1
66	7.5	3.3	541	194	9.3
69	7.5	3.4	540	194	9.2
72	7.5	3.4	541	194	9.2
75	7.5	3.4	541	195	9.1
78	7.5	3.5	541	195	8.7
81	7.5	3.5	541	195	8.5
84	7.5	3.5	542	196	8.6
87	7.5	3.6	543	196	8.2
90	7.5	3.7	544	196	7.0
93	7.4	3.8	550	197	4.4
96	7.3	3.9	563	199	1.7
99	7.2	4.0	586	201	0.5

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.1	610	201	<0.1
105	7.2	4.2	641	200	<0.1
108	7.2	4.2	650	198	<0.1
111	7.2	4.2	663	198	<0.1
114	7.3	4.3	672	197	<0.1
117	7.3	4.3	679	196	<0.1
120	7.3	4.3	685	195	<0.1
123	7.3	4.4	691	194	<0.1
126	7.3	4.4	697	193	<0.1
129	7.3	4.4	703	192	<0.1
132	7.4	4.4	708	191	<0.1
135	7.4	4.5	714	189	<0.1
138	7.4	4.5	720	187	<0.1
141	7.4	4.5	725	186	<0.1
144	7.4	4.5	731	184	<0.1
147	7.4	4.6	735	183	<0.1
150	7.5	4.6	740	181	<0.1
153	7.5	4.6	744	179	<0.1
156	7.5	4.6	747	178	<0.1
159	7.5	4.6	749	176	<0.1
162	7.5	4.7	751	175	<0.1
165	7.5	4.7	752	173	<0.1
168	7.5	4.7	753	171	<0.1
171	7.5	4.7	754	167	<0.1
174	7.5	4.7	754	165	<0.1
177	7.5	4.7	755	161	<0.1
180	7.5	4.7	756	158	<0.1
183	7.5	4.7	756	155	<0.1

North Jackson Company
Water Level Summary

Project Name: Humboldt Mill

Location	Description of Measuring Point	Date	Measuring Point Elevation (ft MSL)	Depth to Water (ft)	Water Elevation (ft MSL)
HYG-1	Existing Pit Well	3/11/08	1543.43	8.22	1535.21
HW-1	Existing Pit Well	3/11/08	1541.86	6.55	1535.31
HW-1A	Existing Pit Well	3/11/08	1541.82	6.52	1535.30
HW-2	Existing Pit Well	3/11/08	1544.99	8.98	1536.01
HW-3	Existing Pit Well	3/11/08	1584.85	36.04	1548.81
HW-4	Existing Pit Well	3/11/08	1582.02	30.06	1551.96
HW-5	Existing Pit Well	3/11/08	1543.03	6.92	1536.11
HW-5A	Existing Pit Well	3/11/08	1543.30	6.99	1536.31
HW-6	Existing Pit Well	3/11/08	1537.63	4.60	1533.03
HW-6A	Existing Pit Well	3/11/08	1537.58	4.00	1533.58
HMS-001	Staff Gauge	3/11/08	1597.00	f	NM
HMS-002	Staff Gauge	3/11/08	1589.79	f	NM
HMS-003	Staff Gauge	3/11/08	1588.05	f	NM
HMS-004	Staff Gauge	3/11/08	1587.83	f	NM
HMS-005	Staff Gauge	3/11/08	1587.81	f	NM
HMS-006	Staff Gauge	3/11/08	1583.31	f	NM
HMS-007	Staff Gauge	3/11/08	1574.25	f	NM
HMP-004	Staff Gauge	3/11/08	1531.11	f	NM
HMP-005	Staff Gauge	3/11/08	1541.91	f	NM
HMP-006	Well Point	3/11/08	1752.52	f	NM
HMP-007	Staff Gauge	3/11/08	1571.17	f	NM
HMP-008	Staff Gauge	3/11/08	1535.92	f	NM
HMP-009	Staff Gauge	3/11/08	1532.64	f	NM
TDP001	Driven Point	3/11/08	1604.00	f	NM
TDP002	Driven Point	3/11/08	1610.80	d	NM

Notes: All monitoring well depths measured from top of PVC (at mark, if present).
Staff gauges were read directly.
d Dry
f Frozen

North Jackson Company
Water Level Summary

Project Name: Humboldt Mill

Location	Description of Measuring Point	Date	Measuring Point Elevation (ft MSL)	Depth to Water (ft)	Water Elevation (ft MSL)
MW-5	Monitoring Well	3/11/08	1589.08	10.18	1578.90
MW-6	Monitoring Well	3/11/08	1590.68	23.26	1567.42
MW-7	Monitoring Well	3/11/08	1589.19	27.05	1562.14
MW-9	Monitoring Well	3/11/08	1614.07	26.81	1587.26
MW-11	Monitoring Well	3/12/08	1594.26	6.66	1587.60
MW-12	Monitoring Well	3/12/08	1590.26	5.68	1584.58
MW-101	Monitoring Well	3/11/08	1600.41	7.25	1593.16
MW-102	Monitoring Well	3/11/08	1596.82	8.41	1588.41
MW-103	Monitoring Well	3/11/08	1596.04	9.53	1586.51
MW-104	Monitoring Well	3/11/08	1591.53	11.05	1580.48
MW-601	Monitoring Well	3/11/08	1603.07	6.99	1596.08
MW-602	Monitoring Well	3/11/08	1621.41	19.78	1601.63
MW-603	Monitoring Well	3/11/08	1613.80	18.78	1595.02
MW-604	Monitoring Well	3/11/08	1595.56	6.99	1588.57
MW-605	Monitoring Well	3/11/08	1596.68	7.68	1589.00
MW-606	Monitoring Well	3/11/08	1615.10	14.64	1600.46
P-602	Monitoring Well	3/11/08	1621.32	19.69	1601.63
P-604	Monitoring Well	3/11/08	1595.42	7.67	1587.75
P-605	Monitoring Well	3/11/08	1596.60	7.62	1588.98
PW-1	Monitoring Well	3/11/08	1589.43	13.39	1576.04
PW-2	Monitoring Well	3/11/08	1589.59	38.18	1551.41
PW-4	Monitoring Well	3/11/08	1592.03	12.81	1579.22
KMW-1	Monitoring Well	3/11/08	1588.75	9.42	1579.33
KMW-2	Monitoring Well	3/11/08	1589.19	8.18	1581.01
KMW-3	Monitoring Well	3/11/08	1590.58	16.33	1574.25
KMW-4	Monitoring Well	3/11/08	1586.62	30.11	1556.51
KMW-5	Monitoring Well	3/11/08	1597.88	43.33	1554.55
KMW-6A	Monitoring Well	3/11/08	1598.47	43.52	1554.95
KMW-7	Monitoring Well	3/11/08	1582.50	27.07	1555.43
KMW-9	Monitoring Well	3/11/08	1581.40	26.75	1554.65
KMW-9P	Monitoring Well	3/11/08	1581.47	26.64	1554.83
KMW-10	Monitoring Well	3/11/08	1596.92	8.25	1588.67

North Jackson Company
Groundwater Field Data Summary

Project Name: Humboldt Mill

Sample ID	Sampling Date	Temp (°C)*	Spec Cond (mmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)	Turbidity (NTU)
HYG-1	3/17/08	11	514	7.3	3.8	30	<1
HW-1	3/20/08	9.0	502	7.3	<0.005	-40	28
HW-1A	3/17/08	9.3	553	7.5	6.5	-24	<1
HW-2	3/17/08	6.2	530	7.7	0.25	-118	23
HW-3	3/18/08	7.7	167	NM	<0.05	104	145
HW-4	3/18/08	6.6	548	NM	<0.005	30	<1
HW-5	3/17/08	7.8	554	7.6	<0.005	-151	29
HW-5A	3/17/08	6.7	526	7.5	7.5	-33	29
HW-6	3/17/08	7.0	503	7.6	0.1	-140	2
HW-6A	3/17/08	8.8	523	7.5	<0.005	-167	NM
KMW-2	3/19/08	6.3	607	6.9	<0.005	-95	30
KMW-3	3/12/08	8.9	506	6.5	<0.005	-58	<1
KMW-4	3/19/08	7.9	369	NM	<0.005	-6	<1
KMW-5	3/18/08	7.4	426	6.5	<0.4	-88	43
KMW-7	3/12/08	9.8	1,342	6.0	<0.005	1	<1
KMW-9	3/12/08	8.9	539	6.2	<0.005	36	2
KMW-9P	3/20/08	8.2	1,725	NM	<0.005	-71	<1
KMW-10	3/19/08	4.8	201	NM	<0.005	-34	<1
MW-5	3/20/08	i	i	i	i	i	i
MW-11	3/12/08	9.0	2,349	6.2	1.2	-49	35
MW-12	3/12/08	8.7	309	7.1	<0.05	-88	<1

North Jackson Company
Groundwater Field Data Summary

Project Name: Humboldt Mill

Sample ID	Sampling Date	Temp (°C)*	Spec Cond (mmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)	Turbidity (NTU)
MW-101	3/18/08	7.8	391	6.8	<0.005	-108	19
MW-102	3/19/08	i	i	i	i	i	i
MW-103	3/20/08	8.0	708	NM	<0.005	-90	<1
MW-601	3/19/08	i	i	i	i	i	i
MW-602	3/13/08	8.3	203	7.3	<0.005	-144	<1
MW-603	3/19/08	8.8	152	NM	0.2	-23	5
MW-604	3/13/08	3.0	276	6.7	<0.005	-77	<1
MW-605	3/13/08	6.7	216	7.9	<0.005	-31	13
MW-606	3/19/08	7.7	195	NM	0.3	-102	17
P-602	3/13/08	8.7	156	7.8	<0.005	-214	<1
P-604	3/13/08	6.7	239	6.7	0.01	4	62
P-605	3/13/08	8.2	237	7.2	<0.005	-128	<1
PW-2	3/19/08	i	i	i	i	i	i

i Insufficient water for collection of field parameters.
NM Not measured.
* Temperature measurements were affected by low-flow methodology and may be considerably warmer or colder than actual conditions.

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)	Ferrous Iron (mg/L)
HPL-003 3'	2/28/08	2.0	544	7.7	10.5	283	NM
HPL-003 15'	2/28/08	3.1	539	7.7	10.3	293	NM
HPL-003 60'	2/28/08	3.3	535	7.5	9.4	309	NM
HPL-003 120'	2/28/08	4.2	682	7.3	<0.1	300	<0.02
HPL-003 175'	2/28/08	4.2	739	7.5	<0.1	254	0.2
HPL-004 3'	3/3/08	1.6	534	7.7	11.9	182	NM
HPL-004 15'	3/3/08	3.0	535	7.7	11.3	184	NM
HPL-004 60'	3/3/08	3.3	536	7.5	10.0	198	NM
HPL-004 120'	3/3/08	4.3	675	7.3	<0.1	193	<0.02
HPL-004 175'	3/3/08	4.2	746	7.5	<0.1	161	<0.02

NM Not measured

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)
EBR-001	2/19/08	0.0	108	6.7	6.2	103
MBR-001	3/6/08	0.0	148	6.8	10.8	93
WBR-001	2/19/08	0.0	112	5.6	5.0	234
WBR-002	2/19/08	1.3	272	6.5	4.1	-22
WBR-003	2/19/08	0.0	224	6.4	3.2	53
MER-001	2/18/08	0.0	81	6.8	9.3	102
MER-002	2/19/08	0.0	104	6.7	9.0	64
MER-003	2/18/08	0.0	120	6.9	8.8	64
WLD-001NW	No sample	d	d	d	d	d
WLD-001SE	No sample	f	f	f	f	f
WLD-001	2/19/08	2.9	641	6.6	1	-55
WLD-002	3/5/08	1.9	141	6.3	<1.0	-107
WLD-003	3/5/08	3.7	122	6.9	<1.0	-95
HMP-004	2/18/08	0.0	559	7.2	5.6	106
HMP-005	2/18/08	0.6	385	6.7	0.8	32
HMP-006	No sample	f	f	f	f	f
HMP-007	2/19/08	0.0	283	6.7	0.2	64
HMP-009	2/18/08	1.5	518	7.6	8.6	14
HTP-001	No sample	f	f	f	f	f
HTP-002	3/5/08	3.2	157	6.9	<1.0	-212
LKL-001	3/5/08	4.0	75	7.0	6.8	104
LKL-002	3/5/08	4.2	76	6.9	6.0	108

d Dry
f Frozen

North Jackson Company
Flow Measurement Summary

Project Name: Humboldt Mill

Location	Measurement Date	Flow (cfs)
EBR-001	2/21/08	0.0
MBR-001	3/6/08	2.3
WBR-001	2/21/08	0.05
WBR-002	2/21/08	0.2
WBR-003	2/21/08	0.4
MER-001	2/22/08	19
MER-002	2/22/08	19
MER-003	2/22/08	17
WLD-001NW	2/13/08	0.0
WLD-001SE	2/13/08	0.0

Note: Ice-affected streamflow measurements may be considerably less accurate than ice-free measurements.

May 2008

NORTH
JACKSON
COMPANY

1004 Harbor Hills Drive, Suite 102 • Marquette, Michigan • 906.225.6787

June 11, 2008

Mr. Stephen V. Donohue
2737 South Ridge Road
P.O. Box 19012
Green Bay, WI 54307

Re: Humboldt Mill Site May 2008 Surface Water Quality Sampling & Flow Monitoring Event

Dear Mr. Donohue:

Attached is the draft Humboldt Mill Site May 2008 Surface Water Quality Sampling & Flow Field Report.

If you have any questions, please call.

Sincerely,

Kari Paulson

North Jackson Company
Surface Water Monitoring Report

Project Name: Humboldt Mill Site

Contact: North Jackson Company
1004 Harbor Hills Drive, Suite 102
Marquette, Michigan 49855
Phone (906) 225-6787

Summary of Monitoring Activities

Field Date(s): 4/30/08, 5/2/08, 5/5/08, 5/6/08, 5/7/08

Activities: Collected surface water samples from EBR-001, MBR-001, WBR-001, WBR-002, WBR-003, MER-001, MER-002, MER-003, WLD-001NW, WLD-001SE, WLD-001, WLD-002, WLD-003, HMP-004, HMP-005, HMP-006, HMP-007, HMP-009, HTP-001, HTP-002, LKL-001 and LKL-002.

Measured flow at EBR-001, MBR-001, WBR-001, WBR-002, WBR-003, MER-001, MER-002, MER-003, WLD-001NW and WLD-001SE.

Collected flow data for Weir 1 & Weir 2.

Measured water levels at HMP locations on 4/30/08.

Collected masked duplicate and field blank samples.

Field Report Attachments

Field Analytical Data Summary	yes
Quality Control Summary	yes
Flow Measurement	yes
Water Sampling Log	yes
Chain of Custody Numbers	20080505, 20080506, 20080508

Laboratory Analysis

Pace - Metals, anions, cations, general chemistry

Sampler Name(s): Chris Cantway (CEC), Richard Eagle (RRE), and Curt Sheffield (CLS)

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)
EBR-001	5/5/08	8.8	68	7.2	8.4	120
MBR-001	5/5/08	7.1	88	6.8	9.3	83
WBR-001	5/5/08	7.0	76	NM	8	NM
WBR-002	5/5/08	9.0	124	6.3	9	NM
WBR-003	5/6/08	7.6	125	6.3	5.1	113
MER-001	5/5/08	8.0	37	6.4	9.7	114
MER-002	5/5/08	8.4	38	5.7	9	NM
MER-003	5/5/08	8.9	42	5.7	9.8	134
WLD-001NW	5/6/08	7.1	151	7.0	6.4	115
WLD-001SE	5/6/08	6.2	186	6.7	2.8	105
WLD-001	5/6/08	8.0	210	6.8	3.1	-28
WLD-002	5/6/08	7.3	34	5.8	7.9	100
WLD-003	5/6/08	9.9	41	6.6	12.5	58
HMP-004	5/6/08	5.0	349	6.6	1	-77
HMP-005	5/6/08	7.0	334	6.6	5.0	5
HMP-006	5/6/08	9.1	30	5.9	10.9	167
HMP-007	5/6/08	10	269	6.4	7.4	32
HMP-009	5/7/08	5.9	464	7.2	10.4	-5
HTP-001	5/6/08	14	85	7.2	11.1	23
HTP-002	5/6/08	9.5	87	6.8	9.4	47
LKL-001	5/7/08	8.0	64	6.5	9.9	39
LKL-002	5/7/08	7.8	64	6.5	9.7	27

NM Not measured.

North Jackson Company
Flow Measurement Summary

Project Name: Humboldt Mill Site

Location	Measurement Date	Flow (cfs)
EBR-001	4/30/08	2.0
MBR-001	4/30/08	15
WBR-001	4/30/08	1.9
WBR-002	4/30/08	4.0
WBR-003	4/30/08	5.8
MER-001	5/2/08	106
MER-002	5/2/08	114
MER-003	5/2/08	129
WLD-001NW	4/30/08	0.03
WLD-001SE	4/30/08	<0.05

North Jackson Company
Water Level Summary

Project Name: Humboldt Mill Site

Location	Description of Measuring Point	Date	Measuring Point Elevation (ft MSL)	Water Level (ft)	Water Elevation (ft MSL)
HMP-004	Staff Gauge	4/30/08	1531.11	1.47	1532.58
HMP-005	Staff Gauge	4/30/08	1541.91	1.52	1543.43
HMP-006	Well Point	4/30/08	1752.52	4.12	1748.40
HMP-007	Staff Gauge	4/30/08	1571.17	1.05	1572.22
HMP-008	Staff Gauge	4/30/08	1535.92	1.40	1537.32
HMP-009	Staff Gauge	4/30/08	1532.64	1.84	1534.48

Note: The well point depth was measured from top of riser.
Staff gauges were read directly.

North Jackson Company
Quality Control Sampling Summary

Project Name: Humboldt Mill Site

Sample ID	Sampling Date	Description
DUP-001	5/5/08	Masked duplicate (MBR-001)
DUP-002	5/6/08	Masked duplicate (HTP-002)
DUP-003	5/7/08	Masked duplicate (LKL-001)
FBK-001	5/5/08	Field blank
FBK-002	5/6/08	Field blank
FBK-005	5/7/08	Field blank

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~40°s F
Location: EBR-001

Date: 5/5/08
Sampler(s): CEC/RRE
Sampling time: 1345

Odor: None
Appearance: Clear

Temperature (°C): 8.8
Spec. Cond. (µmhos/cm @ 25°C): 68
Conductivity (µmhos): 47
pH (SU): 7.2
D.O. (ppm): 8.4
ORP (mV): 120

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Flow measured for the 2 culverts. RP=1.64' (4/30/08).

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement RRE/CEC 4/30/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
18.4	0.5	3.0	0.05		1.5	0.08
17.4	1.0	2.5	0.03	0.03	2.5	0.08
16.4	1.0	2.7	0.03	0.01	2.7	0.05
15.4	1.0	3.5	0.03	-0.01	3.5	0.04
14.4	1.0	3.7	0.03		3.7	0.11
13.4	1.0	3.6	-0.01		3.6	-0.04
12.4	1.0	3.7	-0.02		3.7	-0.07
11.4	0.5	3.2	0.00		1.6	0.00

Flow: 0.2

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
9.9	0.5	3.4	0.02	1.7	0.03
8.9	1.0	3.5	0.07	3.5	0.25
7.9	1.0	3.6	0.09	3.6	0.32
6.9	1.0	3.6	0.13	3.6	0.47
5.9	1.0	3.5	0.06	3.5	0.21
4.9	1.0	2.5	0.09	2.5	0.23
3.9	1.0	2.3	0.10	2.3	0.23
2.9	0.5	2.9	-0.01	1.5	-0.01

Flow: 1.7

Total flow: **2.0**

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Location: MBR-001

Date: 5/5/08
Sampler(s): CLS/CEC
Sampling time: 1200

Odor: None
Appearance: Slight tannin

Temperature (°C): 7.1
Spec. Cond. (µmhos/cm @ 25°C): 88
Conductivity (µmhos): 58
pH (SU): 6.8
D.O. (ppm): 9.3
ORP (mV): 83

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
4	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-001) collected. Lab MS/MSD collected.
RP=3.54' (4/30/08).

Meter units: ft/sec

Flow Measurement RRE/CEC 4/30/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
1.0	0.5	0.6	0.41	0.3	0.12
2.0	1.0	0.8	0.34	0.8	0.27
3.0	1.0	1.0	0.31	1.0	0.31
4.0	0.8	1.3	0.54	1.0	0.53
4.5	0.5	1.4	0.78	0.7	0.55
5.0	0.5	1.3	1.03	0.7	0.67
5.5	0.5	1.3	1.24	0.7	0.81
6.0	0.5	1.5	1.51	0.8	1.13
6.5	0.5	1.5	1.52	0.8	1.14
7.0	0.5	1.5	1.66	0.8	1.25
7.5	0.5	1.5	1.74	0.8	1.31
8.0	0.5	1.3	1.69	0.7	1.10
8.5	0.5	1.4	1.60	0.7	1.12
9.0	0.5	1.4	1.33	0.7	0.93
9.5	0.5	1.3	1.33	0.7	0.86
10.0	0.5	1.2	1.16	0.6	0.70
10.5	0.5	1.2	1.04	0.6	0.62
11.0	0.5	1.1	0.80	0.6	0.44
11.5	0.5	1.1	0.55	0.6	0.30
12.0	0.5	1.3	0.48	0.7	0.31
12.5	0.7	1.2	0.30	0.8	0.23
13.3	0.4	1.2	0.20	0.5	0.10

Total flow: 15

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Location: WBR-001

Date: 5/5/08
Sampler(s): CEC/RRE
Sampling time: 1145

Odor: None
Appearance: Brackish

Temperature (°C): 7.0
Spec. Cond. (µmhos/cm @ 25°C): 76
Conductivity (µmhos): 50
pH (SU): NM
D.O. (ppm): 8
ORP (mV): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=0.55' (4/30/08).

Meter units: ft/sec
Flow Measurement RRE 4/30/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
1.0	0.2	0.0	0.00	0.00	0.000
1.4	0.4	1.0	0.08	0.40	0.032
1.8	0.4	1.3	0.14	0.52	0.073
2.2	0.4	1.3	0.65	0.52	0.338
2.6	0.4	1.3	0.70	0.52	0.364
3.0	0.4	1.3	0.61	0.52	0.317
3.4	0.4	1.4	0.57	0.56	0.319
3.8	0.4	1.4	0.48	0.56	0.269
4.2	0.4	1.2	0.29	0.48	0.139
4.6	0.4	1.1	0.14	0.44	0.062
5.0	0.4	0.6	0.06	0.24	0.014
5.4	0.4	0.3	0.02	0.12	0.002
5.8	0.2	0.0	0.00	0.00	0.000

Total flow: 1.9

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Location: WBR-002

Date: 5/5/08
Sampler(s): CEC/RRE
Sampling time: 1305

Odor: None
Appearance: Light brackish

Temperature (°C): 9.0
Spec. Cond. (µmhos/cm @ 25°C): 124
Conductivity (µmhos): 86
pH (SU): 6.3
D.O. (ppm): 9
ORP (mV): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=2.40' (4/30/08).

Meter units: ft/sec

Flow Measurement RRE 4/30/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Stream Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.6	0.2	0.0	0.00	0.0	0.00
1.0	0.4	0.2	0.04	0.1	0.00
1.4	0.4	0.3	1.04	0.1	0.12
1.8	0.4	0.6	1.05	0.2	0.25
2.2	0.4	0.7	1.36	0.3	0.38
2.6	0.4	0.9	1.22	0.4	0.44
3.0	0.4	1.0	1.71	0.4	0.68
3.4	0.4	1.0	1.80	0.4	0.72
3.8	0.4	0.9	1.29	0.4	0.46
4.2	0.4	0.9	1.09	0.4	0.39
4.6	0.4	0.9	0.90	0.4	0.32
5.0	0.4	0.8	0.42	0.3	0.13
5.4	0.4	0.4	0.36	0.2	0.06
5.8	0.4	0.3	0.12	0.1	0.01
6.2	0.4	0.2	0.26	0.1	0.02
6.6	0.2	0.0	0.00	0.0	0.00

Total Flow: **4.0**

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Location: WBR-003

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 0940

Odor: None
Appearance: Slight tannin

Temperature (°C): 7.6
Spec. Cond. (µmhos/cm @ 25°C): 125
Conductivity (µmhos): 83
pH (SU): 6.3
D.O. (ppm): 5.1
ORP (mV): 113

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
3	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Collected lab MS/MSD here.
RP=1.13' (4/30/08).

Meter units: ft/sec
Flow Measurement RRE/CEC 4/30/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Stream Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.5	0.0	0.00	0.0	0.00
1.0	0.7	1.4	0.07	1.0	0.07
1.4	0.4	1.5	0.43	0.6	0.26
1.8	0.4	1.6	0.83	0.6	0.53
2.2	0.4	1.7	0.81	0.7	0.55
2.6	0.4	1.7	0.80	0.7	0.54
3.0	0.4	1.7	0.70	0.7	0.48
3.4	0.4	1.7	0.41	0.7	0.28
3.8	0.4	1.7	0.13	0.7	0.09
4.2	0.4	1.6	0.32	0.6	0.20
4.6	0.4	1.7	0.57	0.7	0.39
5.0	0.4	1.7	0.91	0.7	0.62
5.4	0.4	1.7	0.94	0.7	0.64
5.8	0.4	1.6	0.88	0.6	0.56
6.2	0.4	1.7	0.72	0.7	0.49
6.6	0.4	1.5	0.28	0.6	0.17
7.0	0.7	1.5	0.01	1.1	0.01
8.0	1.0	0.7	-0.06	0.7	-0.04
9.0	1.0	0.4	-0.10	0.4	-0.04
10.0	1.0	0.3	-0.07	0.3	-0.02
11.0	0.5	0.0	0.00	0.0	0.00

Total Flow: 5.8

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~50°s F
Location: MER-001

Date: 5/5/08
Sampler(s): CEC/RRE
Sampling time: 1430

Odor: None
Appearance: Very slight tannin

Temperature (°C): 8.0
Spec. Cond. (µmhos/cm @ 25°C): 37
Conductivity (µmhos): 25
pH (SU): 6.4
D.O. (ppm): 9.7
ORP (mV): 114

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=4.07' (5/2/08).
Coefficients (ranging from .94 to .99) applied to measurements between 5' and 8'.

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement RRE/CEC 5/2/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
3.0	1.0	0.0	0.00	0.0	0.00
5.0	1.8	1.2	0.87	2.1	1.72
6.5	1.5	1.5	1.77	2.3	3.90
8.0	1.5	1.7	1.83	2.6	4.62
9.5	1.5	2.0	1.94	3.0	5.82
11.0	1.5	2.2	2.18	3.3	7.19
12.5	1.5	2.2	2.11	3.3	6.96
14.0	1.5	2.3	2.19	3.5	7.56
15.5	1.5	2.3	2.25	3.5	7.76
17.0	1.5	2.3	2.25	3.5	7.76
18.5	1.5	2.2	2.35	3.3	7.76
20.0	1.5	2.2	2.33	3.3	7.69
21.5	1.5	2.2	2.23	3.3	7.36
23.0	1.5	2.0	2.32	3.0	6.96
24.5	1.5	1.9	2.11	2.9	6.01
26.0	1.5	1.9	2.16	2.9	6.16
27.5	1.5	1.9	2.11	2.9	6.01
29.0	1.5	1.8	1.35	2.7	3.65
30.5	1.5	1.4	0.63	2.1	1.32
32.0	1.8	1.0	0.02	1.8	0.04
34.0	1.0	0.8	0.00	0.8	0.00

Total Flow: **106**

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~50°s F
Location: MER-002

Date: 5/5/08
Sampler(s): CEC/RRE
Sampling time: 1440

Odor: None
Appearance: Light brackish

Temperature (°C): 8.4
Spec. Cond. (µmhos/cm @ 25°C): 38
Conductivity (µmhos): 26
pH (SU): 5.7
D.O. (ppm): 9
ORP (mV): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=3.05' (5/2/08).

Flow Measurement RRE/CEC 5/2/08 ft/sec 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
6.5	1.3	0.9	0.02		1.1	0.02
9.0	2.3	1.7	0.19		3.8	0.73
11.0	2.0	2.2	0.14		4.4	0.62
13.0	2.0	2.5	0.22	0.57	5.0	1.98
15.0	2.0	2.7	0.17	0.74	5.4	2.46
17.0	2.0	2.7	0.48	0.87	5.4	3.65
19.0	2.0	2.8	0.71	1.29	5.6	5.60
21.0	2.0	2.7	1.00	1.68	5.4	7.24
23.0	2.0	2.7	1.16	1.87	5.4	8.18
25.0	2.0	2.8	1.54	1.87	5.6	9.55
27.0	2.0	2.5	1.72	1.87	5.0	8.98
29.0	2.0	2.4	1.60		4.8	7.68
31.0	2.0	2.3	1.81		4.6	8.33
33.0	2.0	2.2	1.86		4.4	8.18
35.0	2.0	2.2	1.66		4.4	7.30
37.0	2.0	2.0	1.55		4.0	6.20
39.0	2.0	2.1	1.07		4.2	4.49
41.0	2.0	2.1	1.04		4.2	4.37
43.0	2.0	2.3	0.95		4.6	4.37
45.0	2.0	2.4	0.83		4.8	3.98
47.0	2.0	2.5	0.72	0.94	5.0	4.15
49.0	2.0	2.7	0.48	0.54	5.4	2.75
51.0	2.0	2.9	0.33	0.69	5.8	2.96
53.0	1.5	2.6	0.11		3.9	0.43
54.0	0.5	2.2	0.00		1.1	0.00

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~50°s F
Location: MER-003

Date: 5/5/08
Sampler(s): CEC/RRE
Sampling time: 1520

Odor: None
Appearance: Slight tannin

Temperature (°C): 8.9
Spec. Cond. (µmhos/cm @ 25°C): 42
Conductivity (µmhos): 29
pH (SU): 5.7
D.O. (ppm): 9.8
ORP (mV): 134

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidit
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=2.27' (5/2/08). Additional measurement made at culvert through RR grade.

Meter units: ft/sec
Flow Measurement RRE/CEC 5/2/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
1.0	0.8	1.5	1.87	1.1	2.10
2.5	1.5	1.5	2.00	2.3	4.50
4.0	1.5	1.7	1.68	2.6	4.28
5.5	1.5	1.8	1.79	2.7	4.83
7.0	1.5	1.9	2.39	2.9	6.81
8.5	1.5	1.9	2.42	2.9	6.90
10.0	1.5	2.0	2.33	3.0	6.99
11.5	1.5	2.1	2.23	3.2	7.02
13.0	1.5	2.1	2.33	3.2	7.34
14.5	1.5	2.2	2.48	3.3	8.18
16.0	1.5	2.2	2.36	3.3	7.79
17.5	1.5	2.3	2.16	3.5	7.45
19.0	1.5	2.2	2.10	3.3	6.93
20.5	1.5	2.1	1.99	3.2	6.27
22.0	1.5	2.1	2.09	3.2	6.58
23.5	1.5	2.1	2.08	3.2	6.55
25.0	1.5	2.0	2.03	3.0	6.09
26.5	1.5	1.9	1.66	2.9	4.73
28.0	1.5	2.0	1.26	3.0	3.78
29.5	1.5	2.0	1.44	3.0	4.32
31.0	1.5	1.9	1.14	2.9	3.25
32.5	1.8	1.7	0.96	3.0	2.86
34.5	2.0	1.3	0.61	2.6	1.59
36.5	2.0	0.7	0.35	1.4	0.49
38.5	1.0	0.0	0.00	0.0	0.00

Flow: 128

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.2	0.4	1.31	0.1	0.10
0.4	0.4	0.5	2.55	0.2	0.45
0.7	0.3	0.5	2.65	0.2	0.40
1.0	0.3	0.5	2.35	0.2	0.35
1.3	0.2	0.3	1.41	0.0	0.06

Flow: 1.4

Total Flow: 129

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Location: WLD-001NW

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 1040

Odor: None
Appearance: Clear

Temperature (°C): 7.1
Spec. Cond. (µmhos/cm @ 25°C): 151
Conductivity (µmhos): 100
pH (SU): 7.0
D.O. (ppm): 6.4
ORP (mV): 115

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=1.63' (4/30/08).

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement RRE/CEC 4/30/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.3	0.2	0.0	0.00	0.00	0.00
0.6	0.3	0.2	0.31	0.06	0.02
0.9	0.3	0.1	0.51	0.03	0.02
1.2	0.3	0.1	0.00	0.03	0.00
1.5	0.2	0.0	0.00	0.00	0.00

Total flow: 0.03

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Location: WLD-001SE

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 1015

Odor: None
Appearance: Tan with a lot of organic material

Temperature (°C): 6.2
Spec. Cond. (µmhos/cm @ 25°C): 186
Conductivity (µmhos): 119
pH (SU): 6.7
D.O. (ppm): 2.8
ORP (mV): 105

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=0.81' (4/30/08). Flow estimated to be <0.05 cfs. Slight positive flow observed but velocities are less than flow meter's detection limit. Culvert half full of muck.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~50°s F
Location: WLD-001

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 1140

Odor: None
Appearance: Light tan with some organic debris

Temperature (°C): 8.0
Spec. Cond. (µmhos/cm @ 25°C): 210
Conductivity (µmhos): 142
pH (SU): 6.8
D.O. (ppm): 3.1
ORP (mV): -28

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~60°s F
Location: WLD-002

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 1245

Odor: None
Appearance: Slight tannin

Temperature (°C): 7.3
Spec. Cond. (µmhos/cm @ 25°C): 34
Conductivity (µmhos): 22
pH (SU): 5.8
D.O. (ppm): 7.9
ORP (mV): 100

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 6.7'. Sample depth = 1.34'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~40°s F
Location: WLD-003

Date: 5/6/08
Sampler(s): CLS/RRE
Sampling time: 1040

Odor: None
Appearance: Slight tannin

Temperature (°C): 9.9
Spec. Cond. (µmhos/cm @ 25°C): 41
Conductivity (µmhos): 29
pH (SU): 6.6
D.O. (ppm): 12.5
ORP (mV): 58

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 4.6'. Sample depth = 0.92'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~60°s F
Location: HMP-004

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 1445

Odor: None
Appearance: Tan with organic matter

Temperature (°C): 5.0
Spec. Cond. (µmhos/cm @ 25°C): 349
Conductivity (µmhos): 216
pH (SU): 6.6
D.O. (ppm): 1
ORP (mV): -77

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~50°s F
Location: HMP-005

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 1220

Odor: None
Appearance: Very slight yellow

Temperature (°C): 7.0
Spec. Cond. (µmhos/cm @ 25°C): 334
Conductivity (µmhos): 219
pH (SU): 6.6
D.O. (ppm): 5.0
ORP (mV): 5

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~60°s F
Location: HMP-006

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 1315

Odor: None
Appearance: Very slight tan with organic matter

Temperature (°C): 9.1
Spec. Cond. (µmhos/cm @ 25°C): 30
Conductivity (µmhos): 21
pH (SU): 5.9
D.O. (ppm): 10.9
ORP (mV): 167

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~60°s F
Location: HMP-007

Date: 5/6/08
Sampler(s): CEC/RRE
Sampling time: 1415

Odor: None
Appearance: Very slight tan

Temperature (°C): 10
Spec. Cond. (μmhos/cm @ 25°C): 269
Conductivity (μmhos): 192
pH (SU): 6.4
D.O. (ppm): 7.4
ORP (mV): 32

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~40°s F
Location: HMP-009

Date: 5/7/08
Sampler(s): RRE/CLS
Sampling time: 1300

Odor: None
Appearance: Clear

Temperature (°C): 5.9
Spec. Cond. (µmhos/cm @ 25°C): 464
Conductivity (µmhos): 295
pH (SU): 7.2
D.O. (ppm): 10.4
ORP (mV): -5

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 1.0'. Sample depth = 0.2'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Overcast, ~60°s F
Location: HTP-001

Date: 5/6/08
Sampler(s): RRE/CLS
Sampling time: 1615

Odor: None
Appearance: Clear

Temperature (°C): 14
Spec. Cond. (µmhos/cm @ 25°C): 85
Conductivity (µmhos): 66
pH (SU): 7.2
D.O. (ppm): 11
ORP (mV): 23

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 3.2'. Sample depth = 0.64'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~60°s F
Location: HTP-002

Date: 5/6/08
Sampler(s): RRE/CLS
Sampling time: 1430

Odor: None
Appearance: Clear

Temperature (°C): 9.5
Spec. Cond. (µmhos/cm @ 25°C): 87
Conductivity (µmhos): 61
pH (SU): 6.8
D.O. (ppm): 9.4
ORP (mV): 47

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 5.5'. Sample depth = 1.1'.
Masked duplicate (DUP-002) collected here.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, foggy, ~40°s F
Location: LKL-001

Date: 5/7/08
Sampler(s): RRE/CLS
Sampling time: 1045

Odor: None
Appearance: Clear

Temperature (°C): 8.0
Spec. Cond. (μmhos/cm @ 25°C): 64
Conductivity (μmhos): 43
pH (SU): 6.5
D.O. (ppm): 9.9
ORP (mV): 39

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
4	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 24'. Sample depth = 4.8'.
Masked duplicate (DUP-003) collected here. Lab MS/MSD collected here.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, foggy, ~40°s F
Location: LKL-002

Date: 5/7/08
Sampler(s): RRE/CLS
Sampling time: 1015

Odor: None
Appearance: Clear

Temperature (°C): 7.8
Spec. Cond. (μmhos/cm @ 25°C): 64
Conductivity (μmhos): 43
pH (SU): 6.5
D.O. (ppm): 9.7
ORP (mV): 27

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 30'. Sample depth = 6.0'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, rain, ~40°s F
Location: Weir 1

Date: 5/2/08
Sampler(s): RRE/CEC
Sampling time: No sample

Odor: NA
Appearance: NA

Temperature (°C): 5.7
Spec. Cond. (µmhos/cm @ 25°C): NA
Conductivity (µmhos): NA
pH (SU): NA
D.O. (ppm): NA
ORP (mV): NA

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: Yes (1)
Remarks: No sample required here. Weir diameter = 2.0'. Water depth = 1.32'.
Max velocity = 0.52 ft/s. Temp 5.7° C.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, heavy rain, ~40°s F
Location: Weir 2

Date: 5/2/08
Sampler(s): RRE/CEC
Sampling time: No sample

Odor: NA
Appearance: NA

Temperature (°C): 6.4
Spec. Cond. (µmhos/cm @ 25°C): NA
Conductivity (µmhos): NA
pH (SU): NA
D.O. (ppm): NA
ORP (mV): NA

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: Yes (1)
Remarks: No sample required here. Weir is elliptical: 1.3' x 3.0' (+/- 0.2'). Water depth = 1.30'.
Max velocity = 0.03 ft/s. Temp 6.4° C.

North Jackson Company
Field Sampling Report

Project Name: Humboldt Mill Site

Contact: North Jackson Company
1004 Harbor Hills Drive, Suite 102
Marquette, Michigan 49855
Phone (906) 225-6787

Summary of Monitoring Activities

Monitoring Date(s): 5/8/08, 5/9/08, 5/12/08, 5/16/08, 5/19/08, 5/20/08, 5/28/08

Activities:

Collected surface water samples from the pit at HPL-003 & HPL-004 (at depths of 3', 15', 60', 120' & 175').

Completed profiles at 3-ft intervals at HPL-001 through HPL-007.

Additional ferrous iron measurements made just above pit bottom at HPL-003 and HPL-004.

Collected masked duplicate and field blank samples.

DEQ representatives present for lab split of all pit samples.

Field Report Attachments

Field Analytical Data Summary	Yes
Quality Control Summary	Yes
Flow Measurement	No
Water Sampling Log	Yes
Chain of Custody Numbers	20080508

Laboratory Analysis

Pace - Metals, anions, cations, general chemistry

Sampler Name(s): Chris Cantway (CEC), Richard Eagle (RRE)

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)	Ferrous Iron (mg/L)
HPL-003 3'	5/8/08	6.7	501	7.6	10.6	165	NM
HPL-003 15'	5/8/08	5.9	502	7.7	10.6	162	NM
HPL-003 60'	5/8/08	4.4	527	7.5	9.1	164	NM
HPL-003 120'	5/8/08	5.2	673	7.3	0.4	172	<0.02
HPL-003 175'	5/8/08	4.9	738	7.6	<0.1	127	<0.02
HPL-003 183'	5/20/08	NM	NM	NM	NM	NM	<0.02
HPL-004 3'	5/8/08	6.0	503	7.7	10.6	175	NM
HPL-004 15'	5/8/08	6.0	504	7.7	10.7	181	NM
HPL-004 60'	5/8/08	4.6	527	7.4	8.9	186	NM
HPL-004 120'	5/8/08	5.2	678	7.5	0.6	180	<0.02
HPL-004 175'	5/8/08	5.0	737	7.6	<0.1	145	<0.02
HPL-004 186'	5/20/08	NM	NM	NM	NM	NM	<0.02

NM Not measured

North Jackson Company
Quality Control Sampling Summary

Project Name: Humboldt Mill Site

Sample ID	Sampling Date	Description
DUP-004	5/8/08	Masked duplicate (HPL-004 3')
FBK-004	5/8/08	Field blank

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~50°s F
Sample ID: HPL-003 3'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1340

Odor: None
Appearance: Clear

Temperature (°C): 6.7
Spec. Cond. (µmhos/cm @ 25°C): 501
Conductivity (µmhos): 326
pH (SU): 7.6
D.O. (ppm): 10.6
ORP (mV): 165
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	500 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: DEQ duplicate collected here.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~50°s F
Sample ID: HPL-003 15'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1420

Odor: None
Appearance: Clear

Temperature (°C): 5.9
Spec. Cond. (µmhos/cm @ 25°C): 502
Conductivity (µmhos): 319
pH (SU): 7.7
D.O. (ppm): 10.6
ORP (mV): 162
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	500 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~50°s F
Sample ID: HPL-003 60'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1445

Odor: None
Appearance: Clear

Temperature (°C): 4.4
Spec. Cond. (µmhos/cm @ 25°C): 527
Conductivity (µmhos): 320
pH (SU): 7.5
D.O. (ppm): 9.1
ORP (mV): 164
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Mostly cloudy, ~50°s F
Sample ID: HPL-003 120'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1515

Odor: None
Appearance: Clear

Temperature (°C): 5.2
Spec. Cond. (μmhos/cm @ 25°C): 673
Conductivity (μmhos): 418
pH (SU): 7.3
D.O. (ppm): 0.4
ORP (mV): 172
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Mostly cloudy, windy, ~50°s F
Sample ID: HPL-003 175'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1545

Odor: None
Appearance: Clear

Temperature (°C): 4.9
Spec. Cond. (µmhos/cm @ 25°C): 738
Conductivity (µmhos): 455
pH (SU): 7.6
D.O. (ppm): <0.1
ORP (mV): 127
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Ferrous iron at 183' depth was <0.02 mg/L on 5/20/08.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~30°s F
Sample ID: HPL-004 3'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 0900

Odor: None
Appearance: Clear

Temperature (°C): 6.0
Spec. Cond. (µmhos/cm @ 25°C): 503
Conductivity (µmhos): 320
pH (SU): 7.7
D.O. (ppm): 10.6
ORP (mV): 175
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-004) collected here.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~40°s F
Sample ID: HPL-004 15'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1000

Odor: None
Appearance: Clear

Temperature (°C): 6.0
Spec. Cond. (µmhos/cm @ 25°C): 504
Conductivity (µmhos): 320
pH (SU): 7.7
D.O. (ppm): 10.7
ORP (mV): 181
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~40°s F
Sample ID: HPL-004 60'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1030

Odor: None
Appearance: Clear

Temperature (°C): 4.6
Spec. Cond. (µmhos/cm @ 25°C): 527
Conductivity (µmhos): 322
pH (SU): 7.4
D.O. (ppm): 8.9
ORP (mV): 186
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~50°s F
Sample ID: HPL-004 120'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1100

Odor: None
Appearance: Clear

Temperature (°C): 5.2
Spec. Cond. (µmhos/cm @ 25°C): 678
Conductivity (µmhos): 421
pH (SU): 7.5
D.O. (ppm): 0.6
ORP (mV): 180
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~50°s F
Sample ID: HPL-004 175'

Date: 5/8/08
Sampler(s): CEC/RRE
Sampling time: 1130

Odor: None
Appearance: Clear

Temperature (°C): 5.0
Spec. Cond. (µmhos/cm @ 25°C): 737
Conductivity (µmhos): 456
pH (SU): 7.6
D.O. (ppm): <0.1
ORP (mV): 145
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Ferrous iron at 186' depth was <0.02 mg/L on 5/20/08.

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, breezy, ~60°s F
Location: HPL-001

Date: 5/16/08
Field Crew: CLS/CEC

Start time: 1345 **Finish time:** 1500
Remarks: Lower portion of DO profile measured on 5/28/08.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.0	10.1	502	175	10.9
3	7.9	8.7	502	175	11.0
6	7.9	8.5	502	175	11.0
9	7.9	8.2	502	175	11.0
12	7.9	8.2	502	175	11.0
15	7.8	7.0	504	177	10.9
18	7.8	6.5	505	178	10.9
21	7.8	6.4	505	178	10.8
24	7.8	6.0	506	179	10.7
27	7.7	5.8	506	179	10.7
30	7.7	5.5	508	180	10.5
33	7.7	5.2	508	180	10.5
36	7.7	4.9	509	181	10.3
39	7.6	4.5	511	181	10.4
42	7.6	4.3	514	182	10.0
45	7.6	4.1	516	183	9.8
48	7.6	4.0	519	183	9.7
51	7.5	3.8	523	184	9.4
54	7.5	3.7	525	184	9.4
57	7.5	3.6	526	185	9.2
60	7.5	3.6	528	185	9.1
63	7.5	3.6	530	185	8.9
66	7.5	3.6	531	186	8.8
69	7.5	3.6	534	187	8.7
72	7.5	3.6	535	187	8.5
75	7.5	3.6	537	187	8.4
78	7.4	3.6	538	188	8.2
81	7.4	3.6	541	188	8.0
84	7.4	3.6	545	189	7.6
87	7.4	3.6	547	189	7.2
90	7.4	3.7	553	190	6.7
93	7.4	3.7	556	190	6.3
96	7.3	3.7	561	191	5.9
99	7.3	3.8	564	191	5.7

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	3.8	572	192	5.2
105	7.3	4.0	617	192	3
108	7.3	4.1	636	192	2
111	7.3	4.2	650	192	1
114	7.3	4.2	657	192	0.8
117	7.3	4.3	662	192	0.4
120	7.3	4.3	665	191	0.3
123	7.3	4.3	670	191	0.2
126	7.3	4.3	676	190	0.3
129	7.3	4.4	680	190	0.3
132	7.3	4.4	690	190	0.2
135	7.3	4.5	698	189	0.1
138	7.4	4.5	707	187	0.1
141	7.4	4.6	722	185	0.1
144	7.5	4.6	726	183	<0.1
147	7.5	4.6	728	182	<0.1
150	7.5	4.6	731	180	<0.1
153	7.5	4.6	733	176	<0.1
156	7.5	4.7	737	171	<0.1
159	7.5	4.7	737	168	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~50°s F
Location: HPL-002

Date: 5/19/08
Field Crew: RRE/CLS

Start time: 0950 **Finish time:** 1241
Remarks: In tailings at 174' depth.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.0	9.3	500	164	10.7
3	8.0	9.3	500	167	10.7
6	8.0	9.2	500	162	10.7
9	8.0	9.1	500	161	10.7
12	8.0	8.9	501	160	10.8
15	7.9	7.8	502	162	10.9
18	7.8	6.8	504	163	10.9
21	7.8	6.6	504	163	10.8
24	7.7	6.3	505	164	10.7
27	7.8	6.0	506	164	10.6
30	7.7	5.7	506	165	10.5
33	7.7	5.3	508	165	10.4
36	7.7	5.1	509	166	10.3
39	7.7	4.7	510	167	10.2
42	7.6	4.3	513	167	10.0
45	7.6	4.0	516	168	9.8
48	7.6	3.9	519	169	9.5
51	7.6	3.8	523	170	9.3
54	7.5	3.7	526	170	9.1
57	7.6	3.7	527	170	9.1
60	7.5	3.6	529	171	9.0
63	7.5	3.6	529	172	8.8
66	7.5	3.6	531	172	8.8
69	7.5	3.6	531	173	8.6
72	7.5	3.6	533	174	8.5
75	7.5	3.6	534	174	8.4
78	7.5	3.6	536	175	8.2
81	7.5	3.6	537	175	8.1
84	7.5	3.6	539	176	7.9
87	7.4	3.6	546	177	7.2
90	7.4	3.7	550	179	6.7
93	7.4	3.7	558	180	6.1
96	7.4	3.8	565	182	5.2
99	7.3	3.8	575	183	4.5

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	3.9	589	184	3.5
105	7.3	4.0	614	186	2.5
108	7.3	4.1	630	186	1.2
111	7.3	4.2	645	186	0.7
114	7.3	4.3	660	186	0.4
117	7.3	4.3	666	186	0.3
120	7.3	4.3	671	186	0.3
123	7.3	4.3	676	185	0.2
126	7.3	4.4	680	185	0.2
129	7.4	4.4	686	184	0.2
132	7.4	4.4	689	183	0.1
135	7.4	4.5	697	182	0.1
138	7.4	4.5	701	182	0.1
141	7.4	4.5	710	181	0.1
144	7.4	4.5	715	180	0.1
147	7.5	4.6	724	178	0.1
150	7.5	4.6	728	172	0.1
153	7.5	4.6	731	169	0.1
156	7.5	4.6	732	167	0.1
159	7.5	4.6	733	165	0.1
162	7.5	4.7	735	161	0.1
165	7.5	4.7	735	158	0.1
168	7.5	4.7	735	155	0.1
171	7.5	4.7	736	152	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~50°s F
Location: HPL-003

Date: 5/12/08
Field Crew: CEC/RRE

Start time: 1110 **Finish time:** 1430
Remarks: Lower portion of DO profile measured on 5/28/08.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.8	6.4	503	166	10.9
3	7.8	6.3	502	165	10.9
6	7.8	6.3	502	164	10.9
9	7.8	6.2	503	163	10.8
12	7.8	6.2	503	162	10.8
15	7.8	6.1	503	162	10.8
18	7.7	5.5	504	162	10.7
21	7.7	5.5	504	162	10.6
24	7.7	5.2	505	162	10.6
27	7.7	5.1	505	162	10.5
30	7.7	5.0	506	162	10.4
33	7.7	4.7	507	162	10.4
36	7.6	4.5	508	162	10.3
39	7.6	4.3	509	162	10.1
42	7.6	4.2	511	162	10.0
45	7.6	4.0	514	163	9.9
48	7.6	4.0	515	163	9.7
51	7.6	3.9	517	163	9.6
54	7.6	3.9	518	163	9.5
57	7.5	3.7	524	164	9.3
60	7.5	3.6	525	164	9.1
63	7.5	3.6	528	165	8.9
66	7.5	3.6	530	166	8.7
69	7.5	3.5	530	166	8.7
72	7.5	3.5	532	166	8.6
75	7.5	3.5	533	167	8.5
78	7.4	3.5	534	167	8.3
81	7.4	3.6	536	168	8.1
84	7.4	3.6	539	168	7.8
87	7.4	3.6	543	169	7.4
90	7.4	3.7	552	170	6.4
93	7.3	3.7	560	171	5.7
96	7.3	3.8	564	171	5.3
99	7.3	3.8	574	172	4.5

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	3.9	590	173	3
105	7.2	4.1	619	173	3
108	7.2	4.1	633	174	2
111	7.2	4.2	647	174	2
114	7.2	4.2	652	173	1
117	7.3	4.3	658	173	0.6
120	7.3	4.3	662	172	0.4
123	7.3	4.4	682	171	0.2
126	7.3	4.4	683	170	0.1
129	7.3	4.4	688	169	<0.1
132	7.3	4.4	691	169	<0.1
135	7.3	4.5	698	168	<0.1
138	7.4	4.5	706	166	<0.1
141	7.4	4.5	706	166	<0.1
144	7.4	4.5	716	163	<0.1
147	7.4	4.6	721	160	<0.1
150	7.4	4.6	726	157	<0.1
153	7.4	4.6	728	155	<0.1
156	7.4	4.6	734	150	<0.1
159	7.4	4.7	736	144	<0.1
162	7.5	4.7	736	139	<0.1
165	7.5	4.7	738	137	<0.1
168	7.5	4.7	741	133	<0.1
171	7.5	4.7	740	128	<0.1
174	7.4	4.7	737	127	<0.1
177	7.4	4.7	739	125	<0.1
180	7.4	4.7	738	123	<0.1
183	7.4	4.7	740	120	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~50°s F
Location: HPL-004

Date: 5/9/08
Field Crew: CLS/CEC

Start time: 1145 **Finish time:** 1510
Remarks: Lower portion of DO profile measured on 5/28/08.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.8	6.9	503	168	10.8
3	7.7	6.0	503	175	10.8
6	7.7	5.7	504	178	10.8
9	7.7	5.7	504	179	10.8
12	7.7	5.6	504	180	10.8
15	7.7	5.6	504	181	10.8
18	7.7	5.4	504	181	10.7
21	7.7	5.3	504	181	10.7
24	7.7	5.1	505	181	10.6
27	7.7	5.0	505	182	10.6
30	7.7	4.8	506	182	10.5
33	7.7	4.6	508	183	10.4
36	7.6	4.4	510	183	10.3
39	7.6	4.4	509	183	10.2
42	7.6	4.2	511	183	10.2
45	7.6	4.0	514	184	10.0
48	7.6	3.8	518	185	9.8
51	7.6	3.8	519	185	9.6
54	7.5	3.6	524	186	9.4
57	7.5	3.5	527	186	9.3
60	7.5	3.5	528	186	9.2
63	7.5	3.5	532	187	8.9
66	7.5	3.5	533	187	8.7
69	7.5	3.5	533	188	8.6
72	7.4	3.5	535	188	8.4
75	7.4	3.5	536	188	8.4
78	7.4	3.6	537	188	8.0
81	7.4	3.6	540	189	7.8
84	7.4	3.6	540	189	7.6
87	7.4	3.6	542	189	7.5
90	7.4	3.6	547	189	7.0
93	7.4	3.7	551	190	6.7
96	7.3	3.7	558	189	5.9
99	7.3	3.8	575	189	4.3

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	3.9	578	189	4
105	7.2	4.1	615	187	3
108	7.2	4.2	645	185	2
111	7.2	4.2	650	184	1
114	7.3	4.3	666	182	1
117	7.3	4.4	674	181	1
120	7.3	4.4	678	180	0.6
123	7.3	4.4	684	178	0.3
126	7.3	4.4	688	177	0.2
129	7.3	4.4	692	177	0.1
132	7.3	4.5	696	175	<0.1
135	7.4	4.5	699	174	<0.1
138	7.4	4.5	701	173	<0.1
141	7.4	4.5	702	172	<0.1
144	7.4	4.5	705	170	<0.1
147	7.4	4.5	713	169	<0.1
150	7.4	4.5	715	167	<0.1
153	7.4	4.6	717	165	<0.1
156	7.4	4.6	724	163	<0.1
159	7.4	4.6	728	161	<0.1
162	7.5	4.6	731	158	<0.1
165	7.5	4.6	734	155	<0.1
168	7.5	4.6	734	152	<0.1
171	7.5	4.7	737	149	<0.1
174	7.5	4.7	738	145	<0.1
177	7.5	4.7	738	140	<0.1
180	7.5	4.7	740	135	<0.1
183	7.5	4.7	742	127	<0.1
186	7.5	4.7	742	117	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~50°s F
Location: HPL-005

Date: 5/19/08
Field Crew: RRE/CLS

Start time: 1340 **Finish time:** 1523
Remarks: In tailings at 180' depth.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.0	9.5	502	153	10.8
3	8.0	9.5	502	152	10.8
6	8.0	9.4	502	152	10.8
9	8.0	9.1	502	152	10.8
12	8.0	8.1	503	153	10.9
15	7.9	7.4	504	154	10.9
18	7.9	7.0	505	154	10.9
21	7.8	6.6	505	155	10.8
24	7.8	6.3	506	156	10.8
27	7.8	6.0	506	156	10.7
30	7.8	5.8	507	157	10.6
33	7.7	5.5	507	157	10.5
36	7.7	5.4	508	158	10.4
39	7.7	4.9	510	159	10.3
42	7.7	4.6	511	159	10.2
45	7.7	4.3	514	160	10.0
48	7.6	4.1	517	162	9.7
51	7.6	3.9	520	163	9.5
54	7.6	3.7	524	164	9.3
57	7.6	3.7	525	164	9.2
60	7.5	3.7	526	165	9.1
63	7.5	3.7	528	165	9.0
66	7.5	3.6	529	166	8.9
69	7.5	3.6	531	167	8.7
72	7.5	3.6	532	167	8.6
75	7.5	3.6	534	168	8.5
78	7.5	3.6	536	169	8.2
81	7.5	3.6	538	170	8.0
84	7.5	3.6	542	171	7.7
87	7.4	3.6	547	172	7.0
90	7.4	3.7	550	174	6.6
93	7.4	3.7	556	174	6.2
96	7.4	3.7	560	175	6.0
99	7.4	3.8	570	176	5.2

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	3.9	591	178	4.1
105	7.3	4.0	604	179	3.4
108	7.3	4.1	630	179	1.9
111	7.3	4.2	650	179	1
114	7.3	4.3	663	179	0.6
117	7.3	4.3	674	179	0.2
120	7.3	4.4	681	178	0.1
123	7.4	4.4	685	177	0.1
126	7.4	4.4	689	177	0.1
129	7.4	4.4	692	176	0.1
132	7.4	4.5	699	175	0.1
135	7.4	4.5	701	175	0.1
138	7.4	4.5	706	174	0.1
141	7.4	4.5	715	173	0.1
144	7.5	4.6	725	169	0.1
147	7.5	4.6	727	166	0.1
150	7.5	4.6	729	161	0.1
153	7.5	4.6	730	159	0.1
156	7.5	4.6	731	156	0.1
159	7.5	4.6	733	153	0.1
162	7.5	4.7	735	150	0.1
165	7.5	4.7	736	147	0.1
168	7.5	4.7	737	143	0.1
171	7.5	4.7	738	139	0.1
174	7.5	4.7	738	136	0.1
177	7.5	4.7	739	131	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~50°s F
Location: HPL-006

Date: 5/20/08
Field Crew: RRE/CLS

Start time: 1055 **Finish time:** 1210
Remarks:

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.0	9.7	502	165	10.7
3	8.0	9.7	502	165	10.7
6	8.0	9.6	502	164	10.7
9	8.0	9.5	502	164	10.7
12	7.9	8.4	503	165	10.8
15	7.9	8.3	503	164	10.8
18	7.9	7.1	504	165	10.9
21	7.8	6.6	505	165	10.8
24	7.8	6.3	505	165	10.8
27	7.8	6.1	506	165	10.7
30	7.8	5.9	506	165	10.6
33	7.7	5.7	507	165	10.6
36	7.7	5.3	509	166	10.4
39	7.7	4.8	510	166	10.3
42	7.7	4.4	513	167	10.1
45	7.6	4.2	514	167	9.9
48	7.6	4.0	517	168	9.7
51	7.6	3.9	521	168	9.5
54	7.6	3.7	526	169	9.2
57	7.5	3.7	528	169	9.0
60	7.5	3.6	529	170	8.9
63	7.5	3.6	530	170	8.8
66	7.5	3.6	532	170	8.6
69	7.5	3.6	534	171	8.5
72	7.5	3.6	535	171	8.4
75	7.5	3.6	536	172	8.2
78	7.5	3.6	540	172	7.9
81	7.4	3.6	543	173	7.5
84	7.4	3.6	547	173	7.2
87	7.4	3.7	550	174	6.8
90	7.4	3.7	555	174	6.4
93	7.4	3.7	558	175	6.1
96	7.4	3.7	561	175	5.8
99	7.4	3.8	565	176	5.4

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	3.8	576	176	4.6
105	7.3	4.0	600	177	4.3
108	7.3	4.0	617	177	2.7
111	7.3	4.1	628	177	1.8
114	7.3	4.2	646	177	1
117	7.3	4.2	659	177	0.6
120	7.3	4.3	671	177	0.2
123	7.3	4.3	675	176	0.2
126	7.3	4.4	680	176	0.1
129	7.3	4.4	689	175	0.1
132	7.4	4.4	694	174	0.1
135	7.4	4.5	699	174	0.1
138	7.4	4.5	701	173	0.1
141	7.4	4.5	705	173	0.1
144	7.4	4.5	708	172	0.1
147	7.4	4.5	712	172	0.1
150	7.4	4.6	723	170	0.1
153	7.5	4.6	725	169	0.1
156	7.5	4.6	727	168	0.1
159	7.5	4.6	730	166	0.1
162	7.5	4.6	732	162	0.1
165	7.5	4.7	736	160	0.1
168	7.5	4.7	737	157	0.1
171	7.5	4.7	737	154	0.1
174	7.5	4.7	738	151	0.1
177	7.5	4.7	738	148	0.1
180	7.5	4.7	739	145	0.1
183	7.5	4.7	739	143	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Clear, ~60°s F
Location: HPL-007

Date: 5/16/08
Field Crew: CLS/CEC

Start time: 1116 **Finish time:** 1255
Remarks: Charcoal grey water (tailings) at 177-183'. Lower portion of DO profile measured on 5/28/08.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	7.9	9.3	501	105	10.9
3	7.9	8.7	502	107	11.0
6	7.9	8.6	502	109	11.0
9	7.9	8.0	503	110	10.9
12	7.9	7.3	503	112	10.9
15	7.8	6.9	503	113	10.9
18	7.8	6.6	504	115	10.9
21	7.8	6.3	504	116	10.7
24	7.7	6.2	505	117	10.7
27	7.7	6.0	505	119	10.7
30	7.7	5.8	506	119	10.5
33	7.7	5.4	507	121	10.5
36	7.7	5.0	509	121	10.4
39	7.7	4.6	509	123	10.3
42	7.6	4.2	512	124	10.1
45	7.6	4.1	513	125	9.9
48	7.6	4.0	515	125	9.8
51	7.6	4.0	517	126	9.8
54	7.6	3.8	521	127	9.6
57	7.5	3.7	523	128	9.4
60	7.5	3.7	525	129	9.3
63	7.5	3.6	527	129	9.1
66	7.5	3.6	529	130	9.0
69	7.5	3.6	530	130	8.9
72	7.5	3.5	531	131	8.8
75	7.5	3.6	532	131	8.8
78	7.5	3.6	534	132	8.4
81	7.4	3.6	536	133	8.2
84	7.4	3.6	539	134	7.9
87	7.4	3.6	542	134	7.6
90	7.4	3.7	549	136	7.1
93	7.4	3.7	557	137	6.1
96	7.3	3.8	570	138	4.9
99	7.3	3.8	576	140	4.8

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	3.9	586	141	4
105	7.3	4.0	599	142	3
108	7.3	4.1	629	143	2
111	7.3	4.3	658	143	2
114	7.3	4.3	668	143	1
117	7.3	4.3	669	143	0.6
120	7.3	4.3	672	143	0.3
123	7.3	4.4	676	143	0.2
126	7.3	4.4	681	142	0.1
129	7.3	4.4	684	142	<0.1
132	7.3	4.5	698	142	<0.1
135	7.4	4.5	704	142	<0.1
138	7.4	4.5	708	141	<0.1
141	7.4	4.5	711	140	<0.1
144	7.4	4.6	717	140	<0.1
147	7.4	4.6	719	140	<0.1
150	7.4	4.6	721	139	<0.1
153	7.4	4.6	725	138	<0.1
156	7.5	4.6	728	137	<0.1
159	7.5	4.6	733	135	<0.1
162	7.5	4.7	735	132	<0.1
165	7.5	4.7	735	131	<0.1
168	7.5	4.7	736	130	<0.1
171	7.5	4.7	737	127	<0.1
174	7.5	4.7	738	125	<0.1
177	7.5	4.7	738	125	<0.1
180	7.5	4.7	738	122	<0.1
183	7.5	4.7	739	120	<0.1

July 2008

NORTH
JACKSON
COMPANY

1004 Harbor Hills Drive, Suite 102 • Marquette, Michigan • 906.225.6787

July 24, 2008

Mr. Stephen V. Donohue
2737 South Ridge Road
P.O. Box 19012
Green Bay, WI 54307

Re: Humboldt Mill Site July 2008 Surface Water Quality Sampling & Flow Monitoring Event

Dear Mr. Donohue:

Attached is the draft Humboldt Mill Site July 2008 Surface Water Quality Sampling & Flow Monitoring Field Report.

If you have any questions, please call.

Sincerely,

Kari Paulson

North Jackson Company
Surface Water Monitoring Report

Project Name: Humboldt Mill Site

Contact: North Jackson Company
1004 Harbor Hills Drive, Suite 102
Marquette, Michigan 49855
Phone (906) 225-6787

Summary of Monitoring Activities

Field Date(s): 7/1/08, 7/2/08,7/3/08, 7/7/08, 7/9/08

Activities: Collected surface water samples from EBR-001, MBR-001, WBR-001, WBR-002, WBR-003, MER-001, MER-002, MER-003, WLD-001NW, WLD-001SE, WLD-001, WLD-002, WLD-003, HMP-004, HMP-005, HMP-007, HMP-009, HTP-001, HTP-002, LKL-001 and LKL-002.

Unable to collect sample from HMP-006 due to insufficient water.

Measured flow at EBR-001, MBR-001, WBR-001, WBR-002, WBR-003, MER-001, MER-002, MER-003, WLD-001NW and WLD-001SE.

Collected flow data for Weir 1 & Weir 2.

Measured water levels at HMP locations on 7/15/08.

Collected masked duplicate and field blank samples.

Field Report Attachments

Field Analytical Data Summary	yes
Quality Control Summary	yes
Flow Measurement	yes
Water Sampling Log	yes
Chain of Custody Numbers	20080701, 20080702, 20080707, 20080709

Laboratory Analysis

Pace - Metals, anions, cations, general chemistry

Sampler Name(s): Chris Cantway (CEC), Richard Eagle (RRE), Curt Sheffield (CLS) and Chris Chamblee (CSC)

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)
EBR-001	7/2/08	19	98	6.7	3.3	112
MBR-001	7/2/08	19	119	6.0	7.1	94
WBR-001	7/2/08	19	87	5.1	2.9	150
WBR-002	7/2/08	23	144	6.8	6.8	26
WBR-003	7/2/08	19	154	6.4	2.6	14
MER-001	7/7/08	21	74	7.1	8.3	74
MER-002	7/7/08	21	86	7.1	8.3	54
MER-003	7/7/08	22	100	7.0	8.4	43
WLD-001NW	7/2/08	16	362	6.3	2.4	65
WLD-001SE	7/2/08	19	179	6.9	2.1	2
WLD-001	7/9/08	20	162	7.0	3.7	-32
WLD-002	7/1/08	20	31	6.2	5.1	213
WLD-003	7/1/08	21	38	6.5	6.9	209
HMP-004	7/9/08	16	270	6.8	3.0	86
HMP-005	7/9/08	12	381	6.6	2.6	-2
HMP-006	No Sample	i	i	i	i	i
HMP-007	7/9/08	16	396	7.1	0.1	-181
HMP-009	7/9/08	14	446	7.4	7.1	-55
HTP-001	7/1/08	22	104	8.5	9.5	100
HTP-002	7/7/08	23	92	7.5	7.5	152
LKL-001	7/7/08	22	59	7.9	8.7	92
LKL-002	7/7/08	22	59	7.9	8.7	102

i Insufficient water for collection of field parameters or sample.

North Jackson Company
Flow Measurement Summary

Project Name: Humboldt Mill Site

Location	Measurement Date	Flow (cfs)
EBR-001	7/2/08	<0.1
MBR-001	7/2/08	4.8
WBR-001	7/2/08	1.1
WBR-002	7/2/08	1.2
WBR-003	7/2/08	1.3
MER-001	7/3/08	49
MER-002	7/3/08	50
MER-003	7/3/08	50
WLD-001NW	7/2/08	0.001
WLD-001SE	7/2/08	<0.1

North Jackson Company
Water Level Summary

Project Name: Humboldt Mill Site

Location	Description of Measuring Point	Date	Measuring Point Elevation (ft MSL)	Water Level (ft)	Water Elevation (ft MSL)
HMP-004	Staff Gauge	7/15/08	1531.11	1.19	1532.30
HMP-005	Staff Gauge	7/15/08	1541.91	1.53	1543.44
HMP-006	Well Point	7/15/08	1752.52	4.39	1748.13
HMP-007	Staff Gauge	7/15/08	1571.17	3.34	1574.51
HMP-008*	Staff Gauge	7/15/08	1535.92	1.45	1537.37
HMP-009	Staff Gauge	7/15/08	1532.64	1.97	1534.61

Staff gauges were read directly.

*HMP-008 staff gauge was leaning at time of measurement. After being straightened it read 1.40'. Gauge was reinstalled and read 2.0'

North Jackson Company
Quality Control Sampling Summary

Project Name: Humboldt Mill Site

Sample ID	Sampling Date	Description
DUP-001	7/1/08	Masked duplicate (HTP-001)
DUP-002	7/2/08	Masked duplicate (MBR-001)
DUP-003	7/7/08	Masked duplicate (LKL-001)
DUP-005	7/9/08	Masked duplicate (HMP-009)
FBK-001	7/1/08	Field blank
FBK-002	7/2/08	Field blank
FBK-003	7/7/08	Field blank
FBK-005	7/9/08	Field blank

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~60°s F
Location: EBR-001

Date: 7/2/08
Sampler(s): RRE/CLS
Sampling time: 1040

Odor: None
Appearance: Tannin

Temperature (°C): 19
Spec. Cond. (µmhos/cm @ 25°C): 98
Conductivity (µmhos): 87
pH (SU): 6.7
D.O. (ppm): 3.3
ORP (mV): 112

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Slight positive flow observed but velocity is less than instrument detection limit. Estimated at <0.1 cfs.
Beaver dam downstream is slowing flow.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~60°s F
Location: MBR-001

Date: 7/2/08
Sampler(s): RRE/CLS
Sampling time: 0920

Odor: None
Appearance: Tannin

Temperature (°C): 19
Spec. Cond. (µmhos/cm @ 25°C): 119
Conductivity (µmhos): 106
pH (SU): 6.0
D.O. (ppm): 7.1
ORP (mV): 94

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=3.87' (7/2/08).
Masked duplicate (DUP-002) collected here.

Meter units: ft/sec

Flow Measurement RRE/CLS 7/2/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.5	0.9	0.20	0.5	0.09
1.0	1.0	0.9	0.21	0.9	0.19
2.0	1.0	0.8	0.34	0.8	0.27
3.0	0.8	0.9	0.40	0.7	0.27
3.5	0.5	0.9	0.43	0.5	0.19
4.0	0.5	1.0	0.44	0.5	0.22
4.5	0.5	1.1	0.52	0.5	0.26
4.9	0.3	1.1	0.55	0.3	0.18
5.1	0.3	1.3	0.65	0.4	0.25
5.5	0.4	1.3	0.90	0.5	0.47
5.9	0.4	1.4	0.68	0.6	0.38
6.3	0.4	1.3	0.64	0.5	0.33
6.7	0.4	1.3	0.60	0.5	0.31
7.1	0.4	1.3	0.55	0.5	0.29
7.5	0.5	1.2	0.49	0.5	0.26
8.0	0.5	1.1	0.47	0.6	0.26
8.5	0.5	1.1	0.51	0.6	0.28
9.0	0.8	0.8	0.40	0.6	0.24
10.0	1.0	0.6	0.08	0.6	0.05
11.0	1.0	0.3	0.08	0.3	0.02
12.0	0.5	0.0	0.00	0.0	0.00

Total flow: 4.8

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~60°s F
Location: WBR-001

Date: 7/2/08
Sampler(s): RRE/CLS
Sampling time: 1410

Odor: None
Appearance: Brackish

Temperature (°C): 19
Spec. Cond. (µmhos/cm @ 25°C): 87
Conductivity (µmhos): 77
pH (SU): 5.1
D.O. (ppm): 2.9
ORP (mV): 150

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=0.82' (7/2/08).
Beaver activity downstream likely due to amount of backwater at gauge.

Meter units: ft/sec

Flow Measurement RRE/CLS 7/2/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.3	0.3	1.0	0.10	0.30	0.03
0.9	0.5	1.1	0.18	0.55	0.10
1.3	0.5	1.2	0.16	0.54	0.09
1.8	0.5	1.2	0.24	0.54	0.13
2.2	0.4	1.2	0.27	0.48	0.13
2.6	0.4	1.3	0.22	0.52	0.11
3.0	0.4	1.3	0.21	0.52	0.11
3.4	0.4	1.2	0.24	0.48	0.12
3.8	0.4	1.1	0.23	0.44	0.10
4.2	0.4	2.1	0.22	0.84	0.18
4.6	0.4	0.5	0.09	0.20	0.02
5.0	0.2	0.3	0.02	0.06	0.00

Total flow: 1.1

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~70°s F
Location: WBR-002

Date: 7/2/08
Sampler(s): RRE/CLS
Sampling time: 1330

Odor: Tailings
Appearance: Brackish

Temperature (°C): 23
Spec. Cond. (µmhos/cm @ 25°C): 144
Conductivity (µmhos): 138
pH (SU): 6.8
D.O. (ppm): 6.8
ORP (mV): 26

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 2.65' (7/2/08).

Meter units: ft/sec

Flow Measurement RRE/CLS 7/2/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Stream Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.6	0.2	0.4	0.38	0.1	0.02
0.9	0.3	0.4	0.28	0.1	0.03
1.2	0.3	0.5	0.23	0.2	0.03
1.5	0.3	0.5	0.78	0.2	0.12
1.8	0.3	0.5	2.06	0.2	0.31
2.1	0.3	0.5	2.35	0.2	0.35
2.4	0.3	0.5	1.36	0.2	0.20
2.7	0.3	0.4	0.50	0.1	0.06
3.0	0.4	0.4	0.39	0.1	0.05
3.4	0.2	0.5	0.44	0.1	0.04

Total Flow: 1.2

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~60°s F
Location: WBR-003

Date: 7/2/08
Sampler(s): RRE/CLS
Sampling time: 1115

Odor: None
Appearance: Brackish

Temperature (°C): 19
Spec. Cond. (µmhos/cm @ 25°C): 154
Conductivity (µmhos): 137
pH (SU): 6.4
D.O. (ppm): 2.6
ORP (mV): 14

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 1.70' (7/2/08).

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement RRE/CLS 7/2/08

Distance from Initial Point (ft)	Width (ft)	Stream Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.5	0.3	0.4	0.00	0.1	0.00
1.0	0.6	0.8	0.04	0.4	0.02
1.6	0.5	1.1	0.14	0.6	0.08
2.0	0.4	1.1	0.59	0.4	0.23
2.3	0.3	1.1	0.53	0.3	0.17
2.6	0.3	1.1	0.40	0.3	0.13
2.9	0.3	1.1	0.29	0.3	0.10
3.2	0.4	1.1	0.14	0.4	0.05
3.6	0.4	1.1	-0.03	0.4	-0.01
4.0	0.4	1.1	-0.08	0.4	-0.04
4.4	0.4	1.1	0.02	0.4	0.01
4.7	0.3	1.1	0.22	0.3	0.07
5.0	0.3	1.1	0.27	0.3	0.09
5.3	0.3	1.1	0.35	0.3	0.12
5.6	0.3	1.1	0.25	0.3	0.08
5.9	0.4	1.0	0.35	0.4	0.12
6.3	0.4	1.0	0.18	0.4	0.06
6.6	0.7	0.9	0.04	0.6	0.02
7.6	0.5	0.0	0.00	0.0	0.00

Total Flow: 1.3

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~80°s F
Location: MER-001

Date: 7/7/08
Sampler(s): CLS/RRE
Sampling time: 1435

Odor: None
Appearance: Tannin

Temperature (°C): 21
Spec. Cond. (µmhos/cm @ 25°C): 74
Conductivity (µmhos): 69
pH (SU): 7.1
D.O. (ppm): 8.3
ORP (mV): 74

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 5.02' (7/3/08).

Meter units: ft/sec

Flow Measurement CEC/RRE 7/3/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.5	1.0	0.0	0.00	0.0	0.00
2.5	2.0	0.5	0.87	1.0	0.87
4.5	1.8	0.9	1.57	1.6	2.47
6.0	1.5	1.1	1.76	1.7	2.90
7.5	1.5	1.2	1.76	1.8	3.17
9.0	1.5	1.3	1.87	2.0	3.65
10.5	1.5	1.3	1.88	2.0	3.67
12.0	1.5	1.3	1.91	2.0	3.72
13.5	1.5	1.3	1.90	2.0	3.71
15.0	1.5	1.3	1.97	2.0	3.84
16.5	1.5	1.2	2.01	1.8	3.62
18.0	1.5	1.1	2.01	1.7	3.32
19.5	1.5	1.1	2.16	1.7	3.56
21.0	1.5	1.0	2.13	1.5	3.20
22.5	1.5	1.0	2.03	1.5	3.05
24.0	1.5	1.0	1.33	1.5	2.00
25.5	1.5	0.9	0.87	1.4	1.17
27.0	1.5	0.8	0.94	1.2	1.13
28.5	1.5	0.3	-0.08	0.5	-0.04
30.0	0.8	0.0	0.00	0.0	0.00

Total Flow: 49

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~80°s F
Location: MER-002

Date: 7/7/08
Sampler(s): RRE/CLS
Sampling time: 1515

Odor: None
Appearance: Tannin

Temperature (°C): 21
Spec. Cond. (µmhos/cm @ 25°C): 86
Conductivity (µmhos): 80
pH (SU): 7.1
D.O. (ppm): 8.3
ORP (mV): 54

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 2.36' (7/3/08).

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement CEC/RRE 7/3/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
1.0	1.5	0.2	0.00	0.3	0.00
4.0	3.0	1.1	-0.05	3.3	-0.17
7.0	2.5	1.6	0.05	4.0	0.20
9.0	2.0	1.8	0.06	3.6	0.22
11.0	2.0	1.8	0.17	3.6	0.61
13.0	2.0	1.7	0.25	3.4	0.85
15.0	2.0	1.7	0.29	3.4	0.99
17.0	2.0	1.7	0.46	3.4	1.56
19.0	2.0	1.8	0.72	3.6	2.59
21.0	2.0	1.5	0.93	3.0	2.79
23.0	2.0	1.5	1.07	3.0	3.21
25.0	2.0	1.4	1.19	2.8	3.33
27.0	2.0	1.4	1.35	2.8	3.78
29.0	2.0	1.3	1.54	2.6	4.00
31.0	2.0	1.2	1.33	2.4	3.19
33.0	2.0	1.2	1.49	2.4	3.58
35.0	2.0	1.2	1.26	2.4	3.02
37.0	2.0	1.4	1.20	2.8	3.36
39.0	2.0	1.5	1.38	3.0	4.14
41.0	2.0	1.6	0.98	3.2	3.14
43.0	2.0	1.8	0.75	3.6	2.70
45.0	2.0	1.8	0.95	3.6	3.42
47.0	1.0	1.3	-0.05	1.3	-0.07

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~80°s F
Location: MER-003

Date: 7/7/08
Sampler(s): RRE/CLS
Sampling time: 1540

Odor: None
Appearance: Tannin

Temperature (°C): 22
Spec. Cond. (µmhos/cm @ 25°C): 100
Conductivity (µmhos): 94
pH (SU): 7.0
D.O. (ppm): 8.4
ORP (mV): 43

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Lab MS/MSD collected here.
RP = 3.18' (7/3/08).

Meter units: ft/sec
Flow Measurement CEC/RRE 7/3/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.8	0.7	1.52	0.5	0.80
1.5	1.5	0.7	1.49	1.1	1.56
3.0	1.5	0.9	1.45	1.4	1.96
4.5	1.5	1.0	1.93	1.5	2.90
6.0	1.5	1.1	1.82	1.7	3.00
7.5	1.5	1.1	1.72	1.7	2.84
9.0	1.5	1.3	1.74	2.0	3.39
10.5	1.5	1.4	1.59	2.1	3.34
12.0	1.5	1.4	1.49	2.1	3.13
13.5	1.5	1.4	1.42	2.1	2.98
15.0	1.5	1.3	1.53	2.0	2.98
16.5	1.5	1.4	1.49	2.1	3.13
18.0	1.5	1.2	1.36	1.8	2.45
19.5	1.5	1.2	1.25	1.8	2.25
21.0	1.5	1.2	1.25	1.8	2.25
22.5	1.5	1.1	1.46	1.7	2.41
24.0	1.5	1.1	1.32	1.7	2.18
25.5	1.5	1.0	1.26	1.5	1.89
27.0	1.5	1.1	0.90	1.7	1.49
28.5	1.5	1.1	0.77	1.7	1.27
30.0	1.5	0.9	0.70	1.4	0.95
31.5	1.5	0.6	0.43	0.9	0.39
33.0	0.8	0.1	0.06	0.1	0.00

Total Flow: 50

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Location: WLD-001NW

Date: 7/2/08
Sampler(s): RRE/CLS
Sampling time: 1230

Odor: None
Appearance: Clear

Temperature (°C): 16
Spec. Cond. (µmhos/cm @ 25°C): 362
Conductivity (µmhos): 298
pH (SU): 6.3
D.O. (ppm): 2.4
ORP (mV): 65

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 1.68' (7/2/08).

Meter units: ft/sec

Flow Measurement RRE/CLS 7/2/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.4	0.2	0.0	0.00	0.00	0.000
0.7	0.3	0.1	0.04	0.03	0.001
1.0	0.2	0.0	0.00	0.00	0.000

Total flow: **0.001**

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Location: WLD-001SE

Date: 7/2/08
Sampler(s): RRE/CLS
Sampling time: 1200

Odor: None
Appearance: Brackish

Temperature (°C): 19
Spec. Cond. (µmhos/cm @ 25°C): 179
Conductivity (µmhos): 159
pH (SU): 6.9
D.O. (ppm): 2.1
ORP (mV): 2

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=0.79' (7/2/08). Positive flow observed but velocity is less than instrument detection limit.
Estimated < 0.1 cfs.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~70°s F
Location: WLD-001

Date: 7/9/08
Sampler(s): RRE/CLS
Sampling time: 1315

Odor: Fishy/swampy
Appearance: Yellowish

Temperature (°C): 20
Spec. Cond. (µmhos/cm @ 25°C): 162
Conductivity (µmhos): 147
pH (SU): 7.0
D.O. (ppm): 3.7
ORP (mV): -32

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Staff gauge = 1.63' (7/9/08).

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~80°s F
Location: WLD-002

Date: 7/1/08
Sampler(s): RRE/CLS
Sampling time: 1335

Odor: None
Appearance: Light brackish

Temperature (°C): 20
Spec. Cond. (μmhos/cm @ 25°C): 31
Conductivity (μmhos): 28
pH (SU): 6.2
D.O. (ppm): 5.1
ORP (mV): 213

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 7.1'. Sample depth = 1.42'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~80°s F
Location: WLD-003

Date: 7/1/08
Sampler(s): RRE/CLS
Sampling time: 1212

Odor: None
Appearance: Clear

Temperature (°C): 21
Spec. Cond. (µmhos/cm @ 25°C): 38
Conductivity (µmhos): 36
pH (SU): 6.5
D.O. (ppm): 6.9
ORP (mV): 209

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 5.0'. Sample depth = 1.0'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~60°s F
Location: HMP-004

Date: 7/9/08
Sampler(s): RRE/CLS
Sampling time: 1035

Odor: Swampy
Appearance: Light yellow

Temperature (°C): 16
Spec. Cond. (μmhos/cm @ 25°C): 270
Conductivity (μmhos): 225
pH (SU): 6.8
D.O. (ppm): 3.0
ORP (mV): 86

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Location: HMP-005

Date: 7/9/08
Sampler(s): RRE/CLS
Sampling time: 1415

Odor: Swampy
Appearance: Clear

Temperature (°C): 12
Spec. Cond. (µmhos/cm @ 25°C): 381
Conductivity (µmhos): 285
pH (SU): 6.6
D.O. (ppm): 2.6
ORP (mV): -2

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 1.0'. Sample depth = 0.20'.
Staff gauge = 2.52' (7/9/08).

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, windy, ~60°s F
Location: HMP-006

Date: No Sample
Sampler(s): CLS/CSC
Sampling time: NA

Odor: NA
Appearance: NA

Temperature (°C): i
Spec. Cond. (µmhos/cm @ 25°C): i
Conductivity (µmhos): i
pH (SU): i
D.O. (ppm): i
ORP (mV): i

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Insufficient water for collection of field parameters or sample.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Location: HMP-007

Date: 7/9/08
Sampler(s): RRE/CLS
Sampling time: 1345

Odor: Swampy, hydrogen sulfide
Appearance: Brownish tan

Temperature (°C): 16
Spec. Cond. (µmhos/cm @ 25°C): 396
Conductivity (µmhos): 326
pH (SU): 7.1
D.O. (ppm): 0.1
ORP (mV): -181

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Staff gauge = 3.63 (7/9/03).

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Partly coudy, ~60°s F
Location: HMP-009

Date: 7/9/08
Sampler(s): RRE/CLS
Sampling time: 1145

Odor: None
Appearance: Clear

Temperature (°C): 14
Spec. Cond. (µmhos/cm @ 25°C): 446
Conductivity (µmhos): 371
pH (SU): 7.4
D.O. (ppm): 7.1
ORP (mV): -55

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 2.01'. Sample depth = .40'. Staff guage = 2.01' (7/9/08).
Masked duplicate (DUP-005) collected here.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~80°s F
Location: HTP-001

Date: 7/1/08
Sampler(s): RRE/CLS
Sampling time: 1545

Odor: None
Appearance: Clear

Temperature (°C): 22
Spec. Cond. (µmhos/cm @ 25°C): 104
Conductivity (µmhos): 98
pH (SU): 8.5
D.O. (ppm): 9.5
ORP (mV): 100

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 3.8'. Sample depth = 0.76'.
Masked duplicate (DUP-001) collected here.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~60°s F
Location: HTP-002

Date: 7/7/08
Sampler(s): RRE/CLS
Sampling time: 0950

Odor: None
Appearance: Clear

Temperature (°C): 23
Spec. Cond. (µmhos/cm @ 25°C): 92
Conductivity (µmhos): 88
pH (SU): 7.5
D.O. (ppm): 7.5
ORP (mV): 152

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 6.0'. Sample depth = 1.2'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~80°s F
Location: LKL-001

Date: 7/7/08
Sampler(s): RRE/CLS
Sampling time: 1225

Odor: None
Appearance: Clear

Temperature (°C): 22
Spec. Cond. (µmhos/cm @ 25°C): 59
Conductivity (µmhos): 56
pH (SU): 7.9
D.O. (ppm): 8.7
ORP (mV): 92

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 26'. Sample depth = 5.2'.
Masked duplicate (DUP-003) collected here.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Location: LKL-002

Date: 7/7/08
Sampler(s): RRE/CLS
Sampling time: 1135

Odor: None
Appearance: Clear

Temperature (°C): 22
Spec. Cond. (µmhos/cm @ 25°C): 59
Conductivity (µmhos): 56
pH (SU): 7.9
D.O. (ppm): 8.7
ORP (mV): 102

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 29'. Sample depth = 5.8'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, rain, ~60°s F
Location: Weir 1

Date: 7/10/08
Sampler(s): RRE/CLS
Sampling time: No sample

Odor: NA
Appearance: NA

Temperature (°C): 19
Spec. Cond. (µmhos/cm @ 25°C): NA
Conductivity (µmhos): NA
pH (SU): NA
D.O. (ppm): NA
ORP (mV): NA

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: No sample required here. Weir diameter = 2.0'. Water depth = 1.35'.
Max velocity = 0.64 ft/s. Temp 18.9° C. Heavy rain before measurement (~0.5").

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, rain, ~60°s F
Location: Weir 2

Date: 7/10/08
Sampler(s): RRE/CLS
Sampling time: No sample

Odor: NA
Appearance: NA

Temperature (°C): 19
Spec. Cond. (µmhos/cm @ 25°C): NA
Conductivity (µmhos): NA
pH (SU): NA
D.O. (ppm): NA
ORP (mV): NA

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None

Remarks: No sample required here. Weir is elliptical: 1.3' x 3.0' (+/- 0.2'). Water depth = 1.11'.
Max velocity = 0 ft/s (no flow). Temp 18.6° C. Heavy rain before measurement (~0.5").

NORTH
JACKSON
COMPANY

1004 Harbor Hills Drive, Suite 102 ▪ Marquette, Michigan ▪ 906.225.6787

July 24, 2008

Mr. Stephen V. Donohue
2737 South Ridge Road
P.O. Box 19012
Green Bay, WI 54307

Confidential and Privileged
Attorney Client Work Product and/or
Attorney-Client Communication
Prepared in Anticipation of Litigation

Re: Humboldt Mill Site July 2008 Pit Water Quality Sampling & Profiling Monitoring Event

Dear Mr. Donohue:

Attached is the draft Humboldt Mill Site July 2008 Pit Water Quality Sampling & Profiling Monitoring Field Report.

If you have any questions, please call.

Sincerely,

Kari Paulson

North Jackson Company
Field Sampling Report

Project Name: Humboldt Mill Site

Contact: North Jackson Company
1004 Harbor Hills Drive, Suite 102
Marquette, Michigan 49855
Phone (906) 225-6787

Summary of Monitoring Activities

Field Date(s): 7/8/08, 7/9/08, 7/10/08, 7/15/08

Activities: Collected surface water samples from the pit at HPL-003 & HPL-004 (at depths of 3', 15', 60', 120' & 175').

Completed profiles at 3-ft interval at HPL-001 through HPL-007.

Additional ferrous iron measurements made just above pit bottom at HPL-003 and HPL-004.

Collected masked duplicate and field blank samples.

Field Report Attachments

Field Analytical Data Summary	Yes
Quality Control Summary	Yes
Flow Measurement	No
Water Sampling Log	Yes
Chain of Custody Numbers	20080708

Laboratory Analysis

Pace - Metals, anions, cations, general chemistry

Sampler Name(s): Richard Eagle (RRE) and Curt Sheffield (CLS)

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)	Ferrous Iron (mg/L)
HPL-003 3'	7/8/08	22	435	8.3	8.7	82	NM
HPL-003 15'	7/8/08	17	433	8.0	9.1	105	NM
HPL-003 60'	7/8/08	3.8	462	7.4	9.4	128	NM
HPL-003 120'	7/8/08	4.3	583	7.2	<0.1	130	<0.02
HPL-003 175'	7/8/08	4.7	642	7.4	<0.1	119	<0.02
HPL-003 183'	7/8/08	NM	NM	NM	NM	NM	<0.02
HPL-004 3'	7/8/08	22	436	8.3	8.6	139	NM
HPL-004 15'	7/8/08	16	432	8.0	9.7	143	NM
HPL-004 60'	7/8/08	3.7	463	7.4	8.3	161	NM
HPL-004 120'	7/8/08	4.3	580	7.2	<0.1	159	0.5
HPL-004 175'	7/8/08	4.7	642	7.4	<0.1	152	0.4
HPL-004 186'	7/8/08	NM	NM	NM	NM	NM	<0.02

NM Not measured

North Jackson Company
Quality Control Sampling Summary

Project Name: Humboldt Mill Site

Sample ID	Sampling Date	Description
DUP-004	7/8/08	Masked duplicate (HPL-003 175')
FBK-004	7/8/08	Field blank

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly sunny, ~70°s F
Sample ID: HPL-003 3'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1145

Odor: None
Appearance: Clear

Temperature (°C): 22
Spec. Cond. (µmhos/cm @ 25°C): 435
Conductivity (µmhos): 408
pH (SU): 8.3
D.O. (ppm): 8.7
ORP (mV): 82
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	500 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly sunny, ~70°s F
Sample ID: HPL-003 15'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1215

Odor: None
Appearance: Clear

Temperature (°C): 17
Spec. Cond. (µmhos/cm @ 25°C): 433
Conductivity (µmhos): 363
pH (SU): 8.0
D.O. (ppm): 9.1
ORP (mV): 105
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	500 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly sunny, ~70°s F
Sample ID: HPL-003 60'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1230

Odor: None
Appearance: Clear

Temperature (°C): 3.8
Spec. Cond. (μmhos/cm @ 25°C): 462
Conductivity (μmhos): 275
pH (SU): 7.4
D.O. (ppm): 9.4
ORP (mV): 128
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly sunny, ~70°s F
Sample ID: HPL-003 120'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1245

Odor: None
Appearance: Clear

Temperature (°C): 4.3
Spec. Cond. (µmhos/cm @ 25°C): 583
Conductivity (µmhos): 352
pH (SU): 7.2
D.O. (ppm): <0.1
ORP (mV): 130
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly sunny, ~70°s F
Sample ID: HPL-003 175'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1310

Odor: None
Appearance: Clear

Temperature (°C): 4.7
Spec. Cond. (µmhos/cm @ 25°C): 642
Conductivity (µmhos): 393
pH (SU): 7.4
D.O. (ppm): <0.1
ORP (mV): 119
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-004) collected here.
Ferrous iron at 183' depth was <0.02 mg/L on 7/8/08.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Sample ID: HPL-004 3'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1445

Odor: None
Appearance: Clear

Temperature (°C): 22
Spec. Cond. (µmhos/cm @ 25°C): 436
Conductivity (µmhos): 412
pH (SU): 8.3
D.O. (ppm): 8.6
ORP (mV): 139
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Sample ID: HPL-004 15'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1500

Odor: None
Appearance: Clear

Temperature (°C): 16
Spec. Cond. (μmhos/cm @ 25°C): 432
Conductivity (μmhos): 360
pH (SU): 8.0
D.O. (ppm): 9.7
ORP (mV): 143
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy ~70°s F
Sample ID: HPL-004 60'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1515

Odor: None
Appearance: Clear

Temperature (°C): 3.7
Spec. Cond. (µmhos/cm @ 25°C): 463
Conductivity (µmhos): 275
pH (SU): 7.4
D.O. (ppm): 8.3
ORP (mV): 161
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Lab MS/MSD collected here.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Sample ID: HPL-004 120'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1535

Odor: None
Appearance: Clear

Temperature (°C): 4.3
Spec. Cond. (µmhos/cm @ 25°C): 580
Conductivity (µmhos): 350
pH (SU): 7.2
D.O. (ppm): <0.1
ORP (mV): 159
Ferrous Iron (mg/L): 0.5

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks:

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Sample ID: HPL-004 175'

Date: 7/8/08
Sampler(s): CLS/RRE
Sampling time: 1605

Odor: None
Appearance: Clear

Temperature (°C): 4.7
Spec. Cond. (µmhos/cm @ 25°C): 642
Conductivity (µmhos): 393
pH (SU): 7.4
D.O. (ppm): <0.1
ORP (mV): 152
Ferrous Iron (mg/L): 0.4

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Ferrous iron at 186' depth was <0.02 mg/L on 7/8/08.

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~70°s F
Location: HPL-001

Date: 7/9/08
Field Crew: CSC/CLS

Start time: 1510 **Finish time:** 1640
Remarks: Tailings encountered at 159'.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.3	22.0	433	58	8.6
3	8.3	21.6	433	67	8.7
6	8.3	21.4	433	72	8.7
9	8.2	21.2	434	76	8.6
12	8.2	20.5	433	80	8.9
15	8.1	17.4	430	88	9.3
18	7.9	12.9	433	96	10.0
21	7.8	10.3	436	102	10.1
24	7.7	7.9	440	105	10.4
27	7.7	7.0	441	107	10.5
30	7.7	6.2	441	109	10.2
33	7.6	5.6	443	111	10.0
36	7.6	5.0	446	113	9.8
39	7.6	4.7	449	114	9.6
42	7.5	4.5	450	117	9.4
45	7.5	4.3	453	118	9.2
48	7.5	4.1	455	120	9.0
51	7.5	4.0	457	121	8.8
54	7.5	3.9	458	122	8.7
57	7.5	3.8	460	123	8.6
60	7.4	3.7	463	123	8.3
63	7.4	3.7	464	125	8.3
66	7.4	3.7	466	125	8.1
69	7.4	3.7	467	126	8.0
72	7.4	3.8	468	127	7.9
75	7.4	3.8	469	128	7.8
78	7.4	3.7	471	128	7.5
81	7.3	3.7	475	129	7.2
84	7.3	3.7	478	130	6.6
87	7.3	3.7	482	130	6.1
90	7.3	3.8	486	131	5.5
93	7.3	3.8	491	132	5.0
96	7.3	3.8	499	133	4.2
99	7.3	3.9	516	133	3.3

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.0	530	134	2.1
105	7.2	4.1	543	134	1.4
108	7.2	4.1	552	134	0.8
111	7.2	4.2	563	134	0.3
114	7.2	4.2	567	134	0.2
117	7.2	4.2	575	134	0.2
120	7.2	4.3	580	134	0.2
123	7.3	4.3	587	134	0.1
126	7.3	4.4	595	133	0.1
129	7.3	4.4	600	133	0.1
132	7.3	4.4	608	132	0.1
135	7.3	4.5	613	132	0.1
138	7.3	4.5	617	132	0.1
141	7.4	4.5	620	131	0.1
144	7.4	4.5	622	131	0.1
147	7.4	4.5	625	130	0.1
150	7.4	4.6	629	129	0.1
153	7.4	4.6	630	129	0.1
156	7.4	4.6	631	128	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~60°s F
Location: HPL-002

Date: 7/10/08
Field Crew: CLS/RRE

Start time: 1220 **Finish time:** 1320
Remarks:

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.3	21.2	436	96	8.6
3	8.3	21.1	436	96	8.6
6	8.3	21.1	436	96	8.6
9	8.2	20.1	436	100	8.7
12	8.1	18.7	433	106	9.0
15	8.0	17.5	432	107	9.3
18	8.0	13.5	438	111	9.9
21	7.9	10.0	438	117	10.2
24	7.8	8.0	442	120	10.4
27	7.8	7.0	442	121	10.4
30	7.7	6.2	443	122	10.3
33	7.7	5.7	445	123	10.2
36	7.7	5.3	445	124	10.0
39	7.6	4.8	448	125	9.8
42	7.6	4.5	450	126	9.6
45	7.6	4.3	453	127	9.4
48	7.6	4.2	455	128	9.1
51	7.5	4.0	457	129	8.9
54	7.5	3.9	459	130	8.8
57	7.5	3.8	461	131	8.5
60	7.5	3.7	462	131	8.4
63	7.5	3.7	463	131	8.4
66	7.4	3.7	465	132	8.2
69	7.4	3.7	467	132	8.1
72	7.4	3.6	469	133	7.9
75	7.4	3.6	471	133	7.6
78	7.4	3.7	474	134	7.0
81	7.4	3.7	478	135	6.5
84	7.3	3.7	481	136	6.2
87	7.3	3.7	484	136	5.7
90	7.3	3.8	487	137	5.4
93	7.3	3.8	492	137	4.9
96	7.3	3.8	499	138	4.2
99	7.3	3.9	516	138	3.1

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.0	526	139	2.4
105	7.2	4.0	539	139	1.6
108	7.2	4.1	549	139	1.0
111	7.2	4.2	559	139	0.8
114	7.2	4.2	567	139	0.3
117	7.2	4.2	575	139	<0.1
120	7.2	4.3	582	138	<0.1
123	7.2	4.3	583	138	<0.1
126	7.3	4.3	589	138	<0.1
129	7.3	4.4	596	138	<0.1
132	7.3	4.4	603	137	<0.1
135	7.3	4.4	606	137	<0.1
138	7.3	4.5	611	137	<0.1
141	7.3	4.5	618	136	<0.1
144	7.3	4.5	623	136	<0.1
147	7.3	4.6	627	135	<0.1
150	7.4	4.6	636	134	<0.1
153	7.4	4.6	636	132	<0.1
156	7.4	4.6	639	131	<0.1
159	7.4	4.7	640	130	<0.1
162	7.4	4.7	640	130	<0.1
165	7.4	4.7	641	129	<0.1
168	7.4	4.7	641	128	<0.1
171	7.5	4.7	641	128	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Partly sunny
Location: HPL-003

Date: 7/8/08
Field Crew: RRE/CLS

Start time: 0950 **Finish time:** 1131
Remarks:

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.3	21.8	435	65	8.3
3	8.2	21.6	434	102	8.6
6	8.2	21.4	434	103	8.6
9	8.2	20.7	434	103	8.7
12	8.2	20.0	433	104	8.8
15	8.1	17.6	432	107	9.2
18	8.0	12.5	434	113	10.1
21	7.8	9.6	440	115	10.3
24	7.7	8.1	441	117	10.5
27	7.7	7.0	441	117	10.5
30	7.7	6.0	442	119	10.0
33	7.6	5.6	445	119	10.0
36	7.6	5.1	446	120	9.9
39	7.6	4.8	447	121	9.9
42	7.5	4.4	450	122	9.4
45	7.5	4.3	452	123	9.3
48	7.5	4.2	454	123	9.2
51	7.5	4.0	457	124	9.0
54	7.5	3.9	459	124	8.8
57	7.5	3.8	461	125	8.6
60	7.4	3.8	462	126	8.3
63	7.4	3.7	464	126	8.3
66	7.4	3.7	465	127	8.2
69	7.4	3.7	466	127	8.0
72	7.4	3.6	468	128	7.9
75	7.4	3.6	470	128	7.7
78	7.4	3.7	472	128	7.5
81	7.4	3.7	475	129	7.4
84	7.3	3.7	478	130	6.4
87	7.3	3.7	482	130	6.1
90	7.3	3.8	488	131	5.5
93	7.3	3.8	493	131	5.0
96	7.3	3.9	502	132	4.3
99	7.2	3.9	515	132	3.3

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.0	527	132	2.6
105	7.2	4.1	542	133	1.7
108	7.2	4.1	543	132	1.2
111	7.2	4.2	558	133	0.6
114	7.2	4.2	571	133	<0.1
117	7.2	4.3	578	132	<0.1
120	7.2	4.3	582	132	<0.1
123	7.2	4.3	587	132	<0.1
126	7.2	4.3	591	132	<0.1
129	7.2	4.4	597	132	<0.1
132	7.3	4.4	601	131	<0.1
135	7.3	4.5	610	130	<0.1
138	7.3	4.5	619	130	<0.1
141	7.3	4.5	625	128	<0.1
144	7.4	4.6	627	127	<0.1
147	7.4	4.6	630	127	<0.1
150	7.4	4.6	632	127	<0.1
153	7.4	4.6	634	125	<0.1
156	7.4	4.6	636	124	<0.1
159	7.4	4.6	638	123	<0.1
162	7.4	4.6	640	122	<0.1
165	7.4	4.7	641	121	<0.1
168	7.4	4.7	641	121	<0.1
171	7.4	4.7	642	120	<0.1
174	7.4	4.7	642	119	<0.1
177	7.4	4.7	642	118	<0.1
180	7.4	4.7	643	118	<0.1
183	7.4	4.7	642	117	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, clear, slight breeze, ~60°s F
Location: HPL-004

Date: 7/15/08
Field Crew: CLS/CSC

Start time: 0937 **Finish time:** 1115
Remarks:

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.3	19.9	438	129	8.6
3	8.3	19.9	438	128	8.7
6	8.3	19.9	438	128	8.8
9	8.3	19.9	438	128	8.9
12	8.3	19.8	438	129	9.0
15	8.3	19.5	438	129	9.1
18	8.2	12.7	441	138	10.7
21	7.9	10.0	445	144	11.0
24	7.8	8.3	445	147	11.1
27	7.7	7.4	447	150	11.2
30	7.7	6.6	446	151	11.2
33	7.6	5.6	449	153	11.0
36	7.6	5.2	451	154	10.8
39	7.6	4.9	452	155	10.8
42	7.6	4.7	454	157	10.6
45	7.5	4.4	456	158	10.2
48	7.5	4.2	459	159	10.0
51	7.5	4.0	461	160	9.7
54	7.4	3.9	464	161	9.7
57	7.4	3.8	466	161	9.4
60	7.4	3.7	467	162	9.4
63	7.4	3.6	470	162	9.3
66	7.4	3.6	471	163	9.2
69	7.4	3.7	472	163	8.7
72	7.4	3.7	474	164	8.3
75	7.4	3.7	477	164	8.0
78	7.3	3.7	478	165	7.7
81	7.3	3.7	483	165	7.2
84	7.3	3.7	487	166	6.8
87	7.3	3.7	491	167	6.2
90	7.3	3.8	495	167	5.8
93	7.2	3.8	501	168	5.4
96	7.2	3.9	510	169	4.9
99	7.2	3.9	524	169	4.0

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.0	534	170	3.2
105	7.2	4.1	548	170	2.3
108	7.2	4.1	559	170	1.7
111	7.2	4.2	567	170	1.4
114	7.2	4.2	575	170	1.1
117	7.2	4.2	581	169	0.2
120	7.2	4.3	586	169	0.2
123	7.2	4.3	590	169	<0.1
126	7.2	4.3	597	169	<0.1
129	7.2	4.4	606	168	<0.1
132	7.2	4.4	612	168	<0.1
135	7.3	4.5	616	167	<0.1
138	7.3	4.5	620	167	<0.1
141	7.3	4.5	624	166	<0.1
144	7.3	4.5	629	165	<0.1
147	7.3	4.6	634	164	<0.1
150	7.3	4.6	637	164	<0.1
153	7.3	4.6	641	163	<0.1
156	7.4	4.6	643	161	<0.1
159	7.4	4.6	646	159	<0.1
162	7.4	4.6	647	157	<0.1
165	7.4	4.7	647	157	<0.1
168	7.4	4.7	648	155	<0.1
171	7.4	4.7	648	155	<0.1
174	7.4	4.7	649	154	<0.1
177	7.4	4.7	648	152	<0.1
180	7.4	4.7	648	152	<0.1
183	7.4	4.7	648	151	<0.1
186	7.4	4.7	650	147	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, clear, windy, ~70°s F
Location: HPL-005

Date: 7/15/08
Field Crew: CLS/CSC

Start time: 1130 **Finish time:** 1255
Remarks:

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.3	20.4	439	116	8.0
3	8.3	20.3	439	116	8.0
6	8.3	20.2	439	120	8.6
9	8.3	20.0	439	120	8.6
12	8.3	19.9	439	122	8.6
15	8.3	19.4	438	124	8.6
18	8.2	13.8	441	132	9.5
21	8.0	10.3	443	139	10.2
24	7.8	8.7	444	143	10.3
27	7.8	7.4	447	145	10.4
30	7.7	6.9	447	149	10.3
33	7.7	6.5	446	150	10.3
36	7.7	5.7	449	151	10.3
39	7.6	5.2	451	152	10.1
42	7.6	4.9	453	153	10.0
45	7.6	4.5	455	154	9.8
48	7.6	4.2	458	156	9.6
51	7.5	4.1	461	156	9.6
54	7.5	3.9	463	157	9.1
57	7.5	3.8	465	158	8.9
60	7.5	3.8	467	159	8.8
63	7.4	3.7	468	160	8.7
66	7.4	3.7	470	160	8.4
69	7.4	3.7	472	161	8.2
72	7.4	3.7	474	162	8.0
75	7.4	3.7	475	162	7.9
78	7.4	3.7	477	163	7.7
81	7.4	3.7	480	163	7.6
84	7.3	3.7	484	164	6.8
87	7.3	3.7	490	165	6.3
90	7.3	3.8	494	166	5.8
93	7.3	3.8	498	166	5.5
96	7.3	3.9	506	167	5.3
99	7.2	3.9	519	168	4.0

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.0	528	168	3.2
105	7.2	4.0	541	169	2.7
108	7.2	4.1	556	168	1.1
111	7.2	4.2	570	168	1
114	7.2	4.2	577	168	0.3
117	7.2	4.3	582	168	0.1
120	7.2	4.3	590	167	0.1
123	7.2	4.3	595	167	0.1
126	7.2	4.4	601	167	0.1
129	7.2	4.4	609	166	0.1
132	7.2	4.4	614	166	0.1
135	7.3	4.5	618	165	0.1
138	7.3	4.5	626	165	0.1
141	7.3	4.5	631	164	0.1
144	7.3	4.6	635	163	0.1
147	7.3	4.6	641	162	0.1
150	7.4	4.6	644	161	0.1
153	7.4	4.6	645	159	0.1
156	7.4	4.6	646	158	0.1
159	7.4	4.6	647	158	0.1
162	7.4	4.7	647	156	0.1
165	7.4	4.7	647	156	0.1
168	7.4	4.7	648	155	0.1
171	7.4	4.7	648	154	0.1
174	7.4	4.7	648	153	<0.1
177	7.4	4.7	649	152	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~70°s F
Location: HPL-006

Date: 7/15/08
Field Crew: CSC/CLS

Start time: 1320 **Finish time:** 1450
Remarks: Tailings and mud encountered at 174-183'.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.3	20.7	440	182	8.2
3	8.3	20.4	439	180	8.2
6	8.3	20.3	439	177	8.2
9	8.3	19.9	439	174	8.5
12	8.3	19.9	439	173	8.5
15	8.2	18.4	437	176	8.6
18	8.1	14.3	442	181	9.4
21	7.9	10.4	442	187	10.0
24	7.8	8.5	445	190	10.3
27	7.7	7.1	447	191	10.2
30	7.7	6.2	447	192	10.2
33	7.7	5.7	449	193	10.2
36	7.6	5.2	451	194	10.0
39	7.6	4.7	453	194	9.9
42	7.6	4.4	455	195	9.6
45	7.5	4.2	458	196	9.4
48	7.5	4.1	460	196	9.2
51	7.5	4.0	462	196	9.1
54	7.5	3.9	463	197	9.0
57	7.5	3.8	465	197	8.7
60	7.5	3.8	467	197	8.6
63	7.4	3.7	469	198	8.4
66	7.4	3.7	470	198	8.3
69	7.4	3.7	472	199	8.1
72	7.4	3.7	474	199	7.9
75	7.4	3.7	475	199	7.7
78	7.4	3.7	478	200	7.5
81	7.3	3.7	481	200	6.9
84	7.3	3.7	486	200	6.5
87	7.3	3.7	489	201	6.1
90	7.3	3.8	494	201	5.6
93	7.3	3.8	499	201	5.4
96	7.3	3.8	506	202	4.5
99	7.2	3.9	518	202	4.0

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.2	4.0	531	202	3.1
105	7.2	4.1	551	202	1.7
108	7.2	4.2	564	202	0.8
111	7.2	4.2	574	202	0.6
114	7.2	4.2	577	202	0.2
117	7.2	4.2	582	200	0.2
120	7.2	4.3	586	200	0.2
123	7.2	4.3	590	200	0.2
126	7.2	4.3	594	199	0.2
129	7.2	4.3	599	199	<0.1
132	7.2	4.4	604	199	<0.1
135	7.2	4.4	611	198	<0.1
138	7.3	4.5	619	198	<0.1
141	7.3	4.5	625	197	<0.1
144	7.3	4.5	632	196	<0.1
147	7.3	4.6	638	195	<0.1
150	7.3	4.6	639	193	<0.1
153	7.4	4.6	642	190	<0.1
156	7.4	4.6	645	189	<0.1
159	7.4	4.6	647	187	<0.1
162	7.4	4.6	647	185	<0.1
165	7.4	4.7	647	184	<0.1
168	7.4	4.6	648	184	<0.1
171	7.4	4.6	649	183	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, south wind, ~70°s F
Location: HPL-007

Date: 7/10/08
Field Crew: RRE/CLS

Start time: 1340 **Finish time:** 1500
Remarks: Tailings and mud encountered at 180-183'.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.4	21.3	436	96	8.5
3	8.4	21.2	436	96	8.6
6	8.4	21.1	436	97	8.6
9	8.4	21.0	436	97	8.6
12	8.4	20.9	436	97	8.6
15	8.2	17.4	433	106	9.4
18	8.0	12.6	437	113	10.1
21	8.0	10.2	440	116	10.3
24	7.9	8.2	441	119	10.5
27	7.8	7.1	442	121	10.5
30	7.8	6.5	442	123	10.4
33	7.7	5.8	444	125	10.2
36	7.7	5.5	446	125	10.1
39	7.7	5.1	447	126	9.9
42	7.7	4.8	449	128	9.7
45	7.6	4.4	451	129	9.5
48	7.6	4.2	454	130	9.2
51	7.6	4.1	456	131	9.0
54	7.5	3.9	458	132	8.7
57	7.5	3.9	459	133	8.7
60	7.5	3.7	463	134	8.4
63	7.5	3.7	463	135	8.3
66	7.5	3.6	466	135	8.1
69	7.4	3.6	467	136	8.0
72	7.4	3.6	468	136	7.9
75	7.4	3.8	469	137	7.8
78	7.4	3.7	471	137	7.7
81	7.4	3.7	476	139	6.5
84	7.4	3.7	481	140	6.0
87	7.3	3.7	481	141	5.9
90	7.3	3.8	488	141	5.3
93	7.3	3.8	493	142	4.8
96	7.3	3.9	502	143	3.9
99	7.3	3.9	513	143	3.5

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	4.0	524	144	2.6
105	7.2	4.0	535	144	1.6
108	7.2	4.1	545	144	1.1
111	7.2	4.1	556	144	<0.1
114	7.2	4.2	566	144	<0.1
117	7.2	4.2	572	144	<0.1
120	7.2	4.3	581	144	<0.1
123	7.2	4.3	586	143	<0.1
126	7.3	4.4	595	143	<0.1
129	7.3	4.4	598	143	<0.1
132	7.3	4.4	600	142	<0.1
135	7.3	4.4	606	142	<0.1
138	7.3	4.5	612	141	<0.1
141	7.3	4.5	619	141	<0.1
144	7.3	4.5	622	140	<0.1
147	7.3	4.6	628	140	<0.1
150	7.4	4.6	632	139	<0.1
153	7.4	4.6	635	138	<0.1
156	7.4	4.6	636	137	<0.1
159	7.4	4.6	638	137	<0.1
162	7.4	4.6	639	136	<0.1
165	7.4	4.6	639	136	<0.1
168	7.4	4.6	641	135	<0.1
171	7.4	4.7	641	134	<0.1
174	7.5	4.7	641	132	<0.1
177	7.5	4.7	641	131	<0.1

October 2008

NORTH
JACKSON
COMPANY

1004 Harbor Hills Drive, Suite 102 • Marquette, Michigan • 906.225.6787

November 13, 2008

Mr. Stephen V. Donohue
2737 South Ridge Road
P.O. Box 19012
Green Bay, WI 54307

Re: Humboldt Mill Site October 2008 Surface Water Monitoring Event

Dear Mr. Donohue:

Attached is the draft Humboldt Mill Site October 2008 Surface Water Monitoring Field Report.

If you have any questions, please call.

Sincerely,

Kari Paulson

North Jackson Company
Surface Water Monitoring Report

Project Name: Humboldt Mill Site

Contact: North Jackson Company
1004 Harbor Hills Drive, Suite 102
Marquette, Michigan 49855
Phone (906) 225-6787

Summary of Monitoring Activities

Field Date(s): 10/7/08, 10/8/08, 10/9/08, 10/10/08

Activities: Collected surface water samples from EBR-001, MBR-001, WBR-001, WBR-002, WBR-003, MER-001, MER-002, MER-003, WLD-001SE, WLD-001, WLD-002, WLD-003, HMP-004, HMP-005, HMP-009, HTP-001, HTP-002, LKL-001 and LKL-002.

Unable to collect sample from WLD-001NW, HMP-006 and HMP-007 since these locations were dry.

Measured flow at EBR-001, MBR-001, WBR-001, WBR-002, WBR-003, MER-001, MER-002, MER-003, WLD-001NW and WLD-001SE.

Collected flow data for Weir 1 & Weir 2.

Measured water levels at HMP locations on 10/9/08.

Collected 3 masked duplicate and 3 field blank samples.

Field methods: Temperature - EPA 170.1
Specific conductance - EPA 120.1
D.O. - EPA 360.1
pH - EPA 9040C

Field Report Attachments

Field Analytical Data Summary	Yes
Quality Control Summary	Yes
Flow Measurement	10
Water Sampling Log	19
Chain of Custody Numbers	20081007, 20081008, 20081009, 20011010

Laboratory Analysis

Pace - Metals, anions, cations, general chemistry

Sampler Name(s): Richard Eagle (RRE), Peter Sabee (PJS), Curt Sheffield (CLS) and Andrew Maracini (AJM)

North Jackson Company
Quality Control Sampling Summary

Project Name: Humboldt Mill Site

Sample ID	Sampling Date	Description
DUP-001	10/7/08	Masked duplicate (MER-002)
DUP-002	10/8/08	Masked duplicate (WBR-003)
DUP-003	10/9/08	Masked duplicate (HMP-005)
FBK-001	10/7/08	Field blank (collected at MER-002)
FBK-002	10/8/08	Field blank (collected at MBR-001)
FBK-003	10/9/08	Field blank (collected at HMP-009)

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)
EBR-001	10/8/08	9.6	143	7.0	2.8	222
MBR-001	10/8/08	9.4	111	7.2	8.9	176
WBR-001	10/8/08	9.9	83	5.6	1.8	245
WBR-002	10/8/08	12	190	6.9	3.1	96
WBR-003	10/8/08	9.6	137	6.7	4.7	113
MER-001	10/7/08	9.0	104	NM	9.6	308
MER-002	10/7/08	9.5	142	7.2	8.4	126
MER-003	10/7/08	9.3	149	7.3	9.0	151
WLD-001NW	No Sample	d	d	d	d	d
WLD-001SE	10/7/08	11	312	6.9	3.5	-7
WLD-001	10/7 & 10/10/08	9.7	275	7.1	3.9	12
WLD-002	10/7/08	9.2	58	6.8	5.1	191
WLD-003	10/7/08	10	63	7.4	10.6	192
HMP-004	10/9/08	8.3	415	7.5	2.1	-187
HMP-005	10/9/08	7.7	366	7.0	3.0	9
HMP-006	No Sample	d	d	d	d	d
HMP-007	No Sample	d	d	d	d	d
HMP-009	10/9/08	9.4	440	7.9	3.6	13
HTP-001	10/7/08	11	182	7.7	9.3	144
HTP-002	10/7/08	11	146	7.9	10.8	151
LKL-001	10/9/08	12	61	7.6	8.6	117
LKL-002	10/9/08	NM	NM	NM	NM	NM

d Dry.
NM Not measured.

North Jackson Company
Flow Measurement Summary

Project Name: Humboldt Mill Site

Location	Measurement Date	Flow (cfs)
EBR-001	10/8/08	<0.1
MBR-001	10/8/08	0.4
WBR-001	10/8/08	0.1
WBR-002	10/8/08	<0.1
WBR-003	10/8/08	0.2
MER-001	10/7/08	7.6
MER-002	10/7/08	10
MER-003	10/7/08	9.7
WLD-001NW	10/8/08	Dry
WLD-001SE	10/8/08	<0.1

North Jackson Company
Water Level Summary

Project Name: Humboldt Mill Site

Location	Description of Measuring Point	Date	Measuring Point Elevation (ft MSL)	Water Level (ft)	Water Elevation (ft MSL)
HMP-004	Staff Gauge	10/9/08	1531.17	0.05	1531.22
HMP-005	Staff Gauge	10/9/08	1541.90	1.59	1543.49
HMP-006	Well Point	10/9/08	1752.52	Dry	Dry
HMP-007	Staff Gauge	10/9/08	1570.94	Dry	Dry
HMP-008	Staff Gauge	10/9/08	1535.92	2.01	1537.93
HMP-009	Staff Gauge	10/9/08	1532.59	1.55	1534.14

Staff gauges were read directly.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: EBR-001

Date: 10/8/08
Sampler(s): AJM/CLS
Sampling time: 1200

Odor: None
Appearance: Brownish

Temperature (°C): 9.6
Spec. Cond. (µmhos/cm @ 25°C): 143
Conductivity (µmhos): 101
pH (SU): 7.0
D.O. (ppm): 2.8
ORP (mV): 222

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=1.35' (10/8/08). No measurable flow.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: MBR-001

Date: 10/8/08
Sampler(s): AJM/CLS
Sampling time: 1100

Odor: None
Appearance: Brown, high sediment, organic material

Temperature (°C): 9.4
Spec. Cond. (µmhos/cm @ 25°C): 111
Conductivity (µmhos): 78
pH (SU): 7.2
D.O. (ppm): 8.9
ORP (mV): 176

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=4.25' (10/8/08).
Field blank (FBK-002) collected here at 1120.

Meter units: ft/sec
Flow Measurement AJM/CLS 10/8/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.5	0.0	0.00	0.0	0.00
1.0	0.8	0.4	-0.08	0.3	-0.03
1.6	0.6	0.4	0.03	0.2	0.01
2.2	0.6	0.4	0.04	0.2	0.01
2.8	0.6	0.4	0.05	0.2	0.01
3.4	0.6	0.6	0.05	0.4	0.02
4.0	0.6	0.7	0.08	0.4	0.03
4.6	0.6	0.6	0.06	0.4	0.02
5.2	0.5	0.6	0.07	0.3	0.02
5.6	0.4	1.0	0.08	0.4	0.03
6.0	0.4	1.0	0.09	0.4	0.04
6.4	0.5	1.0	0.07	0.5	0.04
7.0	0.6	1.0	0.08	0.6	0.05
7.6	0.6	0.9	0.06	0.5	0.03
8.2	0.6	0.3	0.07	0.2	0.01
8.8	0.6	1.2	0.10	0.7	0.07
9.4	0.6	1.0	0.08	0.6	0.05
10.0	0.8	0.4	0.01	0.3	0.00
11.0	1.0	0.3	-0.17	0.3	-0.05
12.0	0.5	0.0	0.00	0.0	0.00

Total flow: **0.4**

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: WBR-001

Date: 10/8/08
Sampler(s): AJM/CLS
Sampling time: 1550

Odor: NM
Appearance: NM

Temperature (°C): 10
Spec. Cond. (µmhos/cm @ 25°C): 83
Conductivity (µmhos): 59
pH (SU): 5.6
D.O. (ppm): 1.8
ORP (mV): 245

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=1.41' (10/8/08).

Meter units: ft/sec

Flow Measurement AJM/CLS 10/8/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.2	0.0	0.00	0.00	0.00
0.3	0.3	0.5	0.03	0.15	0.00
0.6	0.3	0.5	0.03	0.15	0.00
0.9	0.3	0.6	0.05	0.18	0.01
1.2	0.3	0.6	0.03	0.18	0.01
1.5	0.3	0.6	0.03	0.18	0.01
1.8	0.3	0.5	0.03	0.15	0.00
2.1	0.3	0.5	0.07	0.15	0.01
2.4	0.3	0.6	0.08	0.18	0.01
2.7	0.3	0.7	0.12	0.21	0.03
3.0	0.3	0.7	0.09	0.21	0.02
3.3	0.3	0.7	0.08	0.21	0.02
3.6	0.3	0.7	0.04	0.21	0.01
3.9	0.3	0.7	0.04	0.21	0.01
4.2	0.3	0.5	0.03	0.15	0.00
4.5	0.3	0.5	0.02	0.15	0.00
4.8	0.2	0.0	0.00	0.00	0.00

Total flow: 0.1

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: WBR-002

Date: 10/8/08
Sampler(s): AJM/CLS
Sampling time: 1435

Odor: Slightly swampy
Appearance: Yellowish, brown algae

Temperature (°C): 12
Spec. Cond. (µmhos/cm @ 25°C): 190
Conductivity (µmhos): 142
pH (SU): 6.9
D.O. (ppm): 3.1
ORP (mV): 96

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 3.05' (10/8/08). Report as <0.1 cfs.

Meter units: ft/sec

Flow Measurement AJM/CLS 10/8/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Stream Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.2	0.0	0.00	0.00	0.0000
0.3	0.3	0.1	-0.05	0.03	-0.0015
0.6	0.3	0.1	0.11	0.03	0.0033
0.9	0.3	0.1	-0.06	0.03	-0.0015
1.1	0.1	0.0	0.00	0.00	0.0000

Total Flow: **0.0003**

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, light rain, ~50°s F
Location: WBR-003

Date: 10/8/08
Sampler(s): AJM/CLS
Sampling time: 1320

Odor: Slightly swampy
Appearance: Yellowish w/ organics

Temperature (°C): 9.6
Spec. Cond. (µmhos/cm @ 25°C): 137
Conductivity (µmhos): 97
pH (SU): 6.7
D.O. (ppm): 4.7
ORP (mV): 113

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 1.91' (10/8/08).
Masked duplicate (DUP-002) collected here.

Right Culvert
Flow Measurement AJM/CLS 10/8/08

Meter units: ft/sec
Flow period: 40 sec

Distance from Initial Point (ft)	Width (ft)	Stream Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.2	0.0	0.00	0.0	0.00
0.3	0.3	0.5	0.01	0.2	0.00
0.6	0.2	0.8	0.02	0.1	0.00
0.6	0.3	0.8	0.03	0.2	0.01
1.2	0.5	0.8	0.05	0.4	0.02
1.5	0.3	0.8	0.08	0.2	0.02
1.8	0.3	0.8	0.11	0.2	0.03
2.1	0.3	0.8	0.10	0.2	0.02
2.4	0.3	0.7	0.07	0.2	0.01
2.7	0.2	0.7	0.06	0.1	0.01

Flow: 0.1

Left Culvert

Distance from Initial Point (ft)	Width (ft)	Stream Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
3.0	0.2	0.6	0.01	0.1	0.00
3.3	0.3	0.7	0.03	0.2	0.01
3.6	0.3	0.8	0.06	0.2	0.01
3.9	0.3	0.8	0.05	0.2	0.01
4.2	0.3	0.8	0.07	0.2	0.02
4.5	0.3	0.8	0.05	0.2	0.01
4.8	0.3	0.7	0.05	0.2	0.01
5.1	0.3	0.7	0.05	0.2	0.01
5.4	0.3	0.7	0.04	0.2	0.01
5.7	0.3	0.7	0.01	0.2	0.00
6.0	0.2	0.0	0.00	0.0	0.00

Flow: 0.1

Total Flow: 0.2

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: MER-001

Date: 10/7/08
Sampler(s): AJM/CLS
Sampling time: 1245

Odor: None
Appearance: Yellowish

Temperature (°C): 9.0
Spec. Cond. (µmhos/cm @ 25°C): 104
Conductivity (µmhos): 72
pH (SU): NM
D.O. (ppm): 9.6
ORP (mV): 308

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 5.19' (10/7/08).

Meter units: ft/sec
Flow Measurement CLS/AJM 10/7/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.5	0.0	0.00	0.0	0.00
1.0	1.5	0.2	-0.07	0.3	-0.02
3.0	2.0	0.4	0.00	0.8	0.00
5.0	1.8	0.8	0.28	1.4	0.39
6.5	1.5	0.9	0.31	1.4	0.42
8.0	1.5	1.0	0.38	1.5	0.57
9.5	1.5	1.0	0.35	1.5	0.53
11.0	1.5	1.1	0.36	1.7	0.59
12.5	1.5	1.1	0.39	1.7	0.64
14.0	1.5	1.0	0.36	1.5	0.54
15.5	1.5	1.0	0.40	1.5	0.60
17.0	1.5	0.9	0.42	1.4	0.57
18.5	1.5	0.9	0.39	1.4	0.53
20.0	1.5	0.9	0.45	1.4	0.61
21.5	1.5	0.8	0.47	1.2	0.56
23.0	1.5	0.7	0.39	1.1	0.41
24.5	1.5	0.7	0.28	1.1	0.29
26.0	1.8	0.7	0.26	1.2	0.32
28.0	2.0	0.5	0.07	1.0	0.07
30.0	1.0	0.0	0.00	0.0	0.00

Total Flow: **7.6**

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: MER-002

Date: 10/7/08
Sampler(s): CLS/AJM
Sampling time: 1410

Odor: None
Appearance: Yellowish

Temperature (°C): 9.5
Spec. Cond. (µmhos/cm @ 25°C): 142
Conductivity (µmhos): 100
pH (SU): 7.2
D.O. (ppm): 8.4
ORP (mV): 126

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP= 1.72' (10/7/08).
Masked duplicate (DUP-001) and field blank (FBK-001) collected here.

Meter units: ft/sec
Flow period: 40 sec

Flow Measurement CLS/AJM 10/7/08

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.5	0.0	0.00	0.0	0.00
1.0	2.0	0.3	0.09	0.6	0.05
4.0	3.0	0.9	0.30	2.7	0.81
7.0	2.3	1.3	0.31	2.9	0.91
8.5	1.5	1.3	0.38	2.0	0.74
10.0	1.3	1.3	0.33	1.6	0.54
11.0	1.0	1.4	0.42	1.4	0.59
12.0	1.0	1.4	0.40	1.4	0.56
13.0	1.0	1.4	0.40	1.4	0.56
14.0	1.0	1.2	0.41	1.2	0.49
15.0	1.0	1.4	0.36	1.4	0.50
16.0	1.0	2.0	0.20	2.0	0.40
17.0	1.0	1.7	0.36	1.7	0.61
18.0	1.0	1.7	0.37	1.7	0.63
19.0	1.0	1.6	0.33	1.6	0.53
20.0	1.0	1.5	0.35	1.5	0.53
21.0	1.0	1.3	0.29	1.3	0.38
22.0	2.0	1.1	0.17	2.2	0.37
25.0	3.0	0.7	0.30	2.1	0.63
28.0	3.0	0.5	0.09	1.5	0.14
31.0	1.5	0.0	0.00	0.0	0.00

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: MER-003

Date: 10/7/08
Sampler(s): CLS/AJM
Sampling time: 1530

Odor: None
Appearance: Yellowish

Temperature (°C): 9.3
Spec. Cond. (µmhos/cm @ 25°C): 149
Conductivity (µmhos): 104
pH (SU): 7.3
D.O. (ppm): 9.0
ORP (mV): 151

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP = 3.83' (10/7/08).

Meter units: ft/sec

Flow Measurement CLS/AJM 10/7/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
1.5	0.8	0.0	0.00	0.0	0.00
3.0	1.5	0.2	-0.05	0.3	-0.02
4.5	1.3	0.2	0.13	0.3	0.03
5.5	1.0	0.4	0.50	0.4	0.20
6.5	1.3	0.4	0.59	0.5	0.30
8.0	1.5	0.5	0.59	0.8	0.44
9.5	1.5	0.6	0.88	0.9	0.79
11.0	1.5	0.7	0.95	1.1	1.00
12.5	1.3	0.6	0.86	0.8	0.65
13.5	1.0	0.6	0.94	0.6	0.56
14.5	1.3	0.6	0.91	0.8	0.68
16.0	1.5	0.6	0.74	0.9	0.67
17.5	1.5	0.6	0.71	0.9	0.64
19.0	1.5	0.5	1.03	0.8	0.77
20.5	1.5	0.5	0.69	0.8	0.52
22.0	1.5	0.5	0.85	0.8	0.64
23.5	2.0	0.4	1.02	0.8	0.82
26.0	2.0	0.3	1.03	0.6	0.62
27.5	1.5	0.3	0.50	0.5	0.23
29.0	2.0	0.2	0.50	0.4	0.20
31.5	1.3	0.0	0.00	0.0	0.00

Total Flow: 9.7

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: WLD-001NW

Date: No Sample
Sampler(s): PJS/CLS
Sampling time: NA

Odor: NA
Appearance: NA

Temperature (°C): d
Spec. Cond. (µmhos/cm @ 25°C): d
Conductivity (µmhos): d
pH (SU): d
D.O. (ppm): d
ORP (mV): d

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Dry on 10/7/08.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: WLD-001SE

Date: 10/7/08
Sampler(s): CLS/PJS
Sampling time: 1620

Odor: None
Appearance: Orange

Temperature (°C): 11
Spec. Cond. (µmhos/cm @ 25°C): 312
Conductivity (µmhos): 228
pH (SU): 6.9
D.O. (ppm): 3.5
ORP (mV): -7

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: RP=0.72' (10/8/08). Reported as <0.1 cfs.

Meter units: ft/sec

Flow Measurement AJM/CLS 10/8/08 **Flow period:** 40 sec

Distance from Initial Point (ft)	Width (ft)	Total Depth (ft)	Velocity at Point (ft/s)	Area (ft^2)	Flow (cfs)
0.0	0.1	0.0	0.00	0.00	0.000
0.2	0.3	0.1	-0.02	0.03	-0.001
0.5	0.3	0.3	-0.01	0.09	-0.001
0.8	0.3	0.4	0.01	0.12	0.001
1.1	0.3	0.4	0.02	0.12	0.002
1.4	0.3	0.4	0.01	0.12	0.001
1.7	0.3	0.3	0.00	0.09	0.000
2.0	0.3	0.3	-0.01	0.09	-0.001
2.3	0.3	0.2	-0.01	0.06	-0.001
2.6	0.3	0.2	-0.03	0.06	-0.002
2.9	0.2	0.0	0.00	0.00	0.000

Total flow: **0.0001**

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site

Date: 10/7 & 10/10/08

Weather: Overcast, windy, ~50°s F

Sampler(s): CLS/PJS

Location: WLD-001

Sampling time: 1540

Odor: NM

Appearance: Orange

Temperature (°C): 9.7

Spec. Cond. (µmhos/cm @ 25°C): 275

Conductivity (µmhos): 195

pH (SU): 7.1

D.O. (ppm): 3.9

ORP (mV): 12

Sampling method: Grab sample

Date/Time	#Collected	Bottle	Preservative	Parameters
10/7/08 1540	1	500 ml plastic	HNO3	Metals, cations, hardness
10/7/08 1540	1	250 ml plastic	H2SO4	Ammonia, COD
10/7/08 1540	1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
10/7/08 1540	1	250 ml plastic	None	Nitrite, nitrate
10/7/08 1540	1	250 ml plastic	ZnAc, NaOH	Sulfide
10/7/08 1540	1	500 ml glass	None	LL Hg
10/7/08 1540	1	125 ml amber glass	H2SO4	TOC
10/10/08 1300	1	125 ml amber glass	H2SO4	DOC (Filtered)
10/7/08 1540	1	500 ml plastic	HNO3	Gross alpha & beta
10/7/08 1540	1	1 L plastic	None	TSS
10/7/08 1540	1	250 ml plastic	NaOH	Cyanide

Photographs: None

Remarks: Resampled DOC on 10/10/08 because bottle arrived broken at lab.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Mostly cloudy, breezy, ~50°s F
Location: WLD-002

Date: 10/7/08
Sampler(s): CLS/PJS
Sampling time: 1200

Odor: None
Appearance: Slight tannin

Temperature (°C): 9.2
Spec. Cond. (µmhos/cm @ 25°C): 58
Conductivity (µmhos): 41
pH (SU): 6.8
D.O. (ppm): 5.1
ORP (mV): 191

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 6.0'. Sample depth = 1.2'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Overcast, windy, ~50°s F
Location: WLD-003

Date: 10/7/08
Sampler(s): CLS/PJS
Sampling time: 1300

Odor: None
Appearance: Very slight tannin

Temperature (°C): 10
Spec. Cond. (µmhos/cm @ 25°C): 63
Conductivity (µmhos): 45
pH (SU): 7.4
D.O. (ppm): 10.6
ORP (mV): 192

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 6.0'. Sample depth = 1.2'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~50°s F
Location: HMP-004

Date: 10/9/08
Sampler(s): RRE/CLS
Sampling time: 1050

Odor: Hydrogen sulfide
Appearance: Clear

Temperature (°C): 8.3
Spec. Cond. (µmhos/cm @ 25°C): 415
Conductivity (µmhos): 283
pH (SU): 7.5
D.O. (ppm): 2.1
ORP (mV): -187

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Staff gauge=0.05' (10/9/08).
Lab MS/MSD collected here.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~40°s F
Location: HMP-005

Date: 10/9/08
Sampler(s): RRE/CLS
Sampling time: 0950

Odor: None
Appearance: Clear

Temperature (°C): 7.7
Spec. Cond. (µmhos/cm @ 25°C): 366
Conductivity (µmhos): 245
pH (SU): 7.0
D.O. (ppm): 3.0
ORP (mV): 9

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Staff gauge = 1.59' (10/9/08).
Masked duplicate (DUP-003) collected here.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~50°s F
Location: HMP-006

Date: No Sample
Sampler(s): CLS/PJS
Sampling time: NA

Odor: NA
Appearance: NA

Temperature (°C): d
Spec. Cond. (µmhos/cm @ 25°C): d
Conductivity (µmhos): d
pH (SU): d
D.O. (ppm): d
ORP (mV): d

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Dry on 10/9/08.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~50°s F
Location: HMP-007

Date: No Sample
Sampler(s): CLS/PJS
Sampling time: NA

Odor: NA
Appearance: NA

Temperature (°C): d
Spec. Cond. (µmhos/cm @ 25°C): d
Conductivity (µmhos): d
pH (SU): d
D.O. (ppm): d
ORP (mV): d

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Dry on 10/9/08.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~50°s F
Location: HMP-009

Date: 10/9/08
Sampler(s): CLS/PJS
Sampling time: 1210

Odor: Hydrogen sulfide
Appearance: Clear

Temperature (°C): 9.4
Spec. Cond. (µmhos/cm @ 25°C): 440
Conductivity (µmhos): 309
pH (SU): 7.9
D.O. (ppm): 3.6
ORP (mV): 13

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 0.67'. Sample depth = 0.13'. Staff gauge = 1.55' (10/9/08).
Field blank (FBK-003) collected here at 1130.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~50°s F
Location: HTP-001

Date: 10/7/08
Sampler(s): CLS/PJS
Sampling time: 1500

Odor: None
Appearance: Clear

Temperature (°C): 11
Spec. Cond. (µmhos/cm @ 25°C): 182
Conductivity (µmhos): 132
pH (SU): 7.7
D.O. (ppm): 9.3
ORP (mV): 144

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 2.2'. Sample depth = 0.5'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Windy, overcast, ~50°s F
Location: HTP-002

Date: 10/7/08
Sampler(s): CLS/PJS
Sampling time: 1420

Odor: None
Appearance: Very slight tannin to clear

Temperature (°C): 11
Spec. Cond. (µmhos/cm @ 25°C): 146
Conductivity (µmhos): 108
pH (SU): 7.9
D.O. (ppm): 10.8
ORP (mV): 151

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 6.0'. Sample depth = 1.2'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~50°s F
Location: LKL-001

Date: 10/9/08
Sampler(s): CLS/PJS
Sampling time: 1530

Odor: None
Appearance: Clear

Temperature (°C): 12
Spec. Cond. (µmhos/cm @ 25°C): 61
Conductivity (µmhos): 46
pH (SU): 7.6
D.O. (ppm): 8.6
ORP (mV): 117

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 26'. Sample depth = 5.2'.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, windy, ~50°s F
Location: LKL-002

Date: 10/9/08
Sampler(s): CLS/PJS
Sampling time: 1510

Odor: None
Appearance: Clear

Temperature (°C): NM
Spec. Cond. (µmhos/cm @ 25°C): NM
Conductivity (µmhos): NM
pH (SU): NM
D.O. (ppm): NM
ORP (mV): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Total water depth = 24'. Sample depth = 4.8'.
Field parameters not measured due to meter failure.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Rain, windy, ~50°s F
Location: Weir 1

Date: 10/6/08
Sampler(s): CLS/PJS
Sampling time: No sample

Odor: NA
Appearance: NA

Temperature (°C): 11
Spec. Cond. (μmhos/cm @ 25°C): NA
Conductivity (μmhos): NA
pH (SU): NA
D.O. (ppm): NA
ORP (mV): NA

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None

Remarks: No sample required here. Weir diameter = 2.0'. Water depth = 1.08'.
Max velocity = 0.27 ft/s. Temp 11.0° C.

North Jackson Company
Surface Water Monitoring Log

Proj. Name: Humboldt Mill Site
Weather: Rain, windy, ~50°s F
Location: Weir 2

Date: 10/6/08
Sampler(s): CLS/PJS
Sampling time: No sample

Odor: NA
Appearance: NA

Temperature (°C): 9.8
Spec. Cond. (µmhos/cm @ 25°C): NA
Conductivity (µmhos): NA
pH (SU): NA
D.O. (ppm): NA
ORP (mV): NA

Sampling method: NA

#Collected	Bottle	Preservative	Parameters
0	500 ml plastic	HNO3	Metals, cations, hardness
0	250 ml plastic	H2SO4	Ammonia, COD
0	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
0	250 ml plastic	None	Nitrite, nitrate
0	250 ml plastic	ZnAc, NaOH	Sulfide
0	500 ml glass	None	LL Hg
0	125 ml amber glass	H2SO4	TOC
0	125 ml amber glass	H2SO4	DOC (Filtered)
0	500 ml plastic	HNO3	Gross alpha & beta
0	1 L plastic	None	TSS
0	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: No sample required here. Weir is elliptical: 1.3' x 3.0' (+/- 0.2'). Water depth = 0.7'.
Max velocity = 0.0 ft/s. Temp 9.8° C.

NORTH
JACKSON
COMPANY

1004 Harbor Hills Drive, Suite 102 • Marquette, Michigan • 906.225.6787

November 10, 2008

Mr. Stephen V. Donohue
2737 South Ridge Road
P.O. Box 19012
Green Bay, WI 54307

Confidential and Privileged
Attorney Client Work Product and/or
Attorney-Client Communication
Prepared in Anticipation of Litigation

Re: Humboldt Mill Site October 2008 Pit Sampling and Profiling Monitoring Event

Dear Mr. Donohue:

Attached is the draft Humboldt Mill Site October 2008 Pit Sampling and Profiling Monitoring Field Report.

If you have any questions, please call.

Sincerely,

Kari Paulson

North Jackson Company
Field Sampling Report

Project Name: Humboldt Mill Site

Contact: North Jackson Company
1004 Harbor Hills Drive, Suite 102
Marquette, Michigan 49855
Phone (906) 225-6787

Summary of Monitoring Activities

Field Date(s): 10/3/08, 10/20/08, 10/21/08, 10/22/08, 10/23/08, 11/4/08

Activities: Collected surface water samples from the pit at HPL-003 & HPL-004 (at depths of 3', 15', 60', 120' & 175').

Completed profiles at 3-ft interval at HPL-001 through HPL-007.

Additional ferrous iron measurements made just above pit bottom at HPL-003 and HPL-004.

Collected masked duplicate and field blank samples.

Field methods: Temperature - EPA 170.1
Specific conductance - EPA 120.1
D.O. >1 (small YSI hand held) - EPA 360.1
D.O. <1 (ChemMetrics snap tubes) - Rhodazine D Method
pH - EPA 9040C

Field Report Attachments

Field Analytical Data Summary	Yes
Quality Control Summary	Yes
Flow Measurement	No
Water Sampling Log	Yes
Chain of Custody Numbers	20081020, 20081021

Laboratory Analysis

Pace - Metals, anions, cations, general chemistry

Sampler Name(s): Curt Sheffield (CLS), Andy Maracini (AJM) and Peter Sabee (PJS)

North Jackson Company
Surface Water Field Data Summary

Project Name: Humboldt Mill Site

Location	Sampling Date	Temp (°C)	Spec Cond (µmhos/cm @ 25°C)	pH (SU)	DO (ppm)	ORP (mV)	Ferrous Iron (mg/L)
HPL-003 3'	10/20/08	11*	431	8.1	10.4	61	NM
HPL-003 15'	10/20/08	11*	431	8.2	10.3	85	NM
HPL-003 60'	10/20/08	3.8*	462	7.5	8.2	139	NM
HPL-003 120'	10/20/08	5.4*	573	7.2	<0.1	115	<0.02
HPL-003 175'	10/20/08	5.4*	634	7.5	<0.1	65	<0.02
HPL-003 183'	10/20/08	NM	NM	NM	NM	NM	<0.02
HPL-004 3'	10/21/08	10	433	8.2	10.5	128	NM
HPL-004 15'	10/21/08	11	434	8.3	10.1	121	NM
HPL-004 60'	10/21/08	5.1	461	7.5	7.7	127	NM
HPL-004 120'	10/21/08	5.5*	565	7.3	<0.1	122	<0.02
HPL-004 175'	10/21/08	5.4*	635	7.6	<0.1	72	<0.02
HPL-004 186'	10/21/08	NM	NM	NM	NM	NM	<0.02

* Temp. value was affected by the flow-through cell method and is likely warmer than actual.
NM Not measured

North Jackson Company
Quality Control Sampling Summary

Project Name: Humboldt Mill Site

Sample ID	Sampling Date	Description
DUP-004	10/20/08	Masked duplicate (HPL-003 60')
DUP-005	10/21/08	Masked duplicate (HPL-004 3')
FBK-004	10/20/08	Field blank
FBK-005	10/21/08	Field blank

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Sample ID: HPL-003 3'

Date: 10/20/08
Sampler(s): CLS/AJM
Sampling time: 1120

Odor: None
Appearance: Clear

Temperature (°C): 11
Spec. Cond. (µmhos/cm @ 25°C): 431
Conductivity (µmhos): 314
pH (SU): 8.1
D.O. (ppm): 10.4
ORP (mV): 61
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	500 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Correction factor of 0.60 applied to conductivity and spec. cond. measurements due to calibration error.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Cloudy, ~40°s F
Sample ID: HPL-003 15'

Date: 10/20/08
Sampler(s): CLS/AJM
Sampling time: 1135

Odor: None
Appearance: Clear

Temperature (°C): 11
Spec. Cond. (µmhos/cm @ 25°C): 431
Conductivity (µmhos): 316
pH (SU): 8.2
D.O. (ppm): 10.3
ORP (mV): 85
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	500 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Correction factor of 0.60 applied to conductivity and spec. cond. measurements due to calibration error.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Sample ID: HPL-003 60'

Date: 10/20/08
Sampler(s): CLS/AJM
Sampling time: 1150

Odor: None
Appearance: Clear

Temperature (°C): 3.8
Spec. Cond. (μmhos/cm @ 25°C): 462
Conductivity (μmhos): 275
pH (SU): 7.5
D.O. (ppm): 8.2
ORP (mV): 139
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-004) collected here.
Correction factor of 0.60 applied to conductivity and spec. cond. measurements due to calibration error.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Rain, ~40°s F
Sample ID: HPL-003 120'

Date: 10/20/08
Sampler(s): CLS/AJM
Sampling time: 1410

Odor: None
Appearance: Clear

Temperature* (°C): 5.4
Spec. Cond. (µmhos/cm @ 25°C): 573
Conductivity (µmhos): 358
pH (SU): 7.2
D.O. (ppm): <0.1
ORP (mV): 115
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Correction factor of 0.60 applied to conductivity and spec. cond. measurements due to calibration error.
*Temp. value was affected by the flow-through cell method and is likely warmer than actual.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Rain, ~40°s F
Sample ID: HPL-003 175'

Date: 10/20/08
Sampler(s): CLS/AJM
Sampling time: 1505

Odor: None
Appearance: Clear

Temperature* (°C): 5.4
Spec. Cond. (µmhos/cm @ 25°C): 634
Conductivity (µmhos): 396
pH (SU): 7.5
D.O. (ppm): <0.1
ORP (mV): 65
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None

Remarks: Ferrous iron at 183' depth was <0.02 mg/L on 10/20/08.
Correction factor of 0.60 applied to conductivity and spec. cond. measurements due to calibration error.
*Temp. value was affected by the flow-through cell method and is likely warmer than actual.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Snow, rain, ~40°s F
Sample ID: HPL-004 3'

Date: 10/21/08
Sampler(s): CLS/AJM
Sampling time: 1100

Odor: None
Appearance: Clear

Temperature* (°C): 10
Spec. Cond. (µmhos/cm @ 25°C): 433
Conductivity (µmhos): 310
pH (SU): 8.2
D.O. (ppm): 10.5
ORP (mV): 128
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
2	500 ml plastic	HNO3	Metals, cations, hardness
2	250 ml plastic	H2SO4	Ammonia, COD
2	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
2	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
2	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
2	500 ml plastic	HNO3	Gross alpha & beta
2	1 L plastic	None	TSS
2	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Masked duplicate (DUP-005) collected here.
*Temp. value was affected by the flow-through cell method and is likely warmer than actual.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~40°s F
Sample ID: HPL-004 15'

Date: 10/21/08
Sampler(s): CLS/AJM
Sampling time: 1125

Odor: None
Appearance: Clear

Temperature* (°C): 11
Spec. Cond. (µmhos/cm @ 25°C): 434
Conductivity (µmhos): 315
pH (SU): 8.3
D.O. (ppm): 10.1
ORP (mV): 121
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: *Temp. value was affected by the flow-through cell method and is likely warmer than actual.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Snow, rain, ~40°s F
Sample ID: HPL-004 60'

Date: 10/21/08
Sampler(s): CLS/AJM
Sampling time: 1235

Odor: None
Appearance: Clear

Temperature* (°C): 5.1
Spec. Cond. (μmhos/cm @ 25°C): 461
Conductivity (μmhos): 286
pH (SU): 7.5
D.O. (ppm): 7.7
ORP (mV): 127
Ferrous Iron (mg/L): NM

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
2	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
2	125 ml amber glass	H2SO4	TOC
2	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Lab MS/MSD collected here.
*Temp. value was affected by the flow-through cell method and is likely warmer than actual.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Snow, rain, ~40°s F
Sample ID: HPL-004 120'

Date: 10/21/08
Sampler(s): CLS/AJM
Sampling time: 1405

Odor: None
Appearance: Clear

Temperature* (°C): 5.5
Spec. Cond. (µmhos/cm @ 25°C): 565
Conductivity (µmhos): 355
pH (SU): 7.3
D.O. (ppm): <0.1
ORP (mV): 122
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: *Temp. value was affected by the flow-through cell method and is likely warmer than actual.

North Jackson Company
Surface Water Sampling Log

Proj. Name: Humboldt Mill Site
Weather: Snow, rain, ~40°s F
Sample ID: HPL-004 175'

Date: 10/21/08
Sampler(s): CLS/AJM
Sampling time: 1510

Odor: None
Appearance: Clear

Temperature* (°C): 5.4
Spec. Cond. (µmhos/cm @ 25°C): 635
Conductivity (µmhos): 400
pH (SU): 7.6
D.O. (ppm): <0.1
ORP (mV): 72
Ferrous Iron (mg/L): <0.02

Sampling method: Grab sample

#Collected	Bottle	Preservative	Parameters
1	500 ml plastic	HNO3	Metals, cations, hardness
1	250 ml plastic	H2SO4	Ammonia, COD
1	500 ml plastic	None	Alk, Cl, Fl, sulfate TDS, turbidity
1	250 ml plastic	None	Nitrite, nitrate
1	250 ml plastic	ZnAc, NaOH	Sulfide
1	500 ml glass	None	LL Hg
1	125 ml amber glass	H2SO4	TOC
1	125 ml amber glass	H2SO4	DOC (Filtered)
1	500 ml plastic	HNO3	Gross alpha & beta
1	1 L plastic	None	TSS
1	250 ml plastic	NaOH	Cyanide

Photographs: None
Remarks: Ferrous iron at 186' depth was <0.02 mg/L on 10/21/08.
*Temp. value was affected by the flow-through cell method and is likely warmer than actual.

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, south breeze, ~40°s F
Location: HPL-001

Date: 10/23/08
Field Crew: CLS/DWW

Start time: 1055 **Finish time:** 1543
Remarks: *Some temp. values were affected by the flow-through cell method and are likely warmer than actual.

Depth (feet)	pH (SU)	Temp* (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.2	10.0	437	37	10.2
3	8.2	10.0	437	48	10.3
6	8.2	10.0	437	51	10.3
9	8.2	10.0	437	52	10.3
12	8.2	10.0	437	46	10.3
15	8.2	10.0	437	47	10.3
18	8.2	10.1	437	47	10.3
21	8.2	10.0	438	51	10.3
24	8.2	10.0	438	49	10.3
27	8.2	10.0	438	51	10.3
30	8.2	10.0	438	51	10.3
33	8.2	9.9	438	53	10.3
36	7.9	7.1	447	64	9.6
39	7.7	6.5	448	67	9.4
42	7.7	6.1	450	68	9.1
45	7.6	5.9	452	68	8.9
48	7.6	5.8	453	68	9.0
51	7.6	5.6	456	69	8.7
54	7.6	5.5	458	69	8.6
57	7.6	5.3	462	71	8.2
60	7.5	5.3	464	73	7.8
63	7.5	5.3	465	75	7.8
66	7.5	5.3	467	76	7.8
69	7.5	5.3	468	74	7.7
72	7.5	5.3	469	76	7.6
75	7.5	5.3	470	77	7.8
78	7.4	5.4	471	79	7.4
81	7.4	5.3	474	79	6.6
84	7.4	5.3	477	79	5.7
87	7.4	5.3	482	80	4.9
90	7.4	5.2	488	81	4.2
93	7.4	5.3	490	79	3.5
96	7.3	5.3	507	81	1.9
99	7.3	5.4	518	79	1.1

Depth (feet)	pH (SU)	Temp* (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	5.4	529	80	1.0
105	7.3	5.4	543	79	0.2
108	7.3	5.4	546	76	0.2
111	7.4	5.4	562	73	0.2
114	7.4	5.5	568	71	0.1
117	7.4	5.5	575	70	0.1
120	7.4	5.5	580	71	0.1
123	7.4	5.5	584	71	0.1
126	7.4	5.5	590	71	0.1
129	7.4	5.5	593	71	0.1
132	7.4	5.5	601	70	0.1
135	7.4	5.5	605	69	0.1
138	7.5	5.5	610	68	0.1
141	7.5	5.6	619	67	0.1
144	7.5	5.6	625	66	0.1
147	7.6	5.6	633	65	0.1
150	7.6	5.6	636	63	0.1
153	7.6	5.6	638	62	0.1
156	7.6	5.6	638	61	0.1
159	7.6	5.6	639	60	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Breezy, scattered clouds, ~50°s F
Location: HPL-002

Date: 11/4/08
Field Crew: CLS/PJS

Start time: 1044 **Finish time:** 1328
Remarks: Correction factor of 0.60 applied to sp. cond. measurements due to calibration error.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.1	8.0	431	165	10.8
3	8.1	7.9	431	166	10.8
6	8.1	7.9	431	165	10.8
9	8.1	7.9	431	165	10.8
12	8.1	7.9	431	165	10.7
15	8.1	7.7	432	165	10.7
18	8.1	7.7	432	164	10.7
21	8.1	7.6	432	164	10.7
24	8.0	7.6	432	164	10.7
27	8.0	7.6	432	164	10.6
30	8.0	7.6	432	163	10.5
33	7.9	7.5	433	163	10.4
36	7.8	7.5	433	163	10.0
39	7.7	6.8	437	168	9.8
42	7.6	5.7	442	175	9.2
45	7.5	5.3	443	175	9.0
48	7.5	4.7	446	177	8.7
51	7.5	4.2	451	177	8.2
54	7.4	4.0	455	178	7.8
57	7.4	3.8	458	178	7.7
60	7.4	3.8	460	178	7.6
63	7.4	3.8	461	178	7.5
66	7.4	3.8	462	178	7.4
69	7.4	3.8	463	178	7.2
72	7.4	3.8	466	177	6.9
75	7.4	3.8	467	176	6.7
78	7.3	3.8	467	176	6.4
81	7.3	3.8	471	176	5.4
84	7.3	3.8	476	173	4.6
87	7.3	3.8	479	173	4.3
90	7.3	3.9	483	173	3.9
93	7.3	3.9	487	173	3.5
96	7.3	3.9	498	173	2.7
99	7.3	4.0	515	173	1.9

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	4.0	525	173	1.0
105	7.3	4.1	532	173	0.1
108	7.3	4.1	545	172	0.1
111	7.3	4.1	551	172	0.1
114	7.3	4.2	563	171	0.1
117	7.4	4.2	567	171	0.1
120	7.4	4.3	574	170	0.1
123	7.4	4.3	580	169	0.1
126	7.4	4.4	587	170	0.1
129	7.4	4.4	593	169	0.1
132	7.5	4.4	596	168	0.1
135	7.5	4.5	604	168	0.1
138	7.5	4.5	606	168	0.1
141	7.5	4.5	610	167	0.1
144	7.5	4.5	614	167	0.1
147	7.5	4.5	617	167	0.1
150	7.5	4.6	619	166	0.1
153	7.5	4.6	623	166	0.1
156	7.5	4.6	625	166	0.1
159	7.5	4.6	626	166	0.1
162	7.5	4.6	628	165	0.1
165	7.5	4.6	629	165	0.1
168	7.5	4.6	630	165	0.1
171	7.6	4.7	631	164	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Partly cloudy, ~60°s F
Location: HPL-003

Date: 11/4/08
Field Crew: PJS/CLS

Start time: 1343 **Finish time:** 1542
Remarks: Suspended tailings encountered at 183'.
Correction factor of 0.60 applied to sp. cond. measurements due to calibration error.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.2	8.0	431	155	10.9
3	8.1	7.9	431	156	10.9
6	8.1	7.9	431	156	10.9
9	8.1	7.9	431	157	10.9
12	8.1	7.9	432	157	10.9
15	8.1	7.7	431	158	10.8
18	8.1	7.7	431	159	10.8
21	8.1	7.7	432	159	10.8
24	8.1	7.6	431	160	10.8
27	8.1	7.6	431	160	10.8
30	8.1	7.6	432	161	10.8
33	8.1	7.6	432	161	10.8
36	8.1	7.6	432	162	10.7
39	8.1	7.4	433	164	10.6
42	7.9	5.9	441	175	10.0
45	7.9	4.9	446	179	9.8
48	7.8	4.5	448	181	9.2
51	7.7	4.2	451	183	8.8
54	7.7	4.0	454	184	8.5
57	7.6	3.9	456	185	8.1
60	7.6	3.9	458	186	7.9
63	7.5	3.8	460	187	7.9
66	7.5	3.8	462	188	7.7
69	7.5	3.8	463	189	7.6
72	7.5	3.8	464	189	7.5
75	7.4	3.8	465	190	7.3
78	7.4	3.8	469	190	6.6
81	7.4	3.8	473	191	5.9
84	7.4	3.8	477	192	5.0
87	7.3	3.8	480	193	4.4
90	7.3	3.8	484	193	3.9
93	7.3	3.9	489	194	3.4
96	7.3	3.9	498	194	2.4
99	7.3	4.0	509	195	1.7

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	4.0	519	195	1.0
105	7.2	4.1	533	195	0.1
108	7.2	4.1	543	195	0.1
111	7.2	4.1	549	194	0.1
114	7.3	4.2	557	194	0.1
117	7.3	4.2	563	193	0.1
120	7.3	4.3	574	192	0.1
123	7.3	4.3	578	192	0.1
126	7.3	4.3	584	191	0.1
129	7.3	4.4	588	191	0.1
132	7.3	4.4	593	190	0.1
135	7.3	4.4	598	190	0.1
138	7.4	4.5	602	190	0.1
141	7.4	4.5	607	189	0.1
144	7.4	4.5	610	188	0.1
147	7.4	4.5	614	188	0.1
150	7.4	4.6	619	187	0.1
153	7.4	4.6	622	186	0.1
156	7.5	4.6	626	186	0.1
159	7.5	4.6	629	185	0.1
162	7.5	4.6	629	185	0.1
165	7.5	4.6	630	184	0.1
168	7.5	4.7	631	183	0.1
171	7.5	4.7	631	183	0.1
174	7.5	4.7	631	183	0.1
177	7.5	4.7	632	182	0.1
180	7.5	4.7	633	182	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Snow, rain, ~40°s F
Location: HPL-004

Date: 10/21/08
Field Crew: CLS/AJM

Start time: 1045 **Finish time:** 1525
Remarks: *Some temp. values were affected by the flow-through cell method and are likely warmer than actual.

Depth (feet)	pH (SU)	Temp* (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.0	9.8	433	130	10.1
3	8.2	10.1	433	128	10.5
6	8.2	10.3	434	127	10.1
9	8.2	10.7	434	124	10.1
12	8.2	10.7	434	123	10.5
15	8.3	10.7	434	121	10.1
18	8.3	10.6	434	121	10.3
21	8.3	10.9	434	118	10.3
24	8.3	10.9	434	119	10.3
27	8.3	10.8	435	119	10.3
30	8.2	10.8	435	119	10.3
33	7.9	8.1	440	129	10.0
36	7.8	6.9	442	129	9.8
39	7.7	6.4	444	130	9.7
42	7.7	5.8	447	130	9.4
45	7.7	5.6	448	130	9.4
48	7.6	5.4	452	129	8.8
51	7.6	5.0	458	130	8.2
54	7.6	5.1	457	129	8.1
57	7.5	5.0	459	128	8.0
60	7.5	5.1	461	127	7.7
63	7.5	4.9	463	124	7.5
66	7.5	5.0	465	122	7.3
69	7.4	5.0	465	124	7.3
72	7.4	4.9	466	125	7.2
75	7.4	4.9	468	125	6.9
78	7.4	4.8	470	126	6.4
81	7.4	4.8	473	127	5.6
84	7.4	4.8	476	128	5.2
87	7.4	4.9	480	129	4.3
90	7.3	4.9	485	128	3.6
93	7.3	5.1	489	124	3.0
96	7.3	5.0	494	124	2.5
99	7.3	4.9	506	126	1.6

Depth (feet)	pH (SU)	Temp* (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	5.0	525	127	1.0
105	7.3	5.0	530	127	0.3
108	7.3	5.0	541	126	0.1
111	7.3	5.1	549	125	<0.1
114	7.3	5.1	560	124	<0.1
117	7.3	5.2	566	122	<0.1
120	7.3	5.5	565	122	<0.1
123	7.4	5.2	579	118	<0.1
126	7.4	5.3	589	114	<0.1
129	7.4	5.3	589	114	<0.1
132	7.4	5.3	598	111	<0.1
135	7.4	5.4	603	108	<0.1
138	7.4	5.4	608	103	<0.1
141	7.5	5.4	616	99	<0.1
144	7.5	5.3	621	98	<0.1
147	7.5	5.3	624	96	<0.1
150	7.5	5.3	627	93	<0.1
153	7.5	5.3	630	92	<0.1
156	7.6	5.4	631	90	<0.1
159	7.6	5.4	632	88	<0.1
162	7.6	5.3	633	86	<0.1
165	7.6	5.3	633	86	<0.1
168	7.6	5.4	634	84	<0.1
171	7.6	5.4	633	79	<0.1
174	7.6	5.4	635	72	<0.1
177	7.6	5.4	635	67	<0.1
180	7.6	5.4	636	65	<0.1
183	7.6	5.4	640	63	<0.1
186	7.6	5.5	640	62	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, ~50°s F
Location: HPL-005

Date: 10/22/08
Field Crew: CLS/AJM

Start time: 1350 **Finish time:** 1720
Remarks: *Some temp. values were affected by the flow-through cell method and are likely warmer than actual.

Depth (feet)	pH (SU)	Temp* (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.1	10.5	438	-28	10.2
3	8.2	10.5	437	-24	10.4
6	8.2	10.5	437	-21	10.3
9	8.2	10.6	437	-18	10.3
12	8.2	10.7	437	-17	10.5
15	8.2	10.6	437	-15	10.3
18	8.2	10.5	437	-14	10.2
21	8.2	10.5	437	-14	10.3
24	8.2	10.4	437	-14	10.3
27	8.2	10.4	437	-14	10.5
30	8.2	10.3	437	-14	10.3
33	8.2	10.4	438	-14	10.3
36	8.2	10.7	438	-18	10.3
39	7.8	6.5	447	7	9.6
42	7.7	6.1	450	11	9.4
45	7.7	5.7	452	14	9.2
48	7.6	5.4	456	16	8.7
51	7.6	5.3	457	18	8.6
54	7.6	5.2	459	19	8.4
57	7.6	5.1	463	20	7.8
60	7.5	5.1	465	22	7.9
63	7.5	5.0	467	24	7.4
66	7.5	5.0	469	24	7.3
69	7.5	5.0	469	25	7.1
72	7.4	4.9	471	26	7.0
75	7.4	5.0	472	27	6.7
78	7.4	5.0	475	27	6.1
81	7.4	4.9	478	27	5.4
84	7.4	5.0	481	27	4.7
87	7.3	4.9	485	26	3.9
90	7.3	4.9	489	26	3.6
93	7.3	5.0	492	25	3.3
96	7.3	5.0	499	25	2.3
99	7.3	5.0	509	24	1.4

Depth (feet)	pH (SU)	Temp* (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	5.1	526	22	1.0
105	7.3	5.1	535	20	0.2
108	7.3	5.1	547	19	0.2
111	7.3	5.2	561	17	0.2
114	7.3	5.2	569	15	<0.1
117	7.3	5.2	576	13	<0.1
120	7.3	5.2	580	12	<0.1
123	7.4	5.2	586	10	<0.1
126	7.4	5.2	591	9	<0.1
129	7.4	5.3	598	7	<0.1
132	7.4	5.3	605	6	<0.1
135	7.4	5.3	610	4	<0.1
138	7.5	5.3	615	3	<0.1
141	7.5	5.3	621	2	<0.1
144	7.5	5.3	624	0	<0.1
147	7.5	5.4	630	-2	<0.1
150	7.5	5.4	632	-3	<0.1
153	7.5	5.4	634	-5	<0.1
156	7.5	5.4	637	-6	<0.1
159	7.6	5.4	638	-9	<0.1
162	7.6	5.4	640	-10	<0.1
165	7.6	5.4	640	-10	<0.1
168	7.6	5.5	641	-11	<0.1
171	7.6	5.5	641	-12	<0.1
174	7.6	5.4	641	-12	<0.1
177	7.6	5.3	641	-12	<0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Partly sunny, ~50°s F
Location: HPL-006

Date: 10/3/08
Field Crew: CLS/AJM

Start time: 1515 **Finish time:** 1622
Remarks: Spec cond and ORP not included due to instrument malfunction.

Depth (feet)	pH (SU)	Temp (°C)	DO (ppm)
surface	8.1	13.9	9.1
3	8.2	13.8	9.3
6	8.2	13.8	9.4
9	8.2	13.8	9.4
12	8.2	13.7	9.4
15	8.2	13.7	9.4
18	8.2	13.7	9.4
21	8.2	13.6	9.5
24	8.2	13.3	9.6
27	7.9	9.2	10.3
30	7.9	7.5	10.3
33	7.8	6.5	10.2
36	7.8	5.8	10.0
39	7.7	5.1	9.8
42	7.7	4.7	9.5
45	7.7	4.5	9.4
48	7.7	4.3	9.1
51	7.6	4.1	8.7
54	7.6	4.0	8.5
57	7.6	3.9	8.2
60	7.5	3.8	8.1
63	7.5	3.8	7.8
66	7.5	3.8	7.7
69	7.5	3.8	7.7
72	7.4	3.8	7.6
75	7.4	3.8	7.4
78	7.4	3.8	7.2
81	7.4	3.8	6.7
84	7.4	3.8	5.9
87	7.3	3.8	4.9
90	7.3	3.8	4.4
93	7.3	3.8	3.8
96	7.3	3.9	2.9
99	7.2	4.0	1.7

Depth (feet)	pH (SU)	Temp (°C)	DO (ppm)
102	7.2	4.0	0.8
105	7.2	4.1	0.1
108	7.2	4.1	0.1
111	7.2	4.1	0.1
114	7.2	4.2	0.1
117	7.2	4.2	0.1
120	7.2	4.3	0.1
123	7.2	4.3	0.1
126	7.3	4.3	0.1
129	7.3	4.4	0.1
132	7.3	4.4	0.1
135	7.3	4.4	0.1
138	7.3	4.5	0.1
141	7.3	4.5	0.1
144	7.3	4.5	0.1
147	7.3	4.5	0.1
150	7.4	4.6	0.1
153	7.4	4.6	0.1
156	7.4	4.6	0.1
159	7.4	4.6	0.1
162	7.4	4.6	0.1
165	7.4	4.6	0.1
168	7.4	4.7	0.1
171	7.4	4.7	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Overcast, ~50°s F
Location: HPL-006

Date: 11/4/08
Field Crew: PJS/CLS

Start time: 1348 **Finish time:** 1752
Remarks: Submerged pit wall may be contributing tailings 135-162'.
Correction factor of 0.60 applied to sp. cond. measurements due to calibration error.

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.1	8.1	431	234	10.8
3	8.1	8.0	431	241	10.8
6	8.1	8.0	431	245	10.8
9	8.1	8.0	431	249	10.8
12	8.1	8.0	431	252	10.7
15	8.1	8.0	431	253	10.7
18	8.1	8.0	431	255	10.7
21	8.1	7.9	431	257	10.7
24	8.1	7.7	431	258	10.7
27	8.1	7.7	431	259	10.9
30	8.1	7.7	431	259	10.7
33	8.1	7.6	431	261	10.7
36	8.1	7.5	432	263	10.6
39	8.0	7.3	433	267	10.4
42	7.9	5.5	442	281	9.8
45	7.7	4.8	446	287	9.4
48	7.7	4.5	448	290	9.1
51	7.6	4.3	450	292	8.9
54	7.6	3.9	456	295	8.3
57	7.5	3.9	458	297	8.0
60	7.5	3.8	460	298	7.8
63	7.5	3.8	461	299	7.7
66	7.5	3.8	463	299	7.6
69	7.5	3.8	463	300	7.4
72	7.5	3.8	464	301	7.4
75	7.4	3.8	466	301	7.2
78	7.4	3.8	468	301	6.9
81	7.4	3.8	472	300	6.0
84	7.4	3.8	476	299	4.9
87	7.3	3.8	480	295	4.4
90	7.3	3.9	486	290	3.8
93	7.3	3.9	489	289	3.6
96	7.3	3.9	496	284	2.6
99	7.3	3.9	500	277	2.1

Depth (feet)	pH (SU)	Temp (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	4.0	517	272	1.0
105	7.2	4.1	533	264	0.1
108	7.3	4.1	545	257	0.1
111	7.3	4.2	554	253	0.1
114	7.3	4.2	560	246	0.1
117	7.3	4.2	565	242	0.1
120	7.3	4.3	568	239	0.1
123	7.3	4.3	570	237	0.1
126	7.3	4.3	577	234	0.1
129	7.3	4.3	584	229	0.1
132	7.4	4.4	590	225	0.1
135	7.4	4.4	594	222	0.1
138	7.4	4.5	608	218	0.1
141	7.4	4.5	612	213	0.1
144	7.4	4.6	617	208	0.1
147	7.5	4.6	622	206	0.1
150	7.5	4.6	626	202	0.1
153	7.5	4.6	628	198	0.1
156	7.5	4.6	629	195	0.1
159	7.5	4.6	629	194	0.1
162	7.5	4.7	629	192	0.1

North Jackson Company
Lake/Pit Profile Log

Proj. Name: Humboldt Mill Site
Weather: Sunny, light breeze, ~50°s F
Location: HPL-007

Date: 10/23/08
Field Crew: CLS/AJM

Start time: 1605 **Finish time:** 1925
Remarks: Went to 10' interval at 108' due to darkness.
*Some temp. values were affected by the flow-through cell method and are likely warmer than actual.

Depth (feet)	pH (SU)	Temp* (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
surface	8.1	10.2	442	50	9.7
3	8.2	10.4	439	50	10.2
6	8.2	10.3	438	50	10.2
9	8.3	10.3	438	51	10.2
12	8.3	10.3	439	52	10.2
15	8.3	10.3	439	53	10.2
18	8.3	10.3	439	54	10.3
21	8.3	10.3	439	54	10.3
24	8.3	10.3	438	55	10.3
27	8.3	10.3	439	56	10.3
30	8.3	10.3	439	57	10.2
33	8.3	10.2	439	57	10.2
36	8.0	7.7	446	70	9.8
39	7.8	6.8	449	74	9.6
42	7.8	6.5	451	77	9.4
45	7.7	6.2	452	78	9.3
48	7.7	5.8	456	81	8.7
51	7.6	5.6	458	84	8.4
54	7.6	5.6	460	86	8.2
57	7.6	5.5	464	88	7.9
60	7.5	5.4	466	88	7.6
63	7.5	5.3	467	88	7.7
66	7.5	5.3	468	91	7.6
69	7.5	5.2	469	93	7.5
72	7.5	5.2	471	94	7.4
75	7.4	5.2	472	96	7.1
78	7.4	5.2	472	98	7.1
81	7.4	5.2	476	99	6.3
84	7.4	5.1	480	100	5.7
87	7.4	5.1	485	103	4.5
90	7.4	5.1	488	103	4.1
93	7.4	5.1	492	104	3.5
96	7.3	5.1	506	109	2.0
99	7.3	5.1	514	104	1.4

Depth (feet)	pH (SU)	Temp* (°C)	Sp Cond (µmhos/cm @ 25°C	ORP (mV)	DO (ppm)
102	7.3	5.1	531	107	1.0
105	7.3	5.1	541	107	0.1
108	7.3	5.1	552	107	0.1
120	7.3	5.2	580	105	0.1
130	7.4	5.3	602	104	0.1
140	7.5	5.3	618	102	0.1
150	7.5	5.3	631	101	0.1
160	7.5	5.3	639	99	0.1
170	7.4	5.3	642	97	0.1
180	7.6	5.3	643	97	0.1

Appendix G

2008 Surface Water Laboratory Reports

February – March 2008

Batch No. 893428

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone: 920.469.2436
Fax: 920.469.8827

April 10, 2008

Janis Kesy
Foth & Van Dyke
2737 South Ridge Road
Green Bay, WI 54304

Dear Ms. Kesy:

Enclosed is a report for the analysis of 40 surface water samples and associated QC samples for the Humboldt Mill project (06W003). These samples were received from February 19 to March 4, 2008. The samples were assigned to batch numbers 893428, 893476, 401155, 401290, 401342 and 401216 for laboratory tracking purposes.

A table of the results has also been sent to you via e-mail.

If you have any questions regarding this data please call me at (608) 232-3300.

Sincerely,

for Tod N.

Tod Noltemeyer
Project Manager

Pace Analytical®

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 893428

Client: FOTH INFRASTRUCTURE & ENVIRONMENT

Lab Contact: Tod Noltemeyer

Project Name: HUMBOLDT MILL

Project Number: 06W003

Lab Sample Number	Field ID	Matrix	Collection Date
893428-001	FBK-001	WATER	02/18/08 13:00
893428-002	DUP-001	WATER	02/18/08
893428-003	MER-001	WATER	02/18/08 15:15
893428-004	MER-003	WATER	02/18/08 14:30
893428-005	HMP-004	WATER	02/18/08 13:30
893428-006	HMP-005	WATER	02/18/08 11:30
893428-007	HMP-009	WATER	02/18/08 12:15

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

for Tod N. 4/10/08

Approval Signature **Date**

Pace Analytical Services, Inc.

Analytical Report Number: 893428

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : FBK-001

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-001

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	4.4	U 4.4	50	1	ug/L		02/25/08 02:37 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Antimony	0.20	B 0.10	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Arsenic	0.093	U 0.093	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Barium	0.65	B 0.072	1.0	1	ug/L	A	02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Beryllium	0.10	B 0.070	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Boron	16	1.1	10	1	ug/L	A	02/25/08 02:37 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Calcium	53	B 10	500	1	ug/L	A	02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Chromium	0.43	U 0.43	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Cobalt	0.080	B 0.059	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Copper	7.2	0.12	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Hardness	0.15	U 0.15	2.0	1	mg/L	A	02/25/08 02:37 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Iron	21	B 2.9	50	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Lead	0.19	B 0.044	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Lithium	0.085	U 0.085	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Magnesium	53	U 53	500	1	ug/L		02/25/08 02:37 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Manganese	0.52	B 0.080	1.0	1	ug/L	A	02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Mercury - Low Level	0.225	0.163	0.163	1	ng/L		02/29/08 11:34 AM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/28/08 09:00 AM	**Anl By:** TLH	
Molybdenum	0.27	B 0.12	10	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Nickel	0.21	B 0.075	1.0	1	ug/L	A	02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Potassium	6.2	U 6.2	500	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L	A	02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Silver	0.24	B 0.11	0.50	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Sodium	280	B 46	500	1	ug/L	A	02/25/08 02:37 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : FBK-001

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-001

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.070	B 0.030	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Zinc	16	2.1	10	1	ug/L	A	02/22/08 05:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Bicarbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	2.6	B 1.1	5.0	1	mg/L		02/19/08 02:35 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	11	U 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:17 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		Anl By: DAW
Fluoride	0.059	U 0.059	0.50	1	mg/L		02/19/08 02:35 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/20/08 01:19 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/20/08 08:44 AM		Anl By: DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L		02/19/08 02:35 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/19/08 05:29 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	0.51	U 0.51	4.0	1	mg/L		02/19/08 02:35 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/20/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	1.4	U 1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08		Anl By: GM
TOC as NPOC - Dissolved	1.4	U 1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08		Anl By: GM
Total Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	12	U 12	20	1	mg/L		02/20/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/20/08		Anl By: DEY
Total Suspended Solids	0.44	U 0.44	1.4	1	mg/L		02/20/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/20/08		Anl By: DDY
Turbidity	0.44	U 0.44	1.0	1	NTU		02/20/08 11:45 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/20/08 11:45 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : DUP-001

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-002

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	83	4.4	50	1	ug/L		02/25/08 02:31 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Arsenic	0.85	B 0.093	1.0	1	ug/L	A	02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Barium	7.9	0.072	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Boron	6.6	B 1.1	10	1	ug/L	A	02/25/08 02:31 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Calcium	9400	10	500	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Chromium	0.81	B 0.43	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Cobalt	0.13	B 0.059	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Copper	0.55	B 0.12	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Hardness	34	0.15	2.0	1	mg/L		02/25/08 02:31 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Iron	1200	2.9	50	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Lead	0.15	B 0.044	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Lithium	0.51	B 0.085	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Magnesium	2600	53	500	1	ug/L		02/25/08 02:31 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Manganese	66	0.080	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Mercury - Low Level	2.50	0.163	0.500	1	ng/L		02/29/08 11:43 AM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/28/08 09:00 AM	**Anl By:** TLH	
Molybdenum	0.21	B 0.12	10	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Nickel	0.51	B 0.075	1.0	1	ug/L	A	02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Potassium	530	6.2	500	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L	A	02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Sodium	2500	46	500	1	ug/L		02/25/08 02:31 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : DUP-001

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-002

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.030	U 0.030	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		**Anl By:** MSB
Vanadium	0.57	B 0.41	1.0	1	ug/L		02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		**Anl By:** MSB
Zinc	6.2	B 2.1	10	1	ug/L	A	02/22/08 05:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		**Anl By:** MSB
Bicarbonate Alkalinity	24	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Chloride	5.5	1.1	5.0	1	mg/L		02/19/08 02:47 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
COD	35	B 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		**Anl By:** DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:18 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		**Anl By:** DAW
Fluoride	0.059	U 0.059	0.50	1	mg/L		02/19/08 02:47 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/20/08 01:19 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/20/08 08:44 AM		**Anl By:** DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L	N	02/19/08 02:47 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L	N	02/19/08 05:43 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfate	7.3	0.51	4.0	1	mg/L		02/19/08 02:47 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/20/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		**Anl By:** DEY
TOC as NPOC	9.7	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
TOC as NPOC - Dissolved	11	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
Total Alkalinity	24	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Total Dissolved Solids	36	12	20	1	mg/L		02/20/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/20/08		**Anl By:** DEY
Total Suspended Solids	1.4	B 0.61	2.0	1	mg/L		02/20/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/20/08		**Anl By:** DDY
Turbidity	3.3	0.44	1.0	1	NTU		02/20/08 11:45 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/20/08 11:45 AM		**Anl By:** DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		**Anl By:**

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1241 Bellevue Street
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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : MER-001

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-003

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	77	4.4	50	1	ug/L		02/25/08 02:25 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Arsenic	0.70	B 0.093	1.0	1	ug/L	A	02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Barium	7.9	0.072	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Boron	6.9	B 1.1	10	1	ug/L	A	02/25/08 02:25 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Calcium	9300	10	500	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Chromium	0.57	B 0.43	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Cobalt	0.13	B 0.059	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Copper	0.57	B 0.12	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Hardness	34	0.15	2.0	1	mg/L		02/25/08 02:25 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Iron	1200	2.9	50	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Lead	0.16	B 0.044	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Lithium	0.53	B 0.085	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Magnesium	2600	53	500	1	ug/L		02/25/08 02:25 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Manganese	65	0.080	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Mercury - Low Level	2.43	0.163	0.500	1	ng/L		02/29/08 11:39 AM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/28/08 09:00 AM	**Anl By:** TLH	
Molybdenum	0.21	B 0.12	10	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Nickel	0.55	B 0.075	1.0	1	ug/L	A	02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Potassium	530	6.2	500	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L	A	02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	
Sodium	2400	46	500	1	ug/L		02/25/08 02:25 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	**Anl By:** MSB	

Pace Analytical Services, Inc.

1241 Bellevue Street
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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : MER-001

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-003

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.030	U 0.030	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Vanadium	0.56	B 0.41	1.0	1	ug/L		02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Zinc	36	2.1	10	1	ug/L	A	02/22/08 05:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Bicarbonate Alkalinity	36	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	5.4	1.1	5.0	1	mg/L		02/19/08 03:24 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	33	B 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:19 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		Anl By: DAW
Fluoride	0.059	U 0.059	0.50	1	mg/L		02/19/08 03:24 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/20/08 01:20 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/20/08 08:44 AM		Anl By: DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L		02/19/08 03:24 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/19/08 06:25 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	7.2	0.51	4.0	1	mg/L		02/19/08 03:24 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/20/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	11	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
TOC as NPOC - Dissolved	11	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
Total Alkalinity	36	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	74	12	20	1	mg/L	*	02/20/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/20/08		Anl By: DEY
Total Suspended Solids	1.6	B 0.61	2.0	1	mg/L		02/20/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/20/08		Anl By: DDY
Turbidity	4.3	0.44	1.0	1	NTU	*	02/20/08 11:45 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/20/08 11:45 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : MER-003

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-004

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	64	4.4	50	1	ug/L		02/25/08 02:19 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Antimony	0.14	B 0.10	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Arsenic	1.1	0.093	1.0	1	ug/L	A	02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Barium	9.3	0.072	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Boron	11	1.1	10	1	ug/L	A	02/25/08 02:19 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Calcium	11000	10	500	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Chromium	0.43	U 0.43	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Cobalt	0.31	B 0.059	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Copper	0.48	B 0.12	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Hardness	42	0.15	2.0	1	mg/L		02/25/08 02:19 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Iron	1500	2.9	50	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Lead	0.10	B 0.044	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Lithium	0.66	B 0.085	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Magnesium	3300	53	500	1	ug/L		02/25/08 02:19 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Manganese	100	0.080	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Mercury - Low Level	2.20	0.163	0.500	1	ng/L		02/29/08 11:48 AM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/28/08 09:00 AM	Anl By: TLH	
Molybdenum	0.34	B 0.12	10	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Nickel	0.82	B 0.075	1.0	1	ug/L	A	02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Potassium	750	6.2	500	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L	A	02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Sodium	4900	46	500	1	ug/L		02/25/08 02:19 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	

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1241 Bellevue Street
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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : MER-003

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-004

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.030	U 0.030	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Vanadium	0.58	B 0.41	1.0	1	ug/L		02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Zinc	6.6	B 2.1	10	1	ug/L	A	02/22/08 05:44 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Bicarbonate Alkalinity	20	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	9.3	1.1	5.0	1	mg/L		02/19/08 03:36 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	33	B 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:20 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		Anl By: DAW
Fluoride	0.059	U 0.059	0.50	1	mg/L		02/19/08 03:36 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/20/08 01:21 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/20/08 08:44 AM		Anl By: DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L		02/19/08 03:36 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/19/08 06:39 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	11	0.51	4.0	1	mg/L		02/19/08 03:36 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/20/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	9.4	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
TOC as NPOC - Dissolved	11	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
Total Alkalinity	20	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	80	12	20	1	mg/L		02/20/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/20/08		Anl By: DEY
Total Suspended Solids	1.5	0.31	1.0	1	mg/L		02/20/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/20/08		Anl By: DDY
Turbidity	4.5	0.44	1.0	1	NTU		02/20/08 11:45 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/20/08 11:45 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : HMP-004

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-005

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	8.2	B 4.4	50	1	ug/L		02/25/08 02:13 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Antimony	9.7	0.10	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Arsenic	0.45	B 0.093	1.0	1	ug/L	A	02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Barium	11	0.072	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Boron	82	1.1	10	1	ug/L	A	02/25/08 02:13 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Calcium	55000	100	5000	10	ug/L		02/22/08 04:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Chromium	0.43	U 0.43	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Cobalt	3.1	0.059	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Copper	1.7	0.12	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Hardness	240	1.5	20	10	mg/L		02/22/08 04:38 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Iron	140	2.9	50	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Lead	0.080	B 0.044	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Lithium	2.6	0.085	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Magnesium	25000	530	5000	10	ug/L		02/22/08 04:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Manganese	11	0.080	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Mercury - Low Level	0.406	B 0.163	0.500	1	ng/L		02/29/08 11:54 AM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/28/08 09:00 AM	Anl By: TLH	
Molybdenum	12	0.12	10	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Nickel	21	0.075	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Potassium	8300	6.2	500	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Selenium	0.26	B 0.15	1.0	1	ug/L	A	02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Sodium	14000	460	5000	10	ug/L		02/22/08 04:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	

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1241 Bellevue Street
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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : HMP-004

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-005

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.030	B 0.030	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		**Anl By:** MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		**Anl By:** MSB
Zinc	13	2.1	10	1	ug/L	A	02/22/08 05:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		**Anl By:** MSB
Bicarbonate Alkalinity	110	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Chloride	13	1.1	5.0	1	mg/L		02/19/08 03:48 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
COD	13	B 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		**Anl By:** DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:21 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		**Anl By:** DAW
Fluoride	0.32	B 0.059	0.50	1	mg/L		02/19/08 03:48 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/20/08 01:22 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/20/08 08:44 AM		**Anl By:** DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L		02/19/08 03:48 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/19/08 06:54 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfate	140	5.1	40	10	mg/L		02/20/08 08:59 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/20/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		**Anl By:** DEY
TOC as NPOC	3.3	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
TOC as NPOC - Dissolved	4.7	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
Total Alkalinity	110	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Total Dissolved Solids	360	12	20	1	mg/L		02/20/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/20/08		**Anl By:** DEY
Total Suspended Solids	1.0	0.31	1.0	1	mg/L		02/20/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/20/08		**Anl By:** DDY
Turbidity	1.0	0.44	1.0	1	NTU		02/20/08 11:45 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/20/08 11:45 AM		**Anl By:** DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		**Anl By:**

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1241 Bellevue Street
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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : HMP-005

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-006

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	15	B 4.4	50	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Antimony	0.20	B 0.10	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Arsenic	10	0.093	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Barium	31	0.072	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Beryllium	0.070	B 0.070	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Boron	48	1.1	10	1	ug/L	A	02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Calcium	37000	10	500	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Chromium	0.43	U 0.43	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Cobalt	4.8	0.059	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Copper	0.48	B 0.12	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Hardness	160	0.15	2.0	1	mg/L		02/25/08 02:01 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Iron	7000	2.9	50	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Lead	0.18	B 0.044	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Lithium	1.9	0.085	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Magnesium	17000	53	500	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Manganese	1100	0.080	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Mercury - Low Level	0.507	0.163	0.500	1	ng/L		02/29/08 01:02 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/28/08 09:00 AM	Anl By: TLH	
Molybdenum	1.1	B 0.12	10	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Nickel	10	0.075	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Potassium	3300	6.2	500	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Selenium	0.49	B 0.15	1.0	1	ug/L	A	02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 10:14 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Sodium	6200	46	500	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	

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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : HMP-005

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-006

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.11	B 0.030	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Zinc	5.4	B 2.1	10	1	ug/L	A	02/25/08 02:01 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Bicarbonate Alkalinity	84	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	11	1.1	5.0	1	mg/L		02/19/08 04:00 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	13	B 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:21 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		Anl By: DAW
Fluoride	0.28	B 0.059	0.50	1	mg/L		02/19/08 04:00 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/20/08 01:25 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/20/08 08:44 AM		Anl By: DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L		02/19/08 04:00 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/19/08 07:08 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	80	1.0	8.0	2	mg/L		02/20/08 09:11 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/20/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	2.8	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
TOC as NPOC - Dissolved	2.8	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
Total Alkalinity	84	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	140	12	20	1	mg/L		02/20/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/20/08		Anl By: DEY
Total Suspended Solids	9.8	0.61	2.0	1	mg/L		02/20/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/20/08		Anl By: DDY
Turbidity	35	0.44	1.0	1	NTU		02/20/08 11:45 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/20/08 11:45 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

Pace Analytical Services, Inc.

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Analytical Report Number: 893428

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : HMP-009

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-007

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	16	B 4.4	50	1	ug/L		02/25/08 01:31 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Antimony	9.6	0.10	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Arsenic	0.12	B 0.093	1.0	1	ug/L	A	02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Barium	17	0.072	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Boron	71	1.1	10	1	ug/L	A	02/25/08 01:31 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Calcium	55000	100	5000	10	ug/L		02/22/08 03:27 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Chromium	0.43	U 0.43	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Cobalt	2.9	0.059	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Copper	2.4	0.12	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Hardness	240	1.5	20	10	mg/L		02/22/08 03:27 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Iron	130	2.9	50	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Lead	0.070	B 0.044	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Lithium	1.6	0.085	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Magnesium	25000	530	5000	10	ug/L		02/22/08 03:27 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Manganese	26	0.080	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Mercury - Low Level	0.603	0.163	0.500	1	ng/L		02/29/08 12:42 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/28/08 09:00 AM	Anl By: TLH	
Molybdenum	11	0.12	10	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Nickel	7.5	0.075	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Potassium	8700	6.2	500	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L	A	02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	
Sodium	13000	460	5000	10	ug/L		02/22/08 03:27 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM	Anl By: MSB	

Pace Analytical Services, Inc.

Analytical Report Number: 893428

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : HMP-009

Matrix Type : WATER
Collection Date : 02/18/08
Report Date : 03/07/08
Lab Sample Number : 893428-007

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.050	B 0.030	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Zinc	6.7	B 2.1	10	1	ug/L	A	02/22/08 04:50 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/20/08 09:55 AM		Anl By: MSB
Bicarbonate Alkalinity	100	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	12	1.1	5.0	1	mg/L		02/19/08 04:37 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	15	B 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:25 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		Anl By: DAW
Fluoride	0.33	B 0.059	0.50	1	mg/L		02/19/08 04:37 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/20/08 01:25 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/20/08 08:44 AM		Anl By: DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L		02/19/08 04:37 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/19/08 07:50 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	130	5.1	40	10	mg/L		02/20/08 09:23 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/20/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	3.0	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
TOC as NPOC - Dissolved	3.6	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
Total Alkalinity	100	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	340	12	20	1	mg/L		02/20/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/20/08		Anl By: DEY
Total Suspended Solids	0.50	B 0.31	1.0	1	mg/L		02/20/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/20/08		Anl By: DDY
Turbidity	0.75	B 0.44	1.0	1	NTU		02/20/08 11:45 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/20/08 11:45 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

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Lab Number	TestGroupID	Field ID	Comment
893428	M-AS-W	All Samples	A - Analyte is detected in the method blank at a concentration of -0.15 ug/L.
893428	M-BA-W	All Samples	A - Analyte is detected in the method blank at a concentration of 0.10 ug/L.
893428	M-B-W	All Samples	A - Analyte is detected in the method blank at a concentration of 9.6 ug/L.
893428	M-CA-W	All Samples	A - Analyte is detected in the method blank at a concentration of 87 ug/L.
893428	M-HD-W	All Samples	A - Analyte is detected in the method blank at a concentration of 0.38 mg/L.
893428	M-MN-W	All Samples	A - Analyte is detected in the method blank at a concentration of 0.34 ug/L.
893428	M-NA-W	All Samples	A - Analyte is detected in the method blank at a concentration of 46 ug/L.
893428	M-NI-W	All Samples	A - Analyte is detected in the method blank at a concentration of -0.09 ug/L.
893428	M-SE-W	All Samples	A - Analyte is detected in the method blank at a concentration of -0.48 ug/L.
893428	M-ZN-W	All Samples	A - Analyte is detected in the method blank at a concentration of 3.4 ug/L.

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	893428-001	893428-002	893428-003	893428-004	893428-005	893428-006	893428-007
ALKALINITY, BICARB/CARB/TOTAL	B	B	B	B	B	B	B
ALUMINUM	B	B	B	B	B	B	B
ANTIMONY	B	B	B	B	B	B	B
ARSENIC	B	B	B	B	B	B	B
BARIUM	B	B	B	B	B	B	B
BERYLLIUM	B	B	B	B	B	B	B
BORON	B	B	B	B	B	B	B
CADMIUM	B	B	B	B	B	B	B
CALCIUM	B	B	B	B	B	B	B
CHLORIDE	B	B	B	B	B	B	B
CHROMIUM	B	B	B	B	B	B	B
COBALT	B	B	B	B	B	B	B
COD	B	B	B	B	B	B	B
COPPER	B	B	B	B	B	B	B
CYANIDE, TOTAL	B	B	B	B	B	B	B
FLUORIDE	B	B	B	B	B	B	B
HARDNESS	B	B	B	B	B	B	B
IRON	B	B	B	B	B	B	B
LEAD	B	B	B	B	B	B	B
LITHIUM	B	B	B	B	B	B	B
MAGNESIUM	B	B	B	B	B	B	B
MANGANESE	B	B	B	B	B	B	B
MERCURY - LOW LEVEL	B	B	B	B	B	B	B
MOLYBDENUM	B	B	B	B	B	B	B
NICKEL	B	B	B	B	B	B	B
NITROGEN, AMMONIA	B	B	B	B	B	B	B
NITROGEN, NITRATE	B	B	B	B	B	B	B
NITROGEN, NITRITE	B	B	B	B	B	B	B
POTASSIUM	B	B	B	B	B	B	B
SAS	C	C	C	C	C	C	C
SELENIUM	B	B	B	B	B	B	B
SILVER	B	B	B	B	B	B	B
SODIUM	B	B	B	B	B	B	B
SOLIDS, TOTAL DISSOLVED	B	B	B	B	B	B	B
SOLIDS, TOTAL SUSPENDED	B	B	B	B	B	B	B
SULFATE	B	B	B	B	B	B	B
SULFIDE	B	B	B	B	B	B	B
THALLIUM	B	B	B	B	B	B	B
TOC AS NPOC	B	B	B	B	B	B	B
TOC AS NPOC - DISSOLVED	B	B	B	B	B	B	B

Pace Analytical Services, Inc.

Analysis Summary by Laboratory

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Test Group Name	893428-001	893428-002	893428-003	893428-004	893428-005	893428-006	893428-007
TURBIDITY	B	B	B	B	B	B	B
VANADIUM	B	B	B	B	B	B	B
ZINC	B	B	B	B	B	B	B

Code	MI Certification
B	Not Certified
C	See Report

Pace Analytical Services, Inc.

QC Summary

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Batch Number: 893428
Lab Section: METALS
QC Batch Number: 29070
Prep Method: EPA 1631E
Analytical Method: EPA 1631E

QC Type	Client Sample ID	Lab Sample ID
MB	MBWMTG2414-019	MBWMTG2414-019
MB2	MB2WMTG2414-019	MB2WMTG2414-019
MB3	MB3WMTG2414-019	MB3WMTG2414-019
IPR	IPRWMTG2414-019	IPRWMTG2414-019
OPR	OPRWMTG2414-019	OPRWMTG2414-019
MS	893456-002MS	893456-002MS
MS	893455-005MS	893455-005MS
MSD	893456-002MSD	893456-002MSD
MSD	893455-005MSD	893455-005MSD

Client Sample ID	Lab Sample ID	Client Sample ID	Lab Sample ID
FBK-001	893428-001	DUP-001	893428-002
MER-001	893428-003	MER-003	893428-004
HMP-004	893428-005	HMP-005	893428-006
HMP-009	893428-007		

Test Name	Method Blank Result Conc	Method Blank 2 Result Conc	Method Blank 3 Result Conc	IPR/OPR Spiked Conc	IPR Recovery Conc	IPR Recovery %	OPR Recovery Conc	OPR Recovery %	IPR/OPR Control Limits LCL %	IPR/OPR Control Limits UCL %	Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery Conc	MS Recovery %	C	MSD Spiked Conc	MSD Recovery Conc	MSD Recovery %	C	MS/MSD RPD %	C	MS/MSD Control Limits LCL %	MS/MSD Control Limits UCL %	MS/MSD Control Limits RPD %
Mercury - Low Level	0.357	0.3137	0.2284	5	4.995	99.9	5.019	100.4	79	121	893455-005	24.48	100.0	127.2	102.7		100.0	125.1	100.6		1.7		75	125	24
Mercury - Low Level											893456-002	622.20	2000.0	2672	102.5		2000.0	2619.7	99.9		2.0		75	125	24

Conc = ng/L unless otherwise noted
C = QC Code, see Qualifer Sheet
Parent Result is reported down to MDL in order to allow Validation of this worksheet
The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 3/7/2008
QC Batch Number: 29070

Humboldt

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March 6, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
893428 Foth & Van Dyke
Pace Project No. 08-0891

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on February 21, 2008 and logged in for analysis on February 22, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:tew

Enclosures

REPORT OF LABORATORY ANALYSIS

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ACCREDITED IN ACCORDANCE WITH nelac

PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-0891
CLIENT: 893428 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0802-1021	893428001 (FBK-001)	0802-1022	893428002 (DUP-001)
0802-1023	893428003 (MER-001)	0802-1024	893428004 (MER-003)
0802-1025	893428005 (HMP-004)	0802-1026	893428006 (HMP-005)
0802-1027	893428007 (HMP-009)		

C: SHIPPING/RECEIVING COMMENTS:

Final Report 03-06-08.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

000003

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-0891
Groundwater Characterization; 893428 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0802-1021	893428001 (FBK-001)	(2/18/08)	03/04/08	-0.311 ± 0.358	(1.48)
0802-1022	893428002 (DUP-001)	(2/18/08)	03/04/08	0.315 ± 0.788	(1.89)
0802-1023	893428003 (MER-001)	(2/18/08)	03/04/08	0.477 ± 0.806	(1.80)
0802-1024	893428004 (MER-003)	(2/18/08)	03/04/08	0.462 ± 0.302	(0.458)
0802-1025	893428005 (HMP-004)	(2/18/08)	03/03/08	2.86 ± 1.07	(1.30)
0802-1026	893428006 (HMP-005)	(2/18/08)	03/03/08	0.384 ± 0.532	(1.02)
0802-1027	893428007 (HMP-009)	(2/18/08)	03/03/08	1.82 ± 0.811	(1.08)
0802-1028	Method Blank	(2/21/08)	03/03/08	0.315 ± 0.842	(2.02)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0802-1021	893428001 (FBK-001)	(2/18/08)	03/04/08	0.100 ± 0.716	(1.77)
0802-1022	893428002 (DUP-001)	(2/18/08)	03/04/08	0.962 ± 0.872	(1.76)
0802-1023	893428003 (MER-001)	(2/18/08)	03/04/08	0.183 ± 0.717	(1.69)
0802-1024	893428004 (MER-003)	(2/18/08)	03/04/08	0.902 ± 0.426	(0.681)
0802-1025	893428005 (HMP-004)	(2/18/08)	03/03/08	6.41 ± 1.37	(0.828)
0802-1026	893428006 (HMP-005)	(2/18/08)	03/03/08	2.85 ± 0.725	(0.723)
0802-1027	893428007 (HMP-009)	(2/18/08)	03/03/08	6.84 ± 1.43	(0.785)
0802-1028	Method Blank	(2/21/08)	03/03/08	-0.088 ± 0.731	(1.84)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

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Quality Control Sample Performance Assessment

Test:	Gross Alpha
Analyst:	RMD
Date:	3/6/2008
Worklist:	16168
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.315
M/B Counting Uncertainty:	0.842
MB MDC:	2.021
MB Numerical Performance Indicator:	0.73
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/4/2008	3/4/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.336	93.336
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	46.081	45.225
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	9.612	9.455
Numerical Performance Indicator:	-0.11	-0.29
Percent Recovery:	98.74%	96.91%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS
Duplicate Sample I.D.	LCSD
Sample Result (pCi/L, g, F):	46.081
Sample Result Counting Uncertainty (pCi/L, g, F):	9.612
Sample Duplicate Result (pCi/L, g, F):	45.225
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	9.455
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.124
Duplicate RPD:	1.88%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	2/18/2008
Sample I.D.	0802-1021
Sample MS I.D.	0802-1021MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.336
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	93.336
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.854
Sample Result:	-0.311
Sample Result Counting Uncertainty (pCi/L, g, F):	0.358
Sample Matrix Spike Result:	97.863
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	19.149
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.474
MSD Numerical Performance Indicator:	
MS Percent Recovery:	105.18%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

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Quality Control Sample Performance Assessment

Test:	Gross Beta
Analyst:	RMD
Date:	3/6/2008
Worklist:	16168
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.088
M/B Counting Uncertainty:	0.731
MB MDC:	1.842
MB Numerical Performance Indicator:	-0.24
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/4/2008	3/4/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.726	39.726
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.863	19.863
Uncertainty (Calculated):	0.467	0.467
Result (pCi/L, g, F):	17.469	19.917
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.070	4.477
Numerical Performance Indicator:	-1.15	0.02
Percent Recovery:	87.95%	100.27%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	2/18/2008
Sample I.D.	0802-1021
Sample MS I.D.	0802-1021MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.765
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.765
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.935
Sample Result:	0.100
Sample Result Counting Uncertainty (pCi/L, g, F):	0.716
Sample Matrix Spike Result:	44.357
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	8.980
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.972
MSD Numerical Performance Indicator:	
MS Percent Recovery:	111.30%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS
Duplicate Sample I.D.	LCSD
Sample Result (pCi/L, g, F):	17.469
Sample Result Counting Uncertainty (pCi/L, g, F):	4.070
Sample Duplicate Result (pCi/L, g, F):	19.917
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.477
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.793
Duplicate RPD:	13.10%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

Pace Analytical Inter-Laboratory IRWO / Sub-COC

Inter-Laboratory Work Order # 893428

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 2/19	Sending Project No:	893428
Receiving Region:	Pace-PA	Receiving Project No:	08-0591
State of Sample Origin:	MN	Date IRWO / Sub-COC Prepared:	2/19/08
Sending Project Manager:	TOD NOLTEMEYER	REQUESTED COMPLETION DATE:	3/7/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	7	$ 60.00	$ 420.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 420.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
VGC	33		$ -	$ -
VGCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 420.00	$ 336.00	$ 84.00
Total			$ 336.00	$ 84.00

Sub-COC

P = Poly
G = Glass
AG = Amber Glass

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Client Sample ID	Pace Lab Number	0802-	Collect Date/Time	Matrix	Method	Analyses: Gross Alpha/Beta 900				
FBK-001	893428001	1021	02/18/08	W		X				
DUP-001	893428002	1022	02/18/08	W		X				
MER-001	893428003	1023	02/18/08	W		X				
MER-003	893428004	1024	02/18/08	W		X				
HMP-004	893428005	1025	02/18/08	W		X				
HMP-005	893428006	1026	02/18/08	W		X				
HMP-009	893428007	1027	02/18/08	W		X				

MB - 1028

Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By: Kim Gaudie	Date/Time: 2/21/08
		Receipt Temperature =	10:25

Confirmation of Work Completed By Receiving PM: Date:

DISPOSITION of FORM: When work is completed, copy of Sub-COC/IRWO goes to ABM

BC013a (07June2006)

0000007

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson CO. Project # 893428

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other poly bag

Thermometer Used JB Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 0.0,0.0,0.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2-19-08 cf

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. Nitrate/Nitrite, Turbidity Fe^{2+}, pH, Diss C
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes	☐No	☐N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed cf / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 4/10/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 21808

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other NaOH & Zn

(Please Print Clearly)	
Company Name:	NORTH JACKSON CO
Branch/Location:	MARQUETTE, MI
Project Contact:	SHARON FELIX
Phone:	
Project Number:	
Project Name:	HUMBOLDT MILL
Project State:	MI
Sampled By (Print):	Peter Sayee, Chris Cantway
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	~~JANIS KESY~~ Sharon Felix
Mail To Company:	FOTH I & E
Mail To Address:	GREEN BAY, WI
Invoice To Contact:	SAME AS ABOVE
Invoice To Company:	SAME AS ABOVE
Invoice To Address:	SAME AS ABOVE
Invoice To Phone:	SAME AS ABOVE

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☑ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Alk, Alk2, Cl, F, SO4, TDS, Turb	Nitrate, Nitrite	TSS	Cyanide	Metals/Gross Alpha/Beta	LL Hg	Sulfide	DOC	Ammonia/COD/TOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	Pick Letter				A	A	A	C	D	A	J	C	C			
	Y/N				N	N	N	N	N	N	N	N	N			
001	FBK-001	2/18/08	1300	W	1	1	1	1	2	1	1	1	2	2-500mlpD 1-500mlpA 3-250mlpC,G,J 1-250mlpC 2-4ozagC 1-500mlg		
002	DUP-001	↓	—	W	1	1	1	1	2	1	1	1	2	2-500mlpD 1-literpA 1-500mlgA 4-250mlpA,C,G,S 2-4ozagC		
003	MER-001		1515	W	1	1	1	1	3	1	2	2	3	2-500mlpD 1-literpA 1-500mlgA 5-250mlpJx2,G,A 1-500mlgA 4-4ozagS		
004	MER-003		1430	W	1	1	1	1	2	1	1	1	2	2-500mlpD 1-literpA 1-500mlgA 3-250mlpC,G,S 1-250mlpC 2-4ozagC		
005	~~MER-004~~ HMP-004		1330	W	1	1	1	1	2	1	1	1	2	↓	↓	↓
006	HMP-005		1130	W	1	1	1	1	2	1	1	1	2			
007	HMP-009	↓	1215	W	1	1	1	1	2	1	1	1	2			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/18/08 1800		
Fed Ex	2-19-08 1045	[signature] Pace	2-19-08 1045

PACE Project No. 893428

Receipt Temp = 0.0, 0.0 °C
0.0

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

Batch No. 893476

Pace Analytical®

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 893476

Client: FOTH INFRASTRUCTURE & ENVIRONMENT **Lab Contact:** Tod Noltemeyer

Project Name: HUMBOLDT MILL

Project Number: 06W003

Lab Sample Number	Field ID	Matrix	Collection Date
893476-001	FBK-002	WATER	02/19/08 09:30
893476-002	DUP-002	WATER	02/19/08
893476-003	WBR-001	WATER	02/19/08 10:10
893476-004	EBR-001	WATER	02/19/08 11:00
893476-005	WBR-003	WATER	02/19/08 12:00
893476-006	WLD-001	WATER	02/19/08 14:40
893476-007	WBR-002	WATER	02/19/08 14:00
893476-008	HMP-007	WATER	02/19/08 13:30
893476-009	MER-002	WATER	02/19/08 15:45

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

ACCREDITED IN ACCORDANCE WITH nelac

for Tod N. 4/10/08

Approval Signature **Date**

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : FBK-002

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-001

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	12	B 4.4	50	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Arsenic	0.093	U 0.093	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Barium	0.10	B 0.072	1.0	1	ug/L	A	02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Boron	16	1.1	10	1	ug/L		02/26/08 01:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Calcium	53	B 10	500	1	ug/L	A	02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Chromium	0.43	U 0.43	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cobalt	0.059	U 0.059	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Copper	5.9	0.12	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Hardness	0.15	B 0.15	2.0	1	mg/L		02/25/08 05:00 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Iron	5.6	B 2.9	50	1	ug/L	A	02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lead	0.080	B 0.044	1.0	1	ug/L	A	02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lithium	0.085	U 0.085	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Magnesium	53	U 53	500	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Manganese	0.20	B 0.080	1.0	1	ug/L	A	02/27/08 04:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/27/08 09:27 AM	**Anl By:** MSB	
Mercury - Low Level	0.233	0.163	0.163	1	ng/L		03/03/08 12:11 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	**Anl By:** TLH	
Molybdenum	0.12	U 0.12	10	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Nickel	0.29	B 0.075	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Potassium	6.2	U 6.2	500	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 09:14 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Sodium	370	B 46	500	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : FBK-002

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-001

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.030	U 0.030	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Zinc	20	2.1	10	1	ug/L	A	02/25/08 05:00 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Bicarbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Chloride	2.5	B 1.1	5.0	1	mg/L		02/20/08 08:02 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
COD	11	U 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		**Anl By:** DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:27 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		**Anl By:** DAW
Fluoride	0.059	U 0.059	0.50	1	mg/L		02/20/08 08:02 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/26/08 02:53 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		**Anl By:** DAW
Nitrogen, Nitrate	0.16	B 0.085	0.40	1	mg/L		02/20/08 08:02 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/21/08 08:37 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfate	0.51	U 0.51	4.0	1	mg/L		02/20/08 08:02 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		**Anl By:** DEY
TOC as NPOC	1.4	U 1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
TOC as NPOC - Dissolved	1.4	U 1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
Total Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Total Dissolved Solids	34	12	20	1	mg/L		02/21/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/21/08		**Anl By:** DDY
Total Suspended Solids	0.33	U 0.33	1.1	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		**Anl By:** DDY
Turbidity	0.79	B 0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		**Anl By:** DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		**Anl By:**

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : DUP-002

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-002

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	43	B 4.4	50	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Antimony	0.27	B 0.10	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Arsenic	1.2	0.093	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Barium	11	0.072	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Beryllium	0.13	B 0.070	1.0	1	ug/L		02/26/08 01:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Boron	21	1.1	10	1	ug/L		02/26/08 01:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Calcium	12000	10	500	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Chromium	0.52	B 0.43	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cobalt	2.2	0.059	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Copper	1.0	0.12	1.0	1	ug/L	A	02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Hardness	51	0.15	2.0	1	mg/L		02/25/08 06:29 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Iron	4700	2.9	50	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lead	0.29	B 0.044	1.0	1	ug/L	A	02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lithium	1.1	0.085	1.0	1	ug/L		02/26/08 01:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Magnesium	5200	53	500	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Manganese	1300	0.080	1.0	1	ug/L	A	02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Mercury - Low Level	1.86	0.163	0.500	1	ng/L		03/03/08 12:25 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	**Anl By:** TLH	
Molybdenum	0.48	B 0.12	10	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Nickel	2.9	0.075	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Potassium	1600	6.2	500	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 09:02 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Sodium	16000	46	500	1	ug/L		02/26/08 01:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	

Pace Analytical Services, Inc.

Analytical Report Number: 893476

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : DUP-002

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-002

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.21	B 0.030	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Zinc	11	2.1	10	1	ug/L	A	02/25/08 06:29 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Bicarbonate Alkalinity	36	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Chloride	36	1.1	5.0	1	mg/L	N	02/20/08 08:16 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
COD	42	B 11	53	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		**Anl By:** DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L	N	02/22/08 01:28 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		**Anl By:** DAW
Fluoride	0.20	B 0.059	0.50	1	mg/L		02/21/08 02:03 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/26/08 02:54 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		**Anl By:** DAW
Nitrogen, Nitrate	0.16	B 0.085	0.40	1	mg/L		02/20/08 08:16 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L	N	02/21/08 08:51 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfate	13	0.51	4.0	1	mg/L		02/20/08 08:16 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		**Anl By:** DEY
TOC as NPOC	14	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
TOC as NPOC - Dissolved	15	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
Total Alkalinity	36	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Total Dissolved Solids	140	12	20	1	mg/L		02/21/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/21/08		**Anl By:** DDY
Total Suspended Solids	6.2	0.61	2.0	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		**Anl By:** DDY
Turbidity	14	0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		**Anl By:** DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		**Anl By:**

Pace Analytical Services, Inc.

1241 Bellevue Street
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920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : WBR-001

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-003

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	210	4.4	50	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Arsenic	0.98	B 0.093	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Barium	11	0.072	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/26/08 01:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Boron	7.9	B 1.1	10	1	ug/L		02/26/08 01:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Calcium	6100	10	500	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Chromium	0.57	B 0.43	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cobalt	0.34	B 0.059	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Copper	0.53	B 0.12	1.0	1	ug/L	A	02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Hardness	25	0.15	2.0	1	mg/L		02/25/08 06:41 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Iron	1900	2.9	50	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lead	0.71	B 0.044	1.0	1	ug/L	A	02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lithium	0.57	B 0.085	1.0	1	ug/L		02/26/08 01:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Magnesium	2500	53	500	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Manganese	120	0.080	1.0	1	ug/L	A	02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Mercury - Low Level	6.16	0.163	0.500	1	ng/L		03/03/08 12:30 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	**Anl By:** TLH	
Molybdenum	0.12	U 0.12	10	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Nickel	0.71	B 0.075	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Potassium	540	6.2	500	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 09:20 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Sodium	8300	46	500	1	ug/L		02/26/08 01:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	

Pace Analytical Services, Inc.

1241 Bellevue Street
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Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : WBR-001

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-003

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.070	B 0.030	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Vanadium	0.68	B 0.41	1.0	1	ug/L		02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Zinc	9.8	B 2.1	10	1	ug/L	A	02/25/08 06:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Bicarbonate Alkalinity	6.7	B 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Chloride	20	1.1	5.0	1	mg/L		02/20/08 08:59 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
COD	93	11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		**Anl By:** DEY
Cyanide, Total	0.0098	B 0.0060	0.020	1	mg/L		02/27/08 12:42 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/27/08 08:22 AM		**Anl By:** DAW
Fluoride	0.059	U 0.059	0.50	1	mg/L		02/20/08 08:59 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/26/08 02:55 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		**Anl By:** DAW
Nitrogen, Nitrate	0.18	B 0.085	0.40	1	mg/L		02/20/08 08:59 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/21/08 09:33 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfate	8.3	0.51	4.0	1	mg/L		02/20/08 08:59 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		**Anl By:** DEY
TOC as NPOC	32	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
TOC as NPOC - Dissolved	36	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
Total Alkalinity	6.7	B 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Total Dissolved Solids	140	12	20	1	mg/L		02/22/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/22/08		**Anl By:** DDY
Total Suspended Solids	1.1	B 0.68	2.2	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		**Anl By:** DDY
Turbidity	1.9	0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		**Anl By:** DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		**Anl By:**

Pace Analytical Services, Inc.

1241 Bellevue Street
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Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : EBR-001

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-004

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	22	B 4.4	50	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Arsenic	0.32	B 0.093	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Barium	4.9	0.072	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/26/08 02:05 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Boron	14	1.1	10	1	ug/L		02/26/08 02:05 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Calcium	11000	10	500	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Chromium	0.71	B 0.43	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cobalt	0.060	B 0.059	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Copper	0.43	B 0.12	1.0	1	ug/L	A	02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Hardness	47	0.15	2.0	1	mg/L		02/25/08 06:47 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Iron	480	2.9	50	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lead	0.25	B 0.044	1.0	1	ug/L	A	02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lithium	0.96	B 0.085	1.0	1	ug/L		02/26/08 02:05 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Magnesium	4500	53	500	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Manganese	61	0.080	1.0	1	ug/L	A	02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Mercury - Low Level	1.01	0.163	0.500	1	ng/L		03/03/08 12:35 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	**Anl By:** TLH	
Molybdenum	0.67	B 0.12	10	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Nickel	1.0	0.075	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Potassium	1500	6.2	500	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 09:26 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Sodium	1400	46	500	1	ug/L		02/26/08 02:05 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	

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Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : EBR-001

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-004

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.030	U 0.030	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Zinc	7.3	B 2.1	10	1	ug/L	A	02/25/08 06:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Bicarbonate Alkalinity	49	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Chloride	3.2	B 1.1	5.0	1	mg/L		02/20/08 09:13 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
COD	40	B 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		**Anl By:** DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:33 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		**Anl By:** DAW
Fluoride	0.25	B 0.059	0.50	1	mg/L		02/21/08 04:39 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/26/08 02:56 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		**Anl By:** DAW
Nitrogen, Nitrate	0.15	B 0.085	0.40	1	mg/L		02/20/08 09:13 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/21/08 09:47 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfate	4.5	0.51	4.0	1	mg/L		02/20/08 09:13 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		**Anl By:** DEY
TOC as NPOC	7.6	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
TOC as NPOC - Dissolved	11	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
Total Alkalinity	49	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Total Dissolved Solids	76	12	20	1	mg/L		02/22/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/22/08		**Anl By:** DDY
Total Suspended Solids	1.2	B 0.61	2.0	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		**Anl By:** DDY
Turbidity	2.5	0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		**Anl By:** DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		**Anl By:**

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Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : WBR-003

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-005

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	38	B 4.4	50	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Arsenic	1.1	0.093	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Barium	11	0.072	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/26/08 02:11 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Boron	14	1.1	10	1	ug/L		02/26/08 02:11 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Calcium	12000	10	500	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Chromium	0.53	B 0.43	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cobalt	2.1	0.059	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Copper	0.66	B 0.12	1.0	1	ug/L	A	02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Hardness	52	0.15	2.0	1	mg/L		02/25/08 06:53 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Iron	4900	2.9	50	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lead	0.24	B 0.044	1.0	1	ug/L	A	02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lithium	1.0	0.085	1.0	1	ug/L		02/26/08 02:11 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Magnesium	5300	53	500	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Manganese	1300	0.080	1.0	1	ug/L	A	02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Mercury - Low Level	2.04	0.163	0.500	1	ng/L		03/03/08 12:40 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	**Anl By:** TLH	
Molybdenum	0.21	B 0.12	10	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Nickel	3.0	0.075	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Potassium	1600	6.2	500	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 09:32 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Sodium	16000	46	500	1	ug/L		02/26/08 02:11 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	

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Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : WBR-003

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-005

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.070	B 0.030	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Zinc	15	2.1	10	1	ug/L	A	02/25/08 06:53 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		**Anl By:** MSB
Bicarbonate Alkalinity	33	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Chloride	36	1.1	5.0	1	mg/L		02/20/08 09:27 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
COD	58	11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		**Anl By:** DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/27/08 12:43 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/27/08 08:22 AM		**Anl By:** DAW
Fluoride	0.21	B 0.059	0.50	1	mg/L		02/21/08 04:53 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/26/08 02:56 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		**Anl By:** DAW
Nitrogen, Nitrate	0.15	B 0.085	0.40	1	mg/L		02/20/08 09:27 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/21/08 10:02 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfate	13	0.51	4.0	1	mg/L		02/20/08 09:27 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		**Anl By:** GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		**Anl By:** DEY
TOC as NPOC	14	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
TOC as NPOC - Dissolved	15	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		**Anl By:** GM
Total Alkalinity	33	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		**Anl By:** DEY
Total Dissolved Solids	140	12	20	1	mg/L		02/22/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/22/08		**Anl By:** DDY
Total Suspended Solids	6.0	0.61	2.0	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		**Anl By:** DDY
Turbidity	13	0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		**Anl By:** DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		**Anl By:**

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Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : WLD-001

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-006

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	6.8	B 4.4	50	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Arsenic	0.21	B 0.093	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Barium	8.8	0.072	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/26/08 02:17 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Boron	48	1.1	10	1	ug/L		02/26/08 02:17 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Calcium	24000	10	500	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Chromium	0.43	U 0.43	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cobalt	2.5	0.059	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Copper	1.5	0.12	1.0	1	ug/L	A	02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Hardness	100	0.15	2.0	1	mg/L		02/25/08 06:59 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Iron	1800	2.9	50	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lead	0.11	B 0.044	1.0	1	ug/L	A	02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lithium	1.6	0.085	1.0	1	ug/L		02/26/08 02:17 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Magnesium	10000	53	500	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Manganese	2200	0.080	1.0	1	ug/L	A	02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Mercury - Low Level	0.918	0.163	0.500	1	ng/L		03/03/08 01:04 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	**Anl By:** TLH	
Molybdenum	0.23	B 0.12	10	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Nickel	3.7	0.075	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Potassium	3000	6.2	500	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 09:38 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Sodium	2200	46	500	1	ug/L		02/26/08 02:17 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	

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Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : WLD-001

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-006

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.030	U 0.030	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Zinc	6.4	B 2.1	10	1	ug/L	A	02/25/08 06:59 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Bicarbonate Alkalinity	110	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	3.2	B 1.1	5.0	1	mg/L		02/20/08 09:41 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	26	B 11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:37 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		Anl By: DAW
Fluoride	0.38	B 0.059	0.50	1	mg/L		02/21/08 05:07 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/26/08 02:57 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		Anl By: DAW
Nitrogen, Nitrate	0.21	B 0.085	0.40	1	mg/L		02/20/08 09:41 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/21/08 10:16 AM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	14	0.51	4.0	1	mg/L		02/20/08 09:41 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	5.0	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
TOC as NPOC - Dissolved	5.6	1.4	2.0	1	mg/L		02/28/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
Total Alkalinity	110	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	130	12	20	1	mg/L		02/22/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/22/08		Anl By: DDY
Total Suspended Solids	3.2	0.61	2.0	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		Anl By: DDY
Turbidity	6.8	0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

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1241 Bellevue Street
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920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : WBR-002

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-007

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	57	4.4	50	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Arsenic	1.9	0.093	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Barium	16	0.072	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/26/08 02:23 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Boron	14	1.1	10	1	ug/L		02/26/08 02:23 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Calcium	11000	10	500	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Chromium	0.72	B 0.43	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cobalt	1.9	0.059	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Copper	0.62	B 0.12	1.0	1	ug/L	A	02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Hardness	48	0.15	2.0	1	mg/L		02/25/08 07:39 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Iron	10000	2.9	50	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lead	0.24	B 0.044	1.0	1	ug/L	A	02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lithium	1.2	0.085	1.0	1	ug/L		02/26/08 02:23 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Magnesium	4900	53	500	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Manganese	1200	0.080	1.0	1	ug/L	A	02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Mercury - Low Level	2.74	0.163	0.500	1	ng/L		03/03/08 01:17 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	**Anl By:** TLH	
Molybdenum	0.27	B 0.12	10	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Nickel	2.2	0.075	1.0	1	ug/L		02/26/08 02:23 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Potassium	2100	6.2	500	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 09:56 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Sodium	23000	46	500	1	ug/L		02/26/08 02:23 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	

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1241 Bellevue Street
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920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : WBR-002

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-007

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.12	B 0.030	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Vanadium	0.41	U 0.41	1.0	1	ug/L		02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Zinc	8.8	B 2.1	10	1	ug/L	A	02/25/08 07:39 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Bicarbonate Alkalinity	29	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	51	1.1	5.0	1	mg/L		02/20/08 10:24 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	73	11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:38 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		Anl By: DAW
Fluoride	0.059	U 0.059	0.50	1	mg/L		02/20/08 10:24 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/26/08 02:58 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		Anl By: DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L		02/20/08 10:24 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/20/08 05:54 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	8.4	0.51	4.0	1	mg/L		02/20/08 10:24 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	20	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
TOC as NPOC - Dissolved	25	1.4	2.0	1	mg/L		02/29/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
Total Alkalinity	29	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	160	12	20	1	mg/L		02/22/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/22/08		Anl By: DDY
Total Suspended Solids	8.6	0.61	2.0	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		Anl By: DDY
Turbidity	10	0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

Pace Analytical Services, Inc.

1241 Bellevue Street
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920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : HMP-007

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-008

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	230	4.4	50	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Antimony	0.15	B 0.10	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Arsenic	16	0.093	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Barium	44	0.072	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/26/08 02:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Boron	18	1.1	10	1	ug/L		02/27/08 02:10 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Calcium	12000	10	500	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Chromium	1.9	0.43	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Cobalt	1.6	0.059	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Copper	1.9	0.12	1.0	1	ug/L	A	02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Hardness	50	0.15	2.0	1	mg/L		02/25/08 07:45 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Iron	36000	2.9	50	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Lead	1.1	0.044	1.0	1	ug/L	A	02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Lithium	0.20	B 0.085	1.0	1	ug/L		02/27/08 02:10 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Magnesium	4900	53	500	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Manganese	1600	0.080	1.0	1	ug/L	A	02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Mercury - Low Level	5.20	0.163	0.500	1	ng/L		03/03/08 01:21 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	Anl By: TLH	
Molybdenum	1.4	B 0.12	10	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Nickel	1.3	0.075	1.0	1	ug/L		02/26/08 02:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Potassium	1900	6.2	500	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 10:02 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	
Sodium	18000	46	500	1	ug/L		02/26/08 02:41 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	Anl By: MSB	

Pace Analytical Services, Inc.

1241 Bellevue Street
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920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : HMP-007

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-008

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.12	B 0.030	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Vanadium	3.5	0.41	1.0	1	ug/L		02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Zinc	10	2.1	10	1	ug/L	A	02/25/08 07:45 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Bicarbonate Alkalinity	53	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	38	1.1	5.0	1	mg/L		02/20/08 10:38 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	84	11	50	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/22/08 01:39 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/22/08 09:30 AM		Anl By: DAW
Fluoride	0.41	B 0.059	0.50	1	mg/L		02/21/08 05:21 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.80	B 0.50	1.0	1	mg/L		02/26/08 03:01 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		Anl By: DAW
Nitrogen, Nitrate	0.085	U 0.085	0.40	1	mg/L		02/20/08 10:38 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/20/08 06:08 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	0.51	U 0.51	4.0	1	mg/L		02/20/08 10:38 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	3.2	B 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	17	1.4	2.0	1	mg/L		03/05/08	SM 5310C	SM 5310C
							Prep Date/Time: 03/05/08 11:36 AM		Anl By: GM
TOC as NPOC - Dissolved	18	1.4	2.0	1	mg/L		02/29/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
Total Alkalinity	53	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	130	12	20	1	mg/L		02/22/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/22/08		Anl By: DDY
Total Suspended Solids	95	1.4	4.7	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		Anl By: DDY
Turbidity	48	0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : MER-002

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-009

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Aluminum	62	4.4	50	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Antimony	0.10	U 0.10	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Arsenic	1.0	0.093	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Barium	8.3	0.072	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Beryllium	0.070	U 0.070	1.0	1	ug/L		02/26/08 02:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Boron	7.3	B 1.1	10	1	ug/L		02/27/08 02:16 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cadmium	0.097	U 0.097	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Calcium	9700	10	500	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Chromium	0.43	B 0.43	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Cobalt	0.30	B 0.059	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Copper	0.49	B 0.12	1.0	1	ug/L	A	02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Hardness	35	0.15	2.0	1	mg/L		02/25/08 07:51 PM	SW846 3020A	6020/2340B
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Iron	1500	2.9	50	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lead	0.30	B 0.044	1.0	1	ug/L	A	02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Lithium	0.58	B 0.085	1.0	1	ug/L		02/27/08 02:16 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Magnesium	2500	53	500	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Manganese	95	0.080	1.0	1	ug/L	A	02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Mercury - Low Level	2.26	0.163	0.500	1	ng/L		03/03/08 01:41 PM	EPA 1631E	EPA 1631E
							Prep Date/Time: 02/29/08 03:00 PM	**Anl By:** TLH	
Molybdenum	0.21	B 0.12	10	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Nickel	0.71	B 0.075	1.0	1	ug/L		02/26/08 02:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Potassium	610	6.2	500	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Selenium	0.15	U 0.15	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Silver	0.11	U 0.11	0.50	1	ug/L		02/26/08 10:08 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	
Sodium	3800	46	500	1	ug/L		02/26/08 02:47 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM	**Anl By:** MSB	

Pace Analytical Services, Inc.

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Analytical Report Number: 893476

Client : FOTH INFRASTRUCTURE & ENVIRONMENT
Project Name : HUMBOLDT MILL
Project Number : 06W003
Field ID : MER-002

Matrix Type : WATER
Collection Date : 02/19/08
Report Date : 03/11/08
Lab Sample Number : 893476-009

INORGANICS

Test	Result	MDL	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
Thallium	0.040	B 0.030	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Vanadium	0.54	B 0.41	1.0	1	ug/L		02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Zinc	5.9	B 2.1	10	1	ug/L	A	02/25/08 07:51 PM	SW846 3020A	SW846 6020
							Prep Date/Time: 02/25/08 08:25 AM		Anl By: MSB
Bicarbonate Alkalinity	27	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Carbonate Alkalinity	3.2	U 3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Chloride	7.8	1.1	5.0	1	mg/L		02/20/08 10:52 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
COD	30	B 11	53	1	mg/L		02/21/08	EPA 410.4	EPA 410.4
							Prep Date/Time:		Anl By: DEY
Cyanide, Total	0.0060	U 0.0060	0.020	1	mg/L		02/27/08 12:43 PM	EPA 335.4	EPA 335.4
							Prep Date/Time: 02/27/08 08:22 AM		Anl By: DAW
Fluoride	0.059	U 0.059	0.50	1	mg/L		02/21/08 05:35 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Ammonia	0.50	U 0.50	1.0	1	mg/L		02/26/08 03:02 PM	EPA 350.1	EPA 350.1
							Prep Date/Time: 02/26/08 08:27 AM		Anl By: DAW
Nitrogen, Nitrate	0.41	0.085	0.40	1	mg/L		02/20/08 10:52 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Nitrogen, Nitrite	0.036	U 0.036	0.10	1	mg/L		02/20/08 06:23 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfate	10	0.51	4.0	1	mg/L		02/20/08 10:52 PM	EPA 300.0	EPA 300.0
							Prep Date/Time:		Anl By: GLH
Sulfide	2.3	U 2.3	5.0	1	mg/L		02/21/08	SM 4500-S2 F	SM 4500-S2 F
							Prep Date/Time:		Anl By: DEY
TOC as NPOC	9.5	1.4	2.0	1	mg/L		02/26/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
TOC as NPOC - Dissolved	9.7	1.4	2.0	1	mg/L		02/29/08	SM 5310C	SM 5310C
							Prep Date/Time: 02/22/08 01:49 PM		Anl By: GM
Total Alkalinity	27	3.2	10	1	mg/L		02/22/08	SM 2320B	SM 2320B
							Prep Date/Time:		Anl By: DEY
Total Dissolved Solids	76	12	20	1	mg/L		02/22/08	SM 2540C	SM 2540C
							Prep Date/Time: 02/22/08		Anl By: DDY
Total Suspended Solids	1.6	B 0.61	2.0	1	mg/L		02/22/08	SM 2540D	SM 2540D
							Prep Date/Time: 02/22/08		Anl By: DDY
Turbidity	5.1	0.44	1.0	1	NTU		02/21/08 08:50 AM	SM 2130B	SM 2130B
							Prep Date/Time: 02/21/08 08:50 AM		Anl By: DEY
Gross Alpha & Beta	INCL.								
							Prep Date/Time:		Anl By:

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Lab Number	TestGroupID	Field ID	Comment
893476	M-BA-W	All Samples	A - Analyte is detected in the method blank at a concentration of 0.11 ug/L.
893476	M-CA-W	All Samples	A - Analyte is detected in the method blank at a concentration of 19 ug/L.
893476	M-CU-W	All Samples	A - Analyte is detected in the method blank at a concentration of 0.17 ug/L.
893476	M-FE-W	All Samples	A - Analyte is detected in the method blank at a concentration of 9.9 ug/L.
893476	M-MN-W	All Samples	A - Analyte is detected in the method blank at a concentration of 1.0 ug/L. The concentration in the sample is at least 20X greater than the method blank concentration.
893476	M-PB-W	All Samples	A - Analyte is detected in the method blank at a concentration of 0.09 ug/L.
893476	M-ZN-W	All Samples	A - Analyte is detected in the method blank at a concentration of 4.5 ug/L.
893476-001	M-MN-W	FBK-002	A - Analyte is detected in the method blank at a concentration of 0.50 ug/L.

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	893476-001	893476-002	893476-003	893476-004	893476-005	893476-006	893476-007	893476-008	893476-009
ALKALINITY, BICARB/CARB/TOTAL	B	B	B	B	B	B	B	B	B
ALUMINUM	B	B	B	B	B	B	B	B	B
ANTIMONY	B	B	B	B	B	B	B	B	B
ARSENIC	B	B	B	B	B	B	B	B	B
BARIUM	B	B	B	B	B	B	B	B	B
BERYLLIUM	B	B	B	B	B	B	B	B	B
BORON	B	B	B	B	B	B	B	B	B
CADMIUM	B	B	B	B	B	B	B	B	B
CALCIUM	B	B	B	B	B	B	B	B	B
CHLORIDE	B	B	B	B	B	B	B	B	B
CHROMIUM	B	B	B	B	B	B	B	B	B
COBALT	B	B	B	B	B	B	B	B	B
COD	B	B	B	B	B	B	B	B	B
COPPER	B	B	B	B	B	B	B	B	B
CYANIDE, TOTAL	B	B	B	B	B	B	B	B	B
FLUORIDE	B	B	B	B	B	B	B	B	B
HARDNESS	B	B	B	B	B	B	B	B	B
IRON	B	B	B	B	B	B	B	B	B
LEAD	B	B	B	B	B	B	B	B	B
LITHIUM	B	B	B	B	B	B	B	B	B
MAGNESIUM	B	B	B	B	B	B	B	B	B
MANGANESE	B	B	B	B	B	B	B	B	B
MERCURY - LOW LEVEL	B	B	B	B	B	B	B	B	B
MOLYBDENUM	B	B	B	B	B	B	B	B	B
NICKEL	B	B	B	B	B	B	B	B	B
NITROGEN, AMMONIA	B	B	B	B	B	B	B	B	B
NITROGEN, NITRATE	B	B	B	B	B	B	B	B	B
NITROGEN, NITRITE	B	B	B	B	B	B	B	B	B
POTASSIUM	B	B	B	B	B	B	B	B	B
SAS	C	C	C	C	C	C	C	C	C
SELENIUM	B	B	B	B	B	B	B	B	B
SILVER	B	B	B	B	B	B	B	B	B
SODIUM	B	B	B	B	B	B	B	B	B
SOLIDS, TOTAL DISSOLVED	B	B	B	B	B	B	B	B	B
SOLIDS, TOTAL SUSPENDED	B	B	B	B	B	B	B	B	B
SULFATE	B	B	B	B	B	B	B	B	B
SULFIDE	B	B	B	B	B	B	B	B	B
THALLIUM	B	B	B	B	B	B	B	B	B
TOC AS NPOC	B	B	B	B	B	B	B	B	B
TOC AS NPOC - DISSOLVED	B	B	B	B	B	B	B	B	B

Pace Analytical Services, Inc.

Analysis Summary by Laboratory

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Test Group Name	893476-001	893476-002	893476-003	893476-004	893476-005	893476-006	893476-007	893476-008	893476-009
TURBIDITY	B	B	B	B	B	B	B	B	B
VANADIUM	B	B	B	B	B	B	B	B	B
ZINC	B	B	B	B	B	B	B	B	B

Code	MI Certification
B	Not Certified
C	See Report

Pace Analytical Services, Inc.

QC Summary

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Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Batch Number: 893476
Lab Section: METALS
QC Batch Number: 29077
Prep Method: EPA 1631E
Analytical Method: EPA 1631E

QC Type	Client Sample ID	Lab Sample ID
MB	MBWMTG2414-021	MBWMTG2414-021
MB2	MB2WMTG2414-021	MB2WMTG2414-021
MB3	MB3WMTG2414-021	MB3WMTG2414-021
IPR	IPRWMTG2414-021	IPRWMTG2414-021
OPR	OPRWMTG2414-021	OPRWMTG2414-021
MS	893498-001MS	893498-001MS
MS	HMP-007MS	893476-008MS
MS	WBR-001MS	893476-003MS
MSD	893498-001MSD	893498-001MSD
MSD	HMP-007MSD	893476-008MSD
MSD	WBR-001MSD	893476-003MSD

Client Sample ID	Lab Sample ID	Client Sample ID	Lab Sample ID
FBK-002	893476-001	DUP-002	893476-002
WBR-001	893476-003	EBR-001	893476-004
WBR-003	893476-005	WLD-001	893476-006
WBR-002	893476-007	HMP-007	893476-008
MER-002	893476-009		

Test Name	Method Blank Result Conc	Method Blank 2 Result Conc	Method Blank 3 Result Conc	IPR/OPR Spiked Conc	IPR Recovery Conc	IPR Recovery %	OPR Recovery Conc	OPR Recovery %	IPR/OPR Control Limits LCL %	IPR/OPR Control Limits UCL %	Parent Sample Number	Parent Result Conc	MS Spiked Conc	MS Recovery Conc	MS Recovery %	C	MSD Spiked Conc	MSD Recovery Conc	MSD Recovery %	C	MS/MSD RPD %	C	MS/MSD Control Limits LCL %	MS/MSD Control Limits UCL %	MS/MSD Control Limits RPD %
Mercury - Low Level	0.244	0.2833	0.2956	5	4.797	95.9	4.804	96.1	79	121	893476-003	6.16	20.0	26	99.1		20.0	25.2	95.3		2.9		75	125	24
Mercury - Low Level											893476-008	5.20	20.0	24.4	96.1		20.0	24.1	94.3		1.5		75	125	24
Mercury - Low Level											893498-001	0.50	2.0	2.5	100.9		2.0	2.4	96.4		3.6		75	125	24

Conc = ng/L unless otherwise noted
C = QC Code, see Qualifer Sheet
Parent Result is reported down to MDL in order to allow Validation of this worksheet
The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 3/11/2008
QC Batch Number: 29077

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Madison, PA 15663
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Fax: 724.722.5208

March 6, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
893476 Foth & Van Dyke
Pace Project No. 08-0906

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received and logged in for analysis on February 22, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:tew

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-0906
CLIENT: 893476 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0802-1057	893476001 (FBK-002)	0802-1058	893476002 (DUP-002)
0802-1059	893476003 (WBR-001)	0802-1060	893476004 (EBR-001)
0802-1061	893476005 (WBR-003)	0802-1062	893476006 (WLD-001)
0802-1063	893476007 (WBR-002)	0802-1064	893476008 (HMP-007)
0802-1065	893476009 (MER-002)		

C: SHIPPING/RECEIVING COMMENTS:

Final Report 03-06-08.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

000003

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-0906
Groundwater Characterization; 893476 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Analyzed	Act ± Unc	(MDC)
0802-1057	893476001 (FBK-002)	(2/19/08)	03/04/08	0.104 ± 0.232	(0.467)
0802-1058	893476002 (DUP-002)	(2/19/08)	03/04/08	0.582 ± 0.454	(0.781)
0802-1059	893476003 (WBR-001)	(2/19/08)	03/04/08	0.387 ± 0.344	(0.605)
0802-1060	893476004 (EBR-001)	(2/19/08)	03/04/08	-0.025 ± 0.301	(0.658)
0802-1061	893476005 (WBR-003)	(2/19/08)	03/04/08	0.373 ± 0.375	(0.679)
0802-1062	893476006 (WLD-001)	(2/19/08)	03/05/08	-0.266 ± 0.330	(1.56)
0802-1063	893476007 (WBR-002)	(2/19/08)	03/05/08	0.439 ± 0.696	(1.48)
0802-1064	893476008 (HMP-007)	(2/19/08)	03/05/08	2.95 ± 1.55	(1.74)
0802-1065	893476009 (MER-002)	(2/19/08)	03/05/08	0.874 ± 0.931	(1.79)
0802-1066	Method Blank	(2/22/08)	03/03/08	0.315 ± 0.842	(2.02)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

700004

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0802-1057	893476001 (FBK-002)	(2/19/08)	03/04/08	0.555 ± 0.389	(0.693)
0802-1058	893476002 (DUP-002)	(2/19/08)	03/04/08	1.45 ± 0.512	(0.722)
0802-1059	893476003 (WBR-001)	(2/19/08)	03/04/08	0.731 ± 0.464	(0.814)
0802-1060	893476004 (EBR-001)	(2/19/08)	03/04/08	1.33 ± 0.490	(0.715)
0802-1061	893476005 (WBR-003)	(2/19/08)	03/04/08	1.80 ± 0.576	(0.766)
0802-1062	893476006 (WLD-001)	(2/19/08)	03/05/08	3.93 ± 1.42	(1.94)
0802-1063	893476007 (WBR-002)	(2/19/08)	03/05/08	1.55 ± 0.966	(1.72)
0802-1064	893476008 (HMP-007)	(2/19/08)	03/05/08	4.34 ± 1.50	(1.78)
0802-1065	893476009 (MER-002)	(2/19/08)	03/05/08	1.54 ± 0.982	(1.78)
0802-1066	Method Blank	(2/22/08)	03/03/08	-0.088 ± 0.731	(1.84)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

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Quality Control Sample Performance Assessment

Test:	Gross Alpha
Analyst:	RMD
Date:	3/6/2008
Worklist:	16168
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.315
M/B Counting Uncertainty:	0.842
MB MDC:	2.021
MB Numerical Performance Indicator:	0.73
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/4/2008	3/4/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.336	93.336
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	46.081	45.225
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	9.612	9.455
Numerical Performance Indicator:	-0.11	-0.29
Percent Recovery:	98.74%	96.91%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS
Duplicate Sample I.D.	LCSD
Sample Result (pCi/L, g, F):	46.081
Sample Result Counting Uncertainty (pCi/L, g, F):	9.612
Sample Duplicate Result (pCi/L, g, F):	45.225
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	9.455
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.124
Duplicate RPD:	1.88%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	2/18/2008
Sample I.D.	0802-1021
Sample MS I.D.	0802-1021MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.336
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	93.336
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.854
Sample Result:	-0.311
Sample Result Counting Uncertainty (pCi/L, g, F):	0.358
Sample Matrix Spike Result:	97.863
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	19.149
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.474
MSD Numerical Performance Indicator:	
MS Percent Recovery:	105.18%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

QA 3/7/08

Quality Control Sample Performance Assessment

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Test:	Gross Beta
Analyst:	RMD
Date:	3/6/2008
Worklist:	16168
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.088
M/B Counting Uncertainty:	0.731
MB MDC:	1.842
MB Numerical Performance Indicator:	-0.24
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/4/2008	3/4/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.726	39.726
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.863	19.863
Uncertainty (Calculated):	0.467	0.467
Result (pCi/L, g, F):	17.469	19.917
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.070	4.477
Numerical Performance Indicator:	-1.15	0.02
Percent Recovery:	87.95%	100.27%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS
Duplicate Sample I.D.	LCSD
Sample Result (pCi/L, g, F):	17.469
Sample Result Counting Uncertainty (pCi/L, g, F):	4.070
Sample Duplicate Result (pCi/L, g, F):	19.917
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.477
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.793
Duplicate RPD:	13.10%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	2/18/2008
Sample I.D.	0802-1021
Sample MS I.D.	0802-1021MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.765
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.765
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.935
Sample Result:	0.100
Sample Result Counting Uncertainty (pCi/L, g, F):	0.716
Sample Matrix Spike Result:	44.357
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	8.980
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.972
MSD Numerical Performance Indicator:	
MS Percent Recovery:	111.30%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

3/7/08

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 2/20	Sending Project No:	893476
Receiving Region:	Pace-PA	Receiving Project No:	08-0404
State of Sample Origin:	MI	Date IRWO / Sub-COC Prepared:	2/20/08
Sending Project Manager:	TOD NOLTEMEYER	REQUESTED COMPLETION DATE:	3/7/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	9	$ 60.00	$ 540.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 540.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 540.00	$ 432.00	$ 108.00
Total			$ 432.00	$ 108.00

P = Poly
G = Glass
AG = Amber Glass

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Sub-COC

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				

Client Sample ID	Pace Lab Number (0802 –)	Collect Date/Time	Matrix	Method	Analyses: Gross Alpha/Beta 900				
FBK-002	893476001 1057	02/19/08	W		X				
DUP-002	893476002 1058	02/19/08	W		X				
WBR-001	893476003 1059	02/19/08	W		X				
EBR-001	893476004 1060	02/19/08	W		X				
WBR-003	893476005 1061	02/19/08	W		X				
WLD-001	893476006 1062	02/19/08	W		X				
WBR-002	893476007 1063	02/19/08	W		X				
HMP-007	893476008 1064	02/19/08	W		X				
MER-002	893476009 1065	02/19/08	W		X				

Relinquished By: [signature] MB - 1066 Date/Time: 2-21-08 1600 Received By: [signature] Date/Time:

Relinquished By: Date/Time: Received By: [signature] Date/Time: 2/22/08 10:50

Receipt Temperature =

Confirmation of Work Completed By Receiving PM: Date:

DISPOSITION of FORM: When work is completed, copy of Sub-COC/IRWO goes to ABM

GBC013a (07June2006)

0000007

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson Project # 693476

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB Type of Ice: ~~Wet~~ Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.1, 5.2, 2 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2/20/08 AB

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	6. Ph, turbidity, NO2, NO3
Rush Turn Around Time Requested:	☐Yes	☐No	☐N/A	7.
Sufficient Volume:	☐Yes	☒No	☐N/A	8. ~~N~~ AB 1-500ml for 002 spilled into cooler...
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☒Yes	☐No	☐N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes	☐No	☐N/A	12.
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed AB / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☐Yes	☒No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: S cont... bc cap was not intact 2/20/08 AB

Project Manager Review: DH **Date:** 4/10/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

COC No. ~~2-19-2008~~ 2190

(Please Print Clearly)	
Company Name:	NORTH JACKSON CO
Branch/Location:	MARQUETTE, MI
Project Contact:	SHARON FELIX
Phone:	
Project Number:	
Project Name:	HUMBOLDT MILL
Project State:	MI
Sampled By (Print):	Chris Cantway, Andy Marcelini
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	~~JANIS KESY~~ Sharon Felix
Mail To Company:	FOTH I & E
Mail To Address:	GREEN BAY, WI
Invoice To Contact:	SAME AS ABOVE
Invoice To Company:	SAME AS ABOVE
Invoice To Address:	SAME AS ABOVE
Invoice To Phone:	SAME AS ABOVE

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other ZNAC NaOH

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☑ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	Alk, Alk2, Cl, FL, SO4, TDS, Turb	Nitrate, Nitrite	TSS	Cyanide	Metals / Gross Alpha/Beta	Hg	Sulfide	TOC	Ammonia/COD/TOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	FILTERED? (YES/NO)				Y/N	N	N	N	N	N	N	N	Y	N			
	PRESERVATION (CODE)*				Pick Letter	A	A	A	G	D	A	J	C	C			
001	FBK-002	2/19/08	0930	SW		1	1	1	1	2	1	1	1	2	HLPDW, 3-500ml AND	4-250ml AE&GJ, 1-500ml Mg, 2-125ml	
002	DUP-002	2/19/08				1	1	1	1	2	1	1	1	2	2-500ml AND		
003	WBR-001	2/19/08	1010			1	1	1	1	2	1	1	1	2	3-500ml AND		
004	EBR-001		1100			1	1	1	1	2	1	1	1	2			
005	WBR-003		1200			1	1	1	1	2	1	1	1	2			
006	WLD-001		1440			1	1	1	1	2	1	1	1	2			
007	WBR-002		1400			1	1	1	1	2	1	1	1	2			
008	HMP-007		1330			1	1	1	1	2	1	1	1	2			
009	MER-002		1545			1	1	1	1	2	1	2	2	3	5-250ml AE&GJ	4-125ml Mg AE	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability.

Relinquished By:	Date/Time:	Received By:	Date/Time:
	~~2/19~~ 2/19/08 1800		
FedEx	2-20-08 1030	Pace	2-20-08 1030

PACE Project No. 893476
Receipt Temp = 1.0, 1.5 °C 2.0 2.0
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

Batch No. 401155

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

March 20, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on February 29, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

[illegible] for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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nelac

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CERTIFICATIONS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Green Bay Certification IDs
Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs
Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Lab ID	Sample ID	Matrix	Date Collected	Date Received
401155001	**HPL-003 3'**	Water	02/28/08 13:10	02/29/08 10:45
401155002	**FBK-003**	Water	02/28/08 10:45	02/29/08 10:45
401155003	**HPL-003 15'**	Water	02/28/08 13:30	02/29/08 10:45
401155004	**HPL-003 60'**	Water	02/28/08 13:50	02/29/08 10:45
401155005	**HPL-003 120'**	Water	02/28/08 14:30	02/29/08 10:45
401155006	**HPL-003 175'**	Water	02/28/08 15:05	02/29/08 10:45
401155007	**DUP-003**	Water	02/28/08 00:00	02/29/08 10:45

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
401155001	HPL-003 3'	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401155002	FBK-003	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401155003	HPL-003 15'	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401155004	HPL-003 60'	EPA 1631E	TLH	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401155005	HPL-003 120'	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401155006	HPL-003 175'	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401155007	DUP-003	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G

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Green Bay, WI 54302
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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: EPA 1631E
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: EPA 6020
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MPRP/1016

1j: Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 100 times the IDL for analysis done on the ICP-MS. A physical interference was observed.

- HPL-003 15' (Lab ID: 401155003)
  - Lithium

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: EPA 300.0
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1014

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401155007

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 1535)
  - Nitrite as N
- MSD (Lab ID: 1536)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1016

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401155007

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 1546)
  - Chloride
  - Fluoride
- MSD (Lab ID: 1547)
  - Chloride
  - Fluoride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1082

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401168008,401342003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 4470)
  - Nitrogen, Ammonia
- MSD (Lab ID: 4471)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: EPA 410.4
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 20, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 3' **Lab ID: 401155001** Collected: 02/28/08 13:10 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.395J**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 10:54	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	ND	ug/L	50.0	4.4	1	03/03/08 10:26	03/11/08 18:45	7429-90-5	
Antimony	**7.9**	ug/L	1.0	0.10	1	03/03/08 10:26	03/10/08 18:42	7440-36-0	
Arsenic	**0.55J**	ug/L	1.0	0.093	1	03/03/08 10:26	03/10/08 18:42	7440-38-2	
Barium	**7.1**	ug/L	1.0	0.072	1	03/03/08 10:26	03/10/08 18:42	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/03/08 10:26	03/11/08 18:45	7440-41-7	
Boron	**79.7**	ug/L	10.0	1.1	1	03/03/08 10:26	03/10/08 18:42	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/03/08 10:26	03/10/08 18:42	7440-43-9	
Calcium	**52800**	ug/L	5000	100	10	03/03/08 10:26	03/11/08 18:03	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/03/08 10:26	03/10/08 18:42	7440-47-3	
Cobalt	**3.7**	ug/L	1.0	0.059	1	03/03/08 10:26	03/10/08 18:42	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.12	1	03/03/08 10:26	03/10/08 18:42	7440-50-8	
Iron	**102**	ug/L	50.0	2.9	1	03/03/08 10:26	03/10/08 18:42	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/03/08 10:26	03/10/08 18:42	7439-92-1	
Lithium	**3.3**	ug/L	1.0	0.085	1	03/03/08 10:26	03/11/08 18:45	7439-93-2	
Magnesium	**25200**	ug/L	5000	526	10	03/03/08 10:26	03/11/08 18:03	7439-95-4	
Manganese	**209**	ug/L	1.0	0.080	1	03/03/08 10:26	03/10/08 18:42	7439-96-5	
Molybdenum	**11.4**	ug/L	10.0	0.11	1	03/03/08 10:26	03/10/08 18:42	7439-98-7	
Nickel	**16.7**	ug/L	1.0	0.074	1	03/03/08 10:26	03/10/08 18:42	7440-02-0	
Potassium	**8390**	ug/L	500	6.2	1	03/03/08 10:26	03/11/08 18:45	7440-09-7	
Selenium	**0.48J**	ug/L	1.0	0.15	1	03/03/08 10:26	03/10/08 18:42	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/03/08 10:26	03/10/08 18:42	7440-22-4	
Sodium	**13300**	ug/L	500	46.0	1	03/03/08 10:26	03/11/08 18:45	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/03/08 10:26	03/10/08 18:42	7440-28-0	
Total Hardness	**235**	mg/L	50.0	1.5	10	03/03/08 10:26	03/11/08 18:03		
Vanadium	ND	ug/L	1.0	0.41	1	03/03/08 10:26	03/10/08 18:42	7440-62-2	
Zinc	**8.0J**	ug/L	10.0	2.1	1	03/03/08 10:26	03/10/08 18:42	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.89J**	NTU	1.0	0.44	1		02/29/08 15:30		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**109**	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Carbonate (CaCO)	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Total	**109**	mg/L	10.0	3.2	1		03/07/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**332**	mg/L	20.0	12.0	1		03/05/08 10:41		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.31	1		03/03/08 00:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 3' **Lab ID: 401155001** Collected: 02/28/08 13:10 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/03/08 11:11		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		03/03/08 21:41	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		02/29/08 16:59	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**13.4**	mg/L	5.0	1.1	1		02/29/08 21:00	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		02/29/08 21:00	16984-48-8	
Sulfate	**146**	mg/L	40.0	5.1	10		03/03/08 21:53	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0077J**	mg/L	0.020	0.0060	1		03/11/08 13:57	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:06	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		03/05/08 15:14		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.4**	mg/L	2.0	1.4	1		03/06/08 08:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.8**	mg/L	2.0	1.4	1		03/06/08 12:44		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: FBK-003 **Lab ID: 401155002** Collected: 02/28/08 10:45 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.270J**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 12:33	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**8.0J**	ug/L	50.0	4.4	1	03/03/08 10:26	03/11/08 19:25	7429-90-5	
Antimony	**0.24J**	ug/L	1.0	0.10	1	03/03/08 10:26	03/10/08 19:12	7440-36-0	
Arsenic	**0.28J**	ug/L	1.0	0.093	1	03/03/08 10:26	03/10/08 19:12	7440-38-2	
Barium	**0.27J**	ug/L	1.0	0.072	1	03/03/08 10:26	03/10/08 19:12	7440-39-3	B
Beryllium	**0.080J**	ug/L	1.0	0.070	1	03/03/08 10:26	03/11/08 19:25	7440-41-7	
Boron	**215**	ug/L	10.0	1.1	1	03/03/08 10:26	03/10/08 19:12	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/03/08 10:26	03/10/08 19:12	7440-43-9	
Calcium	**62.4J**	ug/L	500	10.0	1	03/03/08 10:26	03/11/08 19:25	7440-70-2	B
Chromium	**0.57J**	ug/L	1.0	0.43	1	03/03/08 10:26	03/10/08 19:12	7440-47-3	
Cobalt	**0.15J**	ug/L	1.0	0.059	1	03/03/08 10:26	03/10/08 19:12	7440-48-4	
Copper	**1.8**	ug/L	1.0	0.12	1	03/03/08 10:26	03/10/08 19:12	7440-50-8	
Iron	**8.0J**	ug/L	50.0	2.9	1	03/03/08 10:26	03/10/08 19:12	7439-89-6	
Lead	**0.29J**	ug/L	1.0	0.044	1	03/03/08 10:26	03/10/08 19:12	7439-92-1	
Lithium	**1.2**	ug/L	1.0	0.085	1	03/03/08 10:26	03/11/08 19:25	7439-93-2	
Magnesium	ND	ug/L	500	52.6	1	03/03/08 10:26	03/11/08 19:25	7439-95-4	
Manganese	**4.2**	ug/L	1.0	0.080	1	03/03/08 10:26	03/10/08 19:12	7439-96-5	B
Molybdenum	**0.29J**	ug/L	10.0	0.11	1	03/03/08 10:26	03/10/08 19:12	7439-98-7	
Nickel	**0.18J**	ug/L	1.0	0.074	1	03/03/08 10:26	03/10/08 19:12	7440-02-0	
Potassium	**36.4J**	ug/L	500	6.2	1	03/03/08 10:26	03/11/08 19:25	7440-09-7	B
Selenium	**0.55J**	ug/L	1.0	0.15	1	03/03/08 10:26	03/10/08 19:12	7782-49-2	
Silver	**0.21J**	ug/L	0.50	0.11	1	03/03/08 10:26	03/10/08 19:12	7440-22-4	
Sodium	**2490**	ug/L	500	46.0	1	03/03/08 10:26	03/11/08 19:25	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/03/08 10:26	03/10/08 19:12	7440-28-0	
Total Hardness	**0.23J**	mg/L	5.0	0.15	1	03/03/08 10:26	03/11/08 19:25		B
Vanadium	ND	ug/L	1.0	0.41	1	03/03/08 10:26	03/10/08 19:12	7440-62-2	
Zinc	**6.6J**	ug/L	10.0	2.1	1	03/03/08 10:26	03/10/08 19:12	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	ND	NTU	1.0	0.44	1		02/29/08 15:30		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Carbonate (CaCO)	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Total	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	20.0	12.0	1		03/06/08 11:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.1	0.33	1		03/03/08 00:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: FBK-003 **Lab ID: 401155002** Collected: 02/28/08 10:45 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/03/08 11:11		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	ND	mg/L	0.40	0.085	1		02/29/08 21:14	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		02/29/08 17:13	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.0J**	mg/L	5.0	1.1	1		02/29/08 21:14	16887-00-6	
Fluoride	**0.21J**	mg/L	0.50	0.059	1		02/29/08 21:14	16984-48-8	
Sulfate	ND	mg/L	4.0	0.51	1		02/29/08 21:14	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	ND	mg/L	0.020	0.0060	1		03/11/08 13:58	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:07	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	ND	mg/L	50.0	10.8	1		03/05/08 15:14		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	2.0	1.4	1		03/06/08 08:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**1.6J**	mg/L	2.0	1.4	1		03/06/08 13:11		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 15' **Lab ID: 401155003** Collected: 02/28/08 13:30 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.362J**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 10:58	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**12.5J**	ug/L	50.0	4.4	1	03/03/08 10:26	03/11/08 19:31	7429-90-5	
Antimony	**8.5**	ug/L	1.0	0.10	1	03/03/08 10:26	03/10/08 19:18	7440-36-0	
Arsenic	**0.51J**	ug/L	1.0	0.093	1	03/03/08 10:26	03/10/08 19:18	7440-38-2	
Barium	**7.5**	ug/L	1.0	0.072	1	03/03/08 10:26	03/10/08 19:18	7440-39-3	B
Beryllium	ND	ug/L	1.0	0.070	1	03/03/08 10:26	03/11/08 19:31	7440-41-7	
Boron	**88.7**	ug/L	10.0	1.1	1	03/03/08 10:26	03/10/08 19:18	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/03/08 10:26	03/10/08 19:18	7440-43-9	
Calcium	**53400**	ug/L	5000	100	10	03/03/08 10:26	03/11/08 18:09	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/03/08 10:26	03/10/08 19:18	7440-47-3	
Cobalt	**4.0**	ug/L	1.0	0.059	1	03/03/08 10:26	03/10/08 19:18	7440-48-4	
Copper	**1.6**	ug/L	1.0	0.12	1	03/03/08 10:26	03/10/08 19:18	7440-50-8	
Iron	**123**	ug/L	50.0	2.9	1	03/03/08 10:26	03/10/08 19:18	7439-89-6	
Lead	**0.090J**	ug/L	1.0	0.044	1	03/03/08 10:26	03/10/08 19:18	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.085	1	03/03/08 10:26	03/11/08 19:31	7439-93-2	1j
Magnesium	**25600**	ug/L	5000	526	10	03/03/08 10:26	03/11/08 18:09	7439-95-4	
Manganese	**221**	ug/L	1.0	0.080	1	03/03/08 10:26	03/10/08 19:18	7439-96-5	
Molybdenum	**12.4**	ug/L	10.0	0.11	1	03/03/08 10:26	03/10/08 19:18	7439-98-7	
Nickel	**17.7**	ug/L	1.0	0.074	1	03/03/08 10:26	03/10/08 19:18	7440-02-0	
Potassium	**8610**	ug/L	500	6.2	1	03/03/08 10:26	03/11/08 19:31	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/03/08 10:26	03/10/08 19:18	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/03/08 10:26	03/10/08 19:18	7440-22-4	
Sodium	**13400**	ug/L	500	46.0	1	03/03/08 10:26	03/11/08 19:31	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/03/08 10:26	03/10/08 19:18	7440-28-0	
Total Hardness	**238**	mg/L	50.0	1.5	10	03/03/08 10:26	03/11/08 18:09		
Vanadium	ND	ug/L	1.0	0.41	1	03/03/08 10:26	03/10/08 19:18	7440-62-2	
Zinc	**6.0J**	ug/L	10.0	2.1	1	03/03/08 10:26	03/10/08 19:18	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.92J**	NTU	1.0	0.44	1		02/29/08 15:30		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**86.6**	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Carbonate (CaCO)	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Total	**86.6**	mg/L	10.0	3.2	1		03/07/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**310**	mg/L	20.0	12.0	1		03/06/08 11:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.31	1		03/03/08 00:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 15' **Lab ID: 401155003** Collected: 02/28/08 13:30 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/03/08 11:11		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		03/03/08 22:05	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		02/29/08 17:27	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.9**	mg/L	5.0	1.1	1		02/29/08 21:28	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		02/29/08 21:28	16984-48-8	
Sulfate	**145**	mg/L	40.0	5.1	10		03/03/08 22:17	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.010J**	mg/L	0.020	0.0060	1		03/11/08 13:59	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:07	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	ND	mg/L	50.0	10.8	1		03/05/08 15:14		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.7**	mg/L	2.0	1.4	1		03/06/08 08:34	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.3**	mg/L	2.0	1.4	1		03/06/08 13:12		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 60' **Lab ID: 401155004** Collected: 02/28/08 13:50 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.367J**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 11:02	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	ND	ug/L	50.0	4.4	1	03/03/08 10:26	03/11/08 19:43	7429-90-5	
Antimony	**8.0**	ug/L	1.0	0.10	1	03/03/08 10:26	03/10/08 19:30	7440-36-0	
Arsenic	**0.79J**	ug/L	1.0	0.093	1	03/03/08 10:26	03/10/08 19:30	7440-38-2	
Barium	**7.9**	ug/L	1.0	0.072	1	03/03/08 10:26	03/10/08 19:30	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/03/08 10:26	03/11/08 19:43	7440-41-7	
Boron	**79.6**	ug/L	10.0	1.1	1	03/03/08 10:26	03/10/08 19:30	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/03/08 10:26	03/10/08 19:30	7440-43-9	
Calcium	**49300**	ug/L	5000	100	10	03/03/08 10:26	03/11/08 18:21	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/03/08 10:26	03/10/08 19:30	7440-47-3	
Cobalt	**4.1**	ug/L	1.0	0.059	1	03/03/08 10:26	03/10/08 19:30	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.12	1	03/03/08 10:26	03/10/08 19:30	7440-50-8	
Iron	**442**	ug/L	50.0	2.9	1	03/03/08 10:26	03/10/08 19:30	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/03/08 10:26	03/10/08 19:30	7439-92-1	
Lithium	**3.1**	ug/L	1.0	0.085	1	03/03/08 10:26	03/11/08 19:43	7439-93-2	
Magnesium	**23700**	ug/L	5000	526	10	03/03/08 10:26	03/11/08 18:21	7439-95-4	
Manganese	**318**	ug/L	1.0	0.080	1	03/03/08 10:26	03/10/08 19:30	7439-96-5	
Molybdenum	**11.4**	ug/L	10.0	0.11	1	03/03/08 10:26	03/10/08 19:30	7439-98-7	
Nickel	**17.9**	ug/L	1.0	0.074	1	03/03/08 10:26	03/10/08 19:30	7440-02-0	
Potassium	**8270**	ug/L	500	6.2	1	03/03/08 10:26	03/11/08 19:43	7440-09-7	
Selenium	**0.55J**	ug/L	1.0	0.15	1	03/03/08 10:26	03/10/08 19:30	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/03/08 10:26	03/10/08 19:30	7440-22-4	
Sodium	**12900**	ug/L	500	46.0	1	03/03/08 10:26	03/11/08 19:43	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/03/08 10:26	03/10/08 19:30	7440-28-0	
Total Hardness	**221**	mg/L	50.0	1.5	10	03/03/08 10:26	03/11/08 18:21		
Vanadium	ND	ug/L	1.0	0.41	1	03/03/08 10:26	03/10/08 19:30	7440-62-2	
Zinc	**3.1J**	ug/L	10.0	2.1	1	03/03/08 10:26	03/10/08 19:30	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.6**	NTU	1.0	0.44	1		02/29/08 15:30		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**107**	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Carbonate (CaCO)	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Total	**107**	mg/L	10.0	3.2	1		03/07/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**324**	mg/L	20.0	12.0	1		03/06/08 11:05		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.50J**	mg/L	1.0	0.31	1		03/03/08 00:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 60' **Lab ID: 401155004** Collected: 02/28/08 13:50 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/03/08 11:11		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		03/03/08 22:30	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		02/29/08 17:41	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.8**	mg/L	5.0	1.1	1		02/29/08 21:42	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		02/29/08 21:42	16984-48-8	
Sulfate	**144**	mg/L	40.0	5.1	10		03/03/08 22:42	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0069J**	mg/L	0.020	0.0060	1		03/11/08 13:59	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:08	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	ND	mg/L	50.0	10.8	1		03/05/08 15:14		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.3**	mg/L	2.0	1.4	1		03/06/08 08:34	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.3**	mg/L	2.0	1.4	1		03/06/08 13:12		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 120' **Lab ID: 401155005** Collected: 02/28/08 14:30 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.737**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 11:50	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	ND	ug/L	50.0	4.4	1	03/03/08 10:26	03/11/08 19:49	7429-90-5	
Antimony	**7.8**	ug/L	1.0	0.10	1	03/03/08 10:26	03/10/08 19:36	7440-36-0	
Arsenic	**0.77J**	ug/L	1.0	0.093	1	03/03/08 10:26	03/10/08 19:36	7440-38-2	
Barium	**7.7**	ug/L	1.0	0.072	1	03/03/08 10:26	03/10/08 19:36	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/03/08 10:26	03/11/08 19:49	7440-41-7	
Boron	**79.6**	ug/L	10.0	1.1	1	03/03/08 10:26	03/10/08 19:36	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/03/08 10:26	03/10/08 19:36	7440-43-9	
Calcium	**51900**	ug/L	5000	100	10	03/03/08 10:26	03/11/08 18:27	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/03/08 10:26	03/10/08 19:36	7440-47-3	
Cobalt	**4.1**	ug/L	1.0	0.059	1	03/03/08 10:26	03/10/08 19:36	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.12	1	03/03/08 10:26	03/10/08 19:36	7440-50-8	
Iron	**424**	ug/L	50.0	2.9	1	03/03/08 10:26	03/10/08 19:36	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/03/08 10:26	03/10/08 19:36	7439-92-1	
Lithium	**3.3**	ug/L	1.0	0.085	1	03/03/08 10:26	03/11/08 19:49	7439-93-2	
Magnesium	**24900**	ug/L	5000	526	10	03/03/08 10:26	03/11/08 18:27	7439-95-4	
Manganese	**316**	ug/L	1.0	0.080	1	03/03/08 10:26	03/10/08 19:36	7439-96-5	
Molybdenum	**11.3**	ug/L	10.0	0.11	1	03/03/08 10:26	03/10/08 19:36	7439-98-7	
Nickel	**17.8**	ug/L	1.0	0.074	1	03/03/08 10:26	03/10/08 19:36	7440-02-0	
Potassium	**8210**	ug/L	500	6.2	1	03/03/08 10:26	03/11/08 19:49	7440-09-7	
Selenium	**0.44J**	ug/L	1.0	0.15	1	03/03/08 10:26	03/10/08 19:36	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/03/08 10:26	03/10/08 19:36	7440-22-4	
Sodium	**12700**	ug/L	500	46.0	1	03/03/08 10:26	03/11/08 19:49	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/03/08 10:26	03/10/08 19:36	7440-28-0	
Total Hardness	**232**	mg/L	50.0	1.5	10	03/03/08 10:26	03/11/08 18:27		
Vanadium	ND	ug/L	1.0	0.41	1	03/03/08 10:26	03/10/08 19:36	7440-62-2	
Zinc	**3.3J**	ug/L	10.0	2.1	1	03/03/08 10:26	03/10/08 19:36	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.85J**	NTU	1.0	0.44	1		02/29/08 15:30		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**140**	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Carbonate (CaCO)	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Total	**140**	mg/L	10.0	3.2	1		03/07/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**396**	mg/L	20.0	12.0	1		03/06/08 11:06		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.31	1		03/03/08 00:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 120' **Lab ID: 401155005** Collected: 02/28/08 14:30 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/03/08 11:11		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.5**	mg/L	0.40	0.085	1		03/03/08 22:54	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		02/29/08 17:56	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**22.2**	mg/L	5.0	1.1	1		02/29/08 21:57	16887-00-6	
Fluoride	**0.31J**	mg/L	0.50	0.059	1		02/29/08 21:57	16984-48-8	
Sulfate	**170**	mg/L	40.0	5.1	10		03/03/08 23:55	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.016J**	mg/L	0.020	0.0060	1		03/11/08 14:00	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**2.5**	mg/L	1.0	0.50	1		03/13/08 14:28	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	ND	mg/L	50.0	10.8	1		03/05/08 15:14		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.2**	mg/L	2.0	1.4	1		03/06/08 08:50	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.8**	mg/L	2.0	1.4	1		03/06/08 13:39		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 175' **Lab ID: 401155006** Collected: 02/28/08 15:05 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.635**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 11:54	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	ND	ug/L	50.0	4.4	1	03/03/08 10:26	03/11/08 19:55	7429-90-5	
Antimony	**40.3**	ug/L	1.0	0.10	1	03/03/08 10:26	03/10/08 19:42	7440-36-0	
Arsenic	**0.49J**	ug/L	1.0	0.093	1	03/03/08 10:26	03/10/08 19:42	7440-38-2	
Barium	**11.3**	ug/L	1.0	0.072	1	03/03/08 10:26	03/10/08 19:42	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/03/08 10:26	03/11/08 19:55	7440-41-7	
Boron	**141**	ug/L	10.0	1.1	1	03/03/08 10:26	03/10/08 19:42	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/03/08 10:26	03/10/08 19:42	7440-43-9	
Calcium	**56600**	ug/L	5000	100	10	03/03/08 10:26	03/11/08 18:33	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/03/08 10:26	03/10/08 19:42	7440-47-3	
Cobalt	**22.6**	ug/L	1.0	0.059	1	03/03/08 10:26	03/10/08 19:42	7440-48-4	
Copper	**2.7**	ug/L	1.0	0.12	1	03/03/08 10:26	03/10/08 19:42	7440-50-8	
Iron	**109**	ug/L	50.0	2.9	1	03/03/08 10:26	03/10/08 19:42	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/03/08 10:26	03/10/08 19:42	7439-92-1	
Lithium	**3.5**	ug/L	1.0	0.085	1	03/03/08 10:26	03/11/08 19:55	7439-93-2	
Magnesium	**31900**	ug/L	5000	526	10	03/03/08 10:26	03/11/08 18:33	7439-95-4	
Manganese	**2640**	ug/L	1.0	0.080	1	03/03/08 10:26	03/10/08 19:42	7439-96-5	
Molybdenum	**65.7**	ug/L	10.0	0.11	1	03/03/08 10:26	03/10/08 19:42	7439-98-7	
Nickel	**287**	ug/L	1.0	0.074	1	03/03/08 10:26	03/10/08 19:42	7440-02-0	
Potassium	**20600**	ug/L	500	6.2	1	03/03/08 10:26	03/11/08 19:55	7440-09-7	
Selenium	**0.50J**	ug/L	1.0	0.15	1	03/03/08 10:26	03/10/08 19:42	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/03/08 10:26	03/10/08 19:42	7440-22-4	
Sodium	**31200**	ug/L	500	46.0	1	03/03/08 10:26	03/11/08 19:55	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/03/08 10:26	03/10/08 19:42	7440-28-0	
Total Hardness	**273**	mg/L	50.0	1.5	10	03/03/08 10:26	03/11/08 18:33		
Vanadium	ND	ug/L	1.0	0.41	1	03/03/08 10:26	03/10/08 19:42	7440-62-2	
Zinc	**4.9J**	ug/L	10.0	2.1	1	03/03/08 10:26	03/10/08 19:42	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.7**	NTU	1.0	0.44	1		02/29/08 15:30		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**166**	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Carbonate (CaCO)	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Total	**166**	mg/L	10.0	3.2	1		03/07/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**422**	mg/L	20.0	12.0	1		03/06/08 11:07		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.31	1		03/03/08 00:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: HPL-003 175' **Lab ID: 401155006** Collected: 02/28/08 15:05 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/03/08 11:11		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.3**	mg/L	0.40	0.085	1		03/04/08 00:07	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		02/29/08 18:10	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**27.0**	mg/L	5.0	1.1	1		02/29/08 22:11	16887-00-6	
Fluoride	**0.35J**	mg/L	0.50	0.059	1		02/29/08 22:11	16984-48-8	
Sulfate	**176**	mg/L	40.0	5.1	10		03/04/08 00:19	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.017J**	mg/L	0.020	0.0060	1		03/11/08 14:01	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.7**	mg/L	1.0	0.50	1		03/13/08 14:31	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**17.4J**	mg/L	50.0	10.8	1		03/05/08 15:14		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.5**	mg/L	2.0	1.4	1		03/06/08 11:23	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.8**	mg/L	2.0	1.4	1		03/06/08 13:40		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: DUP-003 **Lab ID: 401155007** Collected: 02/28/08 00:00 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.464J**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 11:15	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	ND	ug/L	50.0	4.4	1	03/03/08 10:26	03/11/08 20:01	7429-90-5	
Antimony	**8.1**	ug/L	1.0	0.10	1	03/03/08 10:26	03/10/08 19:48	7440-36-0	
Arsenic	**0.69J**	ug/L	1.0	0.093	1	03/03/08 10:26	03/10/08 19:48	7440-38-2	
Barium	**8.1**	ug/L	1.0	0.072	1	03/03/08 10:26	03/10/08 19:48	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/03/08 10:26	03/11/08 20:01	7440-41-7	
Boron	**81.6**	ug/L	10.0	1.1	1	03/03/08 10:26	03/10/08 19:48	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/03/08 10:26	03/10/08 19:48	7440-43-9	
Calcium	**52200**	ug/L	5000	100	10	03/03/08 10:26	03/11/08 18:39	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/03/08 10:26	03/10/08 19:48	7440-47-3	
Cobalt	**4.1**	ug/L	1.0	0.059	1	03/03/08 10:26	03/10/08 19:48	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.12	1	03/03/08 10:26	03/10/08 19:48	7440-50-8	
Iron	**422**	ug/L	50.0	2.9	1	03/03/08 10:26	03/10/08 19:48	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/03/08 10:26	03/10/08 19:48	7439-92-1	
Lithium	**3.0**	ug/L	1.0	0.085	1	03/03/08 10:26	03/11/08 20:01	7439-93-2	
Magnesium	**25000**	ug/L	5000	526	10	03/03/08 10:26	03/11/08 18:39	7439-95-4	
Manganese	**321**	ug/L	1.0	0.080	1	03/03/08 10:26	03/10/08 19:48	7439-96-5	
Molybdenum	**11.4**	ug/L	10.0	0.11	1	03/03/08 10:26	03/10/08 19:48	7439-98-7	
Nickel	**17.8**	ug/L	1.0	0.074	1	03/03/08 10:26	03/10/08 19:48	7440-02-0	
Potassium	**8220**	ug/L	500	6.2	1	03/03/08 10:26	03/11/08 20:01	7440-09-7	
Selenium	**0.59J**	ug/L	1.0	0.15	1	03/03/08 10:26	03/10/08 19:48	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/03/08 10:26	03/10/08 19:48	7440-22-4	
Sodium	**12800**	ug/L	500	46.0	1	03/03/08 10:26	03/11/08 20:01	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/03/08 10:26	03/10/08 19:48	7440-28-0	
Total Hardness	**233**	mg/L	50.0	1.5	10	03/03/08 10:26	03/11/08 18:39		
Vanadium	ND	ug/L	1.0	0.41	1	03/03/08 10:26	03/10/08 19:48	7440-62-2	
Zinc	**4.1J**	ug/L	10.0	2.1	1	03/03/08 10:26	03/10/08 19:48	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.8**	NTU	1.0	0.44	1		02/29/08 15:30		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Carbonate (CaCO)	ND	mg/L	10.0	3.2	1		03/07/08 10:00		
Alkalinity, Total	**104**	mg/L	10.0	3.2	1		03/07/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**312**	mg/L	20.0	12.0	1		03/06/08 11:08		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.70J**	mg/L	1.0	0.31	1		03/03/08 00:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Sample: DUP-003 **Lab ID: 401155007** Collected: 02/28/08 00:00 Received: 02/29/08 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/03/08 11:11		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		03/04/08 00:31	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		02/29/08 18:24	14797-65-0	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.8**	mg/L	5.0	1.1	1		02/29/08 22:25	16887-00-6	M0
Fluoride	**0.27J**	mg/L	0.50	0.059	1		02/29/08 22:25	16984-48-8	M0
Sulfate	**144**	mg/L	40.0	5.1	10		03/04/08 00:44	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0075J**	mg/L	0.020	0.0060	1		03/11/08 14:02	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/13/08 14:32	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		03/05/08 15:14		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.3**	mg/L	2.0	1.4	1		03/06/08 09:30	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.8**	mg/L	2.0	1.4	1		03/06/08 13:54		

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WETA/1014 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 1533
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	ND	0.40	
Nitrite as N	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 1534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.7	105	90-110	
Nitrite as N	mg/L	.8	0.83	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1535 1536

Parameter	Units	401155007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	2.1	1.6	1.6	3.7	3.7	104	104	90-110	.3	20	
Nitrite as N	mg/L	ND	.8	.8	0.38	0.37	48	46	90-110	3	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WETA/1016 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 1544
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	2.5J	5.0	
Fluoride	mg/L	ND	0.50	
Sulfate	mg/L	ND	4.0	

LABORATORY CONTROL SAMPLE: 1545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.4	107	90-110	
Fluoride	mg/L	2	2.2	110	90-110	
Sulfate	mg/L	16	16.7	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1546 1547

Parameter	Units	401155007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.8	20	20	56.5	56.7	218	219	90-110	.3	20	M0
Fluoride	mg/L	0.27J	2	2	4.6	4.6	217	217	90-110	0	20	M0
Sulfate	mg/L	144	160	160	304	299	100	97	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WET/1017 — Analysis Method: SM 2540D
QC Batch Method: SM 2540D — Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 1555
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 1556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	271	256	94	80-120	

SAMPLE DUPLICATE: 1557

Parameter	Units	401126001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	41.0	43.0	5	20	

SAMPLE DUPLICATE: 1558

Parameter	Units	401128001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	<0.69	ND	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: MPRP/1016 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 1595
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	ND	50.0	
Antimony	ug/L	ND	1.0	
Arsenic	ug/L	ND	1.0	
Barium	ug/L	0.38J	1.0	
Beryllium	ug/L	ND	1.0	
Boron	ug/L	ND	10.0	
Cadmium	ug/L	ND	1.0	
Calcium	ug/L	35.8J	500	
Chromium	ug/L	ND	1.0	
Cobalt	ug/L	ND	1.0	
Copper	ug/L	ND	1.0	
Iron	ug/L	ND	50.0	
Lead	ug/L	ND	1.0	
Lithium	ug/L	ND	1.0	
Magnesium	ug/L	ND	500	
Manganese	ug/L	0.27J	1.0	
Molybdenum	ug/L	ND	10.0	
Nickel	ug/L	ND	1.0	
Potassium	ug/L	8.5J	500	
Selenium	ug/L	ND	1.0	
Silver	ug/L	ND	0.50	
Sodium	ug/L	ND	500	
Thallium	ug/L	ND	1.0	
Total Hardness	mg/L	0.15J	5.0	
Vanadium	ug/L	ND	1.0	
Zinc	ug/L	3.3J	10.0	

LABORATORY CONTROL SAMPLE: 1596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9400	94	75-125	
Antimony	ug/L	200	196	98	75-125	
Arsenic	ug/L	200	186	93	75-125	
Barium	ug/L	200	182	91	75-125	
Beryllium	ug/L	200	194	97	75-125	
Boron	ug/L	200	189	94	75-125	
Cadmium	ug/L	200	189	94	75-125	
Calcium	ug/L	10000	9450	95	75-125	
Chromium	ug/L	200	186	93	75-125	
Cobalt	ug/L	200	182	91	75-125	
Copper	ug/L	200	185	92	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

LABORATORY CONTROL SAMPLE: 1596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	9500	95	75-125	
Lead	ug/L	200	188	94	75-125	
Lithium	ug/L	200	196	98	75-125	
Magnesium	ug/L	10000	9610	96	75-125	
Manganese	ug/L	200	187	94	75-125	
Molybdenum	ug/L	200	186	93	75-125	
Nickel	ug/L	200	184	92	75-125	
Potassium	ug/L	10000	9490	95	75-125	
Selenium	ug/L	200	188	94	75-125	
Silver	ug/L	100	92.4	92	75-125	
Sodium	ug/L	10000	9470	95	75-125	
Thallium	ug/L	200	183	91	75-125	
Total Hardness	mg/L		63.2			
Vanadium	ug/L	200	184	92	75-125	
Zinc	ug/L	200	187	93	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1597 1598

Parameter	Units	401155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	9060	10400	91	104	75-125	14	20	
Antimony	ug/L	7.9	200	200	227	251	109	122	75-125	10	20	
Arsenic	ug/L	0.55J	200	200	198	226	99	113	75-125	14	20	
Barium	ug/L	7.1	200	200	212	237	103	115	75-125	11	20	
Beryllium	ug/L	ND	200	200	176	203	88	102	75-125	14	20	
Boron	ug/L	79.7	200	200	264	288	92	104	75-125	8	20	
Cadmium	ug/L	ND	200	200	202	227	101	113	75-125	11	20	
Calcium	ug/L	52800	10000	10000	61600	60300	88	75	75-125	2	20	
Chromium	ug/L	ND	200	200	202	226	101	113	75-125	11	20	
Cobalt	ug/L	3.7	200	200	198	220	97	108	75-125	10	20	
Copper	ug/L	1.3	200	200	200	222	99	110	75-125	10	20	
Iron	ug/L	102	10000	10000	10500	11600	104	115	75-125	10	20	
Lead	ug/L	ND	200	200	205	231	102	115	75-125	12	20	
Lithium	ug/L	3.3	200	200	189	214	93	105	75-125	12	20	
Magnesium	ug/L	25200	10000	10000	33900	34200	88	91	75-125	.9	20	
Manganese	ug/L	209	200	200	437	453	114	122	75-125	4	20	
Molybdenum	ug/L	11.4	200	200	219	238	104	113	75-125	8	20	
Nickel	ug/L	16.7	200	200	212	233	97	108	75-125	10	20	
Potassium	ug/L	8390	10000	10000	17700	19600	93	112	75-125	10	20	
Selenium	ug/L	0.48J	200	200	197	222	98	111	75-125	12	20	
Silver	ug/L	ND	100	100	97.0	110	97	110	75-125	12	20	
Sodium	ug/L	13300	10000	10000	22300	23700	90	104	75-125	6	20	
Thallium	ug/L	ND	200	200	199	224	99	112	75-125	12	20	
Total Hardness	mg/L	235			293	291				.7	20	
Vanadium	ug/L	ND	200	200	201	225	101	113	75-125	11	20	
Zinc	ug/L	8.0J	200	200	191	216	91	104	75-125	12	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WET/1018 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 1663
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 1664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	42	39.6	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1665 1666

Parameter	Units	401155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	42	42	41.6	42.0	98	99	80-120	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WET/1020 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 1681
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	ND	1.0	

LABORATORY CONTROL SAMPLE: 1682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	542	544	100		

SAMPLE DUPLICATE: 1683

Parameter	Units	401155007 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	4.8	4.7	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WET/1031
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 401155001

METHOD BLANK: 2176
Associated Lab Samples: 401155001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	

LABORATORY CONTROL SAMPLE: 2177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	963	916	95	80-120	

SAMPLE DUPLICATE: 2178

Parameter	Units	401107004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	85700	84800	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WETA/1040 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 2409
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50.0	

LABORATORY CONTROL SAMPLE: 2410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	477	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2411 2412

Parameter	Units	401201002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	55.9	526	526	571	585	98	100	90-110	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WETA/1043 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 2512
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 2513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	94.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2514 2515

Parameter	Units	401155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.4	100	100	107	108	104	105	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2516 2517

Parameter	Units	401216001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	100	100	104	103	103	103	80-120	.2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WET/1039 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 2594
Associated Lab Samples: 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	

LABORATORY CONTROL SAMPLE: 2595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	963	944	98	80-120	

SAMPLE DUPLICATE: 2596

Parameter	Units	401155003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	310	310	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WETA/1045 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 2730
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 2731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	89.7	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2732 2733

Parameter	Units	401155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	3.8	100	100	104	104	100	100	80-120	.09	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2734 2735

Parameter	Units	401155007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.8	100	100	102	103	99	100	80-120	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WETA/1052 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004

METHOD BLANK: 2858
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 2859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2860 2861

Parameter	Units	401086001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.03	10	10	9.9	10.3	94	99	90-110	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2862 2863

Parameter	Units	401155004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	10	10	10.7	10.5	105	103	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WET/1050 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 3276
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Carbonate (CaCO)	mg/L	ND	10.0	
Alkalinity, Total	mg/L	ND	10.0	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 3277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total	mg/L	500	497	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3278 3279

Parameter	Units	401155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total	mg/L	109	500	500	610	619	100	102	80-120	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WETA/1067 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 3529
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	ND	0.020	

LABORATORY CONTROL SAMPLE: 3530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3531 3532

Parameter	Units	401128001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0067J	.1	.1	0.11	0.10	101	94	90-110	7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3533 3534

Parameter	Units	401216004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.014J	.1	.1	0.12	0.12	104	105	90-110	.7	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: CVFS/1009 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

METHOD BLANK: 3574
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.209J	0.50	

METHOD BLANK: 3575
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.326J	0.50	

METHOD BLANK: 3576
Associated Lab Samples: 401155001, 401155002, 401155003, 401155004, 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.326J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 3577 3578

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	4.71	4.86	94	97	79-121	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3738 3739

Parameter	Units	401190004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	2.53	20	20	22.0	21.6	97	96	75-124	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740 3741

Parameter	Units	401190005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.66	5	5	6.71	6.49	101	97	75-124	3	24	

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nelac

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

QC Batch: WETA/1082 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 401155005, 401155006, 401155007

METHOD BLANK: 4466
Associated Lab Samples: 401155005, 401155006, 401155007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 4467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4468 4469

Parameter	Units	401168008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	2700	10	10	2700	2800	-2	1090	90-110	4	20	P6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4470 4471

Parameter	Units	401342003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	10	10	8.7	8.8	84	86	90-110	2	20	M0

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QUALIFIERS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1j	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 100 times the IDL for analysis done on the ICP-MS. A physical interference was observed.
B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401155001	HPL-003 3'	EPA 300.0	WETA/1014		
401155002	FBK-003	EPA 300.0	WETA/1014		
401155003	HPL-003 15'	EPA 300.0	WETA/1014		
401155004	HPL-003 60'	EPA 300.0	WETA/1014		
401155005	HPL-003 120'	EPA 300.0	WETA/1014		
401155006	HPL-003 175'	EPA 300.0	WETA/1014		
401155007	DUP-003	EPA 300.0	WETA/1014		
401155001	HPL-003 3'	EPA 300.0	WETA/1016		
401155002	FBK-003	EPA 300.0	WETA/1016		
401155003	HPL-003 15'	EPA 300.0	WETA/1016		
401155004	HPL-003 60'	EPA 300.0	WETA/1016		
401155005	HPL-003 120'	EPA 300.0	WETA/1016		
401155006	HPL-003 175'	EPA 300.0	WETA/1016		
401155007	DUP-003	EPA 300.0	WETA/1016		
401155001	HPL-003 3'	SM 2540D	WET/1017		
401155002	FBK-003	SM 2540D	WET/1017		
401155003	HPL-003 15'	SM 2540D	WET/1017		
401155004	HPL-003 60'	SM 2540D	WET/1017		
401155005	HPL-003 120'	SM 2540D	WET/1017		
401155006	HPL-003 175'	SM 2540D	WET/1017		
401155007	DUP-003	SM 2540D	WET/1017		
401155001	HPL-003 3'	EPA 3020	MPRP/1016	EPA 6020	ICPM/1006
401155002	FBK-003	EPA 3020	MPRP/1016	EPA 6020	ICPM/1006
401155003	HPL-003 15'	EPA 3020	MPRP/1016	EPA 6020	ICPM/1006
401155004	HPL-003 60'	EPA 3020	MPRP/1016	EPA 6020	ICPM/1006
401155005	HPL-003 120'	EPA 3020	MPRP/1016	EPA 6020	ICPM/1006
401155006	HPL-003 175'	EPA 3020	MPRP/1016	EPA 6020	ICPM/1006
401155007	DUP-003	EPA 3020	MPRP/1016	EPA 6020	ICPM/1006
401155001	HPL-003 3'	SM 4500-S F (2000)	WET/1018		
401155002	FBK-003	SM 4500-S F (2000)	WET/1018		
401155003	HPL-003 15'	SM 4500-S F (2000)	WET/1018		
401155004	HPL-003 60'	SM 4500-S F (2000)	WET/1018		
401155005	HPL-003 120'	SM 4500-S F (2000)	WET/1018		
401155006	HPL-003 175'	SM 4500-S F (2000)	WET/1018		
401155007	DUP-003	SM 4500-S F (2000)	WET/1018		
401155001	HPL-003 3'	SM 2130B	WET/1020		
401155002	FBK-003	SM 2130B	WET/1020		
401155003	HPL-003 15'	SM 2130B	WET/1020		
401155004	HPL-003 60'	SM 2130B	WET/1020		
401155005	HPL-003 120'	SM 2130B	WET/1020		
401155006	HPL-003 175'	SM 2130B	WET/1020		
401155007	DUP-003	SM 2130B	WET/1020		
401155001	HPL-003 3'	SM 2540C	WET/1031		
401155001	HPL-003 3'	EPA 410.4	WETA/1040		
401155002	FBK-003	EPA 410.4	WETA/1040		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401155003	HPL-003 15'	EPA 410.4	WETA/1040		
401155004	HPL-003 60'	EPA 410.4	WETA/1040		
401155005	HPL-003 120'	EPA 410.4	WETA/1040		
401155006	HPL-003 175'	EPA 410.4	WETA/1040		
401155007	DUP-003	EPA 410.4	WETA/1040		
401155001	HPL-003 3'	SM 5310C	WETA/1043		
401155002	FBK-003	SM 5310C	WETA/1043		
401155003	HPL-003 15'	SM 5310C	WETA/1043		
401155004	HPL-003 60'	SM 5310C	WETA/1043		
401155005	HPL-003 120'	SM 5310C	WETA/1043		
401155006	HPL-003 175'	SM 5310C	WETA/1043		
401155007	DUP-003	SM 5310C	WETA/1043		
401155002	FBK-003	SM 2540C	WET/1039		
401155003	HPL-003 15'	SM 2540C	WET/1039		
401155004	HPL-003 60'	SM 2540C	WET/1039		
401155005	HPL-003 120'	SM 2540C	WET/1039		
401155006	HPL-003 175'	SM 2540C	WET/1039		
401155007	DUP-003	SM 2540C	WET/1039		
401155001	HPL-003 3'	SM 5310C	WETA/1045		
401155002	FBK-003	SM 5310C	WETA/1045		
401155003	HPL-003 15'	SM 5310C	WETA/1045		
401155004	HPL-003 60'	SM 5310C	WETA/1045		
401155005	HPL-003 120'	SM 5310C	WETA/1045		
401155006	HPL-003 175'	SM 5310C	WETA/1045		
401155007	DUP-003	SM 5310C	WETA/1045		
401155001	HPL-003 3'	EPA 350.1	WETA/1052		
401155002	FBK-003	EPA 350.1	WETA/1052		
401155003	HPL-003 15'	EPA 350.1	WETA/1052		
401155004	HPL-003 60'	EPA 350.1	WETA/1052		
401155001	HPL-003 3'	SM 2320B	WET/1050		
401155002	FBK-003	SM 2320B	WET/1050		
401155003	HPL-003 15'	SM 2320B	WET/1050		
401155004	HPL-003 60'	SM 2320B	WET/1050		
401155005	HPL-003 120'	SM 2320B	WET/1050		
401155006	HPL-003 175'	SM 2320B	WET/1050		
401155007	DUP-003	SM 2320B	WET/1050		
401155001	HPL-003 3'	EPA 335.4	WETA/1067		
401155002	FBK-003	EPA 335.4	WETA/1067		
401155003	HPL-003 15'	EPA 335.4	WETA/1067		
401155004	HPL-003 60'	EPA 335.4	WETA/1067		
401155005	HPL-003 120'	EPA 335.4	WETA/1067		
401155006	HPL-003 175'	EPA 335.4	WETA/1067		
401155007	DUP-003	EPA 335.4	WETA/1067		
401155001	HPL-003 3'	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401155002	FBK-003	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 401155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401155003	HPL-003 15'	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401155004	HPL-003 60'	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401155005	HPL-003 120'	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401155006	HPL-003 175'	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401155007	DUP-003	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401155005	HPL-003 120'	EPA 350.1	WETA/1082		
401155006	HPL-003 175'	EPA 350.1	WETA/1082		
401155007	DUP-003	EPA 350.1	WETA/1082		

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Phone: 724.722.5214
Fax: 724.722.5208

March 20, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
401155 Foth & Van Dyke
Pace Project No. 08-1030

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on March 4, 2008 and logged in for analysis on March 5, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS
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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-1030
CLIENT: 401155 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0803-0042	401155001	0803-0043	401155002
0803-0044	401155003	0803-0045	401155004
0803-0046	401155005	0803-0047	401155006
0803-0048	401155007		

C: SHIPPING/RECEIVING COMMENTS:

Final Report 3/20/08.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

000003

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-1030
Groundwater Characterization; 401155 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0803-0042	401155001	(2/28/08)	03/08/08	2.35 ± 1.80	(2.68)
0803-0043	401155002	(2/28/08)	03/08/08	0.118 ± 0.694	(1.81)
0803-0044	401155003	(2/28/08)	03/08/08	1.03 ± 1.36	(2.80)
0803-0045	401155004	(2/28/08)	03/08/08	2.37 ± 1.59	(2.75)
0803-0046	401155005	(2/28/08)	03/08/08	4.11 ± 2.11	(2.73)
0803-0047	401155006	(2/28/08)	03/08/08	2.26 ± 1.76	(2.57)
0803-0048	401155007	(2/28/08)	03/18/08	2.69 ± 1.40	(1.80)
0803-0049	Method Blank	(2/28/08)	03/08/08	0.100 ± 0.526	(1.41)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0803-0042	401155001	(2/28/08)	03/08/08	8.95 ± 2.58	(2.74)
0803-0043	401155002	(2/28/08)	03/08/08	0.562 ± 0.796	(1.75)
0803-0044	401155003	(2/28/08)	03/08/08	7.84 ± 2.11	(1.76)
0803-0045	401155004	(2/28/08)	03/08/08	6.89 ± 1.74	(1.47)
0803-0046	401155005	(2/28/08)	03/08/08	14.2 ± 3.13	(1.62)
0803-0047	401155006	(2/28/08)	03/08/08	17.0 ± 3.78	(1.74)
0803-0048	401155007	(2/28/08)	03/18/08	4.26 ± 1.37	(1.77)
0803-0049	Method Blank	(2/28/08)	03/08/08	0.110 ± 0.826	(2.00)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

000005

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Quality Control Sample Performance Assessment

3/20/08

Test:	Gross Alpha
Analyst:	RMD
Date:	3/10/2008
Worklist:	16203
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.100
M/B Counting Uncertainty:	0.526
MB MDC:	1.409
MB Numerical Performance Indicator:	0.37
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/8/2008	3/8/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.336	93.336
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	42.757	39.240
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	9.042	8.336
Numerical Performance Indicator:	-0.81	-1.65
Percent Recovery:	91.62%	84.08%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS
Duplicate Sample I.D.	LCSD
Sample Result (pCi/L, g, F):	42.757
Sample Result Counting Uncertainty (pCi/L, g, F):	9.042
Sample Duplicate Result (pCi/L, g, F):	39.240
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	8.336
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.561
Duplicate RPD:	8.58%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	2/21/2008
Sample I.D.	0802-1238
Sample MS I.D.	0802-1238MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.336
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	93.336
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.854
Sample Result:	0.296
Sample Result Counting Uncertainty (pCi/L, g, F):	0.579
Sample Matrix Spike Result:	101.681
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	20.337
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.745
MSD Numerical Performance Indicator:	
MS Percent Recovery:	108.62%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

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Quality Control Sample Performance Assessment

3/20/08

Test:	Gross Beta
Analyst:	RMD
Date:	3/10/2008
Worklist:	16203
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.110
M/B Counting Uncertainty:	0.826
MB MDC:	2.001
MB Numerical Performance Indicator:	0.26
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/8/2008	3/8/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.715	39.715
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.858	19.858
Uncertainty (Calculated):	0.467	0.467
Result (pCi/L, g, F):	21.190	18.671
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.717	4.259
Numerical Performance Indicator:	0.55	-0.54
Percent Recovery:	106.71%	94.02%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS
Duplicate Sample I.D.	LCSD
Sample Result (pCi/L, g, F):	21.190
Sample Result Counting Uncertainty (pCi/L, g, F):	4.717
Sample Duplicate Result (pCi/L, g, F):	18.671
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.259
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.777
Duplicate RPD:	12.64%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	2/21/2008
Sample I.D.	0802-1238
Sample MS I.D.	0802-1238MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.757
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.757
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.935
Sample Result:	1.510
Sample Result Counting Uncertainty (pCi/L, g, F):	0.682
Sample Matrix Spike Result:	41.162
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	8.388
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-0.024
MSD Numerical Performance Indicator:	
MS Percent Recovery:	99.73%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 2/29	Sending Project No:	401155
Receiving Region:	Pace-PA	Receiving Project No:	08-1030
State of Sample Origin:	MN	Date IRWO / Sub-COC Prepared:	2/29/08
Sending Project Manager:	TOD NOLTEMEYER	REQUESTED COMPLETION DATE:	3/21/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	7	$ 60.00	$ 420.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 420.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 420.00	$ 336.00	$ 84.00
Total			$ 336.00	$ 84.00

P = Poly
G = Glass
AG = Amber Glass

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Sub-COC

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				
Analyses	Gross Alpha/Beta				

Client Sample ID	Pace Lab Number		Collect Date/Time	Matrix	Method	900				
HPL-003 3'	401155001	0803-0042	02/28/08	W		X				
FBK-003	401155002	0043	02/28/08	W		X				
HPL-003 15'	401155003	0044	02/28/08	W		X				
HPL-003 60'	401155004	0045	02/28/08	W		X				
HPL-003 120'	401155005	0046	02/28/08	W		X				
HPL-003 175'	401155006	0047	02/28/08	W		X				
DUP-003	401155007	0048 ~~MB-0049~~	02/28/08	W		X				

Relinquished By: Steve Dopkins Date/Time: 3/3/08 1400 Received By: [illegible] Date/Time:

Relinquished By: Date/Time: Received By: [illegible] Date/Time: 3/4/08 10:20

Receipt Temperature =

Confirmation of Work Completed By Receiving PM: Date:

DISPOSITION of FORM: When work is completed, copy of Sub-COC/IRWO goes to ABM

GBC013a (07June2006)

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson Project # 401155

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Poly Bag

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:** VMW

Date and Initials of person examining contents: GB 2/29/08

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 2/29/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

VMWY

COC No. 20080228

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other Zn Ac, NaOH

(Please Print Clearly)

Company Name:	NORTH JACKSON CO
Branch/Location:	MARQUETTE, MI
Project Contact:	SHARON FELIX
Phone:	
Project Number:	
Project Name:	HUMBOLDT MILL
Project State:	MI
Sampled By (Print):	Andrew Moracini Chris Cantwell
Sampled By (Sign):	
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	~~JANIS KESY~~ Sharon Felix
Mail To Company:	FOTH I & E
Mail To Address:	GREEN BAY, WI
Invoice To Contact:	SAME AS ABOVE
Invoice To Company:	SAME AS ABOVE
Invoice To Address:	SAME AS ABOVE
Invoice To Phone:	SAME AS ABOVE

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☑ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) / PRESERVATION (CODE)*

Analyses Requested (See F&UD Parameter List)

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N	N	N	~~N~~ N	N	Y	N			CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Pick Letter	D	C	A	J	C	G					
001	HPL-003 3'	2/28/08	1310	SW		2	2	4	1	1	1			1-500mL Sterile	1-1L, 4-500mL, 3-250mL, 2-4	
002	FBK-003	2/28/08	1045	W		2	3	4	1	—	1				1-1L, 3-500mL, 4-250mL, 2-4oz	
003	HPL-003 15'	2/28/08	1330	W		2	2	4	1	1	1				1-1L, 4-500mL, 3-250mL, 2-4oz A	
004	HPL-003 60'	2/28/08	1350	W		2	2	4	1	1	1				↓	
005	HPL-003 120'	2/28/08	1430	W		2	2	4	1	1	1				1-1L, 3-500mL, 4-250mL, 2-4oz A6	
006	HPL-003 175'	2/28/08	1505	W		2	2	4	1	1	1				↓	
007	DUP-003	2/28/08	—	W		2	2	4	1	1	1			↓	↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/28/08 1800	FedEx	
FedEx	2/29/08 1045	[signature]	2/29/08 1045

PACE Project No. 401155

Receipt Temp = 2 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

Batch No. 401290

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

March 26, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL
Pace Project No.: 401290

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on March 06, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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nelac

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CERTIFICATIONS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: HUMBOLDT MILL
Pace Project No.: 401290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
401290001	FBK-005	Water	03/05/08 11:45	03/06/08 08:53
401290002	DUP-005	Water	03/05/08 00:00	03/06/08 08:53
401290003	HTP-002	Water	03/05/08 10:30	03/06/08 08:53
401290004	WLD-002	Water	03/05/08 13:00	03/06/08 08:53
401290005	WLD-003	Water	03/05/08 13:45	03/06/08 08:53
401290006	LKL-001	Water	03/05/08 15:00	03/06/08 08:53
401290007	LKL-002	Water	03/05/08 16:15	03/06/08 08:53

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 401290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
401290001	FBK-005	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	1	PASI-G
401290002	DUP-005	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401290003	HTP-002	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401290004	WLD-002	EPA 1631E	TLH	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 401290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401290005	WLD-003	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401290006	LKL-001	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401290007	LKL-002	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 401290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/1039

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401216002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 3499)
  - Magnesium
  - Nickel
  - Potassium
  - Sodium
- MSD (Lab ID: 3500)
  - Nickel
  - Potassium
  - Sodium

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: EPA 300.0
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1049

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401290003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 2815)
  - Nitrite as N
- MSD (Lab ID: 2816)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/1049

1j: No sample time noted on chain of custody.

- DUP-005 (Lab ID: 401290002)
  - Nitrite as N

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1050

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401290003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 2820)
  - Sulfate
- MSD (Lab ID: 2821)
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: EPA 335.4
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1092

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401324002,401443001

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 4972)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/1092

- MS (Lab ID: 4971)
  - Cyanide

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: EPA 350.1
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1082

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401168008,401342003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 4470)
  - Nitrogen, Ammonia
- MSD (Lab ID: 4471)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
6 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: FBK-005 **Lab ID: 401290001** Collected: 03/05/08 11:45 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.216J**	ng/L	0.50	0.16	1	03/13/08 08:15	03/14/08 13:02	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**5.8J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 01:24	7429-90-5	
Antimony	ND	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 01:24	7440-36-0	
Arsenic	ND	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 01:24	7440-38-2	
Barium	**0.28J**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 01:24	7440-39-3	B
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 01:24	7440-41-7	
Boron	**9.0J**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 01:24	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 01:24	7440-43-9	
Calcium	**98.0J**	ug/L	500	10.0	1	03/10/08 16:07	03/12/08 01:24	7440-70-2	B
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 01:24	7440-47-3	
Cobalt	ND	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 15:08	7440-48-4	
Copper	**0.62J**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 01:24	7440-50-8	
Iron	**5.4J**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 01:24	7439-89-6	B
Lead	ND	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 01:24	7439-92-1	
Lithium	**0.16J**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 01:24	7439-93-2	
Magnesium	ND	ug/L	500	52.6	1	03/10/08 16:07	03/12/08 01:24	7439-95-4	
Manganese	**5.6**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 01:24	7439-96-5	
Molybdenum	**0.17J**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 01:24	7439-98-7	
Nickel	**0.37J**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 01:24	7440-02-0	B
Potassium	**110J**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 01:24	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 01:24	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 01:24	7440-22-4	
Sodium	**1380**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 01:24	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 01:24	7440-28-0	
Total Hardness	**0.41J**	mg/L	5.0	0.15	1	03/10/08 16:07	03/12/08 01:24		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 01:24	7440-62-2	
Zinc	**5.7J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 01:24	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	ND	NTU	1.0	0.44	1		03/06/08 14:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**4.4J**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**4.4J**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**26.0**	mg/L	20.0	12.0	1		03/07/08 11:31		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.31	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: FBK-005 **Lab ID: 401290001** Collected: 03/05/08 11:45 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/07/08 13:49		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.20J**	mg/L	0.40	0.085	1		03/06/08 20:51	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/07/08 09:32	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.0J**	mg/L	5.0	1.1	1		03/06/08 20:51	16887-00-6	
Fluoride	ND	mg/L	0.50	0.059	1		03/06/08 20:51	16984-48-8	
Sulfate	ND	mg/L	4.0	0.51	1		03/06/08 20:51	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.012J**	mg/L	0.020	0.0060	1		03/14/08 13:36	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:30	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	ND	mg/L	50.0	10.8	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	2.0	1.4	1		03/10/08 13:13	7440-44-0	M0

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: DUP-005 **Lab ID: 401290002** Collected: 03/05/08 00:00 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.41**	ng/L	0.50	0.16	1	03/13/08 08:15	03/14/08 13:06	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**5.1J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 01:30	7429-90-5	
Antimony	ND	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 01:30	7440-36-0	
Arsenic	**1.2**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 01:30	7440-38-2	
Barium	**14.9**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 01:30	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 01:30	7440-41-7	
Boron	**31.0**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 01:30	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 01:30	7440-43-9	
Calcium	**15200**	ug/L	500	10.0	1	03/10/08 16:07	03/12/08 01:30	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 01:30	7440-47-3	
Cobalt	**0.28J**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 15:14	7440-48-4	
Copper	**0.13J**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 01:30	7440-50-8	
Iron	**2810**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 01:30	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 01:30	7439-92-1	
Lithium	**4.4**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 01:30	7439-93-2	
Magnesium	**7300**	ug/L	500	52.6	1	03/10/08 16:07	03/12/08 01:30	7439-95-4	
Manganese	**497**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 01:30	7439-96-5	
Molybdenum	**0.58J**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 01:30	7439-98-7	
Nickel	**1.9**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 01:30	7440-02-0	B
Potassium	**2850**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 01:30	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 01:30	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 01:30	7440-22-4	
Sodium	**2000**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 01:30	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 01:30	7440-28-0	
Total Hardness	**68.0**	mg/L	5.0	0.15	1	03/10/08 16:07	03/12/08 01:30		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 01:30	7440-62-2	
Zinc	**5.0J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 01:30	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**6.9**	NTU	1.0	0.44	1		03/06/08 14:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**71.0**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**71.0**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**86.0**	mg/L	20.0	12.0	1		03/07/08 11:32		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**5.7**	mg/L	1.0	0.31	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: DUP-005 **Lab ID: 401290002** Collected: 03/05/08 00:00 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/07/08 13:49		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	ND	mg/L	0.40	0.085	1		03/06/08 21:05	14797-55-8	
Nitrite as N	**0.10**	mg/L	0.10	0.036	1		03/07/08 09:47	14797-65-0	1j
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5J**	mg/L	5.0	1.1	1		03/06/08 21:05	16887-00-6	
Fluoride	**0.41J**	mg/L	0.50	0.059	1		03/06/08 21:05	16984-48-8	
Sulfate	**3.3J**	mg/L	4.0	0.51	1		03/06/08 21:05	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0079J**	mg/L	0.020	0.0060	1		03/14/08 13:38	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:31	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**35.3J**	mg/L	50.0	10.8	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**10.1**	mg/L	2.0	1.4	1		03/10/08 13:25	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**10.4**	mg/L	2.0	1.4	1		03/19/08 07:55		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: HTP-002 **Lab ID: 401290003** Collected: 03/05/08 10:30 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.45**	ng/L	0.50	0.16	1	03/13/08 08:15	03/14/08 13:10	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**11.0J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 01:36	7429-90-5	
Antimony	ND	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 01:36	7440-36-0	
Arsenic	**1.1**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 01:36	7440-38-2	
Barium	**13.8**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 01:36	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 01:36	7440-41-7	
Boron	**28.9**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 01:36	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 01:36	7440-43-9	
Calcium	**14200**	ug/L	500	10.0	1	03/10/08 16:07	03/12/08 01:36	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 01:36	7440-47-3	
Cobalt	**0.28J**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 15:20	7440-48-4	
Copper	**0.75J**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 01:36	7440-50-8	
Iron	**2660**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 01:36	7439-89-6	
Lead	**0.060J**	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 01:36	7439-92-1	
Lithium	**3.8**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 01:36	7439-93-2	
Magnesium	**6880**	ug/L	500	52.6	1	03/10/08 16:07	03/12/08 01:36	7439-95-4	
Manganese	**454**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 01:36	7439-96-5	
Molybdenum	**0.50J**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 01:36	7439-98-7	
Nickel	**1.8**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 01:36	7440-02-0	B
Potassium	**2680**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 01:36	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 01:36	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 01:36	7440-22-4	
Sodium	**1870**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 01:36	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 01:36	7440-28-0	
Total Hardness	**63.7**	mg/L	5.0	0.15	1	03/10/08 16:07	03/12/08 01:36		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 01:36	7440-62-2	
Zinc	**6.1J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 01:36	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**6.6**	NTU	1.0	0.44	1		03/06/08 14:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**73.3**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**73.3**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**84.0**	mg/L	20.0	12.0	1		03/07/08 11:33		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.6**	mg/L	2.0	0.62	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: HTP-002 **Lab ID: 401290003** Collected: 03/05/08 10:30 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/07/08 13:49		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.19J**	mg/L	0.40	0.085	1		03/06/08 21:20	14797-55-8	
Nitrite as N	**0.13**	mg/L	0.10	0.036	1		03/07/08 10:01	14797-65-0	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.1J**	mg/L	5.0	1.1	1		03/06/08 21:20	16887-00-6	
Fluoride	**0.47J**	mg/L	0.50	0.059	1		03/06/08 21:20	16984-48-8	
Sulfate	ND	mg/L	4.0	0.51	1		03/06/08 21:20	14808-79-8	M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0084J**	mg/L	0.020	0.0060	1		03/14/08 13:39	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:31	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**30.8J**	mg/L	50.0	10.8	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.0**	mg/L	2.0	1.4	1		03/10/08 13:30	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**9.2**	mg/L	2.0	1.4	1		03/19/08 07:55		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: WLD-002 **Lab ID: 401290004** Collected: 03/05/08 13:00 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**3.37**	ng/L	0.50	0.16	1	03/13/08 08:15	03/14/08 13:14	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**39.0J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 01:42	7429-90-5	
Antimony	ND	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 01:42	7440-36-0	
Arsenic	**0.38J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 01:42	7440-38-2	
Barium	**31.0**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 01:42	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 01:42	7440-41-7	
Boron	**8.0J**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 01:42	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 01:42	7440-43-9	
Calcium	**11300**	ug/L	500	10.0	1	03/10/08 16:07	03/12/08 01:42	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 01:42	7440-47-3	
Cobalt	**0.27J**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 15:38	7440-48-4	
Copper	**0.41J**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 01:42	7440-50-8	
Iron	**19700**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 01:42	7439-89-6	
Lead	**0.12J**	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 01:42	7439-92-1	
Lithium	**0.25J**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 01:42	7439-93-2	
Magnesium	**1980**	ug/L	500	52.6	1	03/10/08 16:07	03/12/08 01:42	7439-95-4	
Manganese	**253**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 01:42	7439-96-5	
Molybdenum	ND	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 01:42	7439-98-7	
Nickel	**0.33J**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 01:42	7440-02-0	B
Potassium	**1090**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 01:42	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 01:42	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 01:42	7440-22-4	
Sodium	**753**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 01:42	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 01:42	7440-28-0	
Total Hardness	**36.4**	mg/L	5.0	0.15	1	03/10/08 16:07	03/12/08 01:42		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 01:42	7440-62-2	
Zinc	**15.2**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 01:42	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**7.8**	NTU	1.0	0.44	1		03/06/08 14:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**37.7**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**37.7**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**88.0**	mg/L	20.0	12.0	1		03/07/08 11:35		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**30.5**	mg/L	2.5	0.78	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: WLD-002 **Lab ID: 401290004** Collected: 03/05/08 13:00 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/07/08 13:49		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.15J**	mg/L	0.40	0.085	1		03/06/08 22:02	14797-55-8	
Nitrite as N	**0.17**	mg/L	0.10	0.036	1		03/07/08 10:43	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		03/06/08 22:02	16887-00-6	
Fluoride	**0.23J**	mg/L	0.50	0.059	1		03/06/08 22:02	16984-48-8	
Sulfate	ND	mg/L	4.0	0.51	1		03/06/08 22:02	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0087J**	mg/L	0.020	0.0060	1		03/14/08 13:39	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.1**	mg/L	1.0	0.50	1		03/13/08 14:42	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**77.7**	mg/L	50.0	10.8	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**26.5**	mg/L	2.0	1.4	1		03/10/08 13:51	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**22.7**	mg/L	2.0	1.4	1		03/19/08 07:55		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: WLD-003 **Lab ID: 401290005** Collected: 03/05/08 13:45 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.24**	ng/L	0.50	0.16	1	03/13/08 08:15	03/14/08 13:33	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**12.1J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 01:48	7429-90-5	
Antimony	ND	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 01:48	7440-36-0	
Arsenic	**0.40J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 01:48	7440-38-2	
Barium	**32.0**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 01:48	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 01:48	7440-41-7	
Boron	**12.8**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 01:48	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 01:48	7440-43-9	
Calcium	**10500**	ug/L	500	10.0	1	03/10/08 16:07	03/12/08 01:48	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 01:48	7440-47-3	
Cobalt	**0.42J**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 15:44	7440-48-4	
Copper	**0.16J**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 01:48	7440-50-8	
Iron	**7350**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 01:48	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 01:48	7439-92-1	
Lithium	**0.27J**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 01:48	7439-93-2	
Magnesium	**2060**	ug/L	500	52.6	1	03/10/08 16:07	03/12/08 01:48	7439-95-4	
Manganese	**2010**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 01:48	7439-96-5	
Molybdenum	**0.11J**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 01:48	7439-98-7	
Nickel	**0.29J**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 01:48	7440-02-0	B
Potassium	**1210**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 01:48	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 01:48	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 01:48	7440-22-4	
Sodium	**841**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 01:48	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 01:48	7440-28-0	
Total Hardness	**34.7**	mg/L	5.0	0.15	1	03/10/08 16:07	03/12/08 01:48		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 01:48	7440-62-2	
Zinc	**6.0J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 01:48	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.3**	NTU	1.0	0.44	1		03/06/08 14:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**35.5**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**35.5**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**76.0**	mg/L	20.0	12.0	1		03/07/08 11:35		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**18.8**	mg/L	2.0	0.62	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: WLD-003 **Lab ID: 401290005** Collected: 03/05/08 13:45 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/07/08 13:49		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	ND	mg/L	0.40	0.085	1		03/06/08 22:16	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/07/08 10:57	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3J**	mg/L	5.0	1.1	1		03/06/08 22:16	16887-00-6	
Fluoride	**0.23J**	mg/L	0.50	0.059	1		03/06/08 22:16	16984-48-8	
Sulfate	**7.0**	mg/L	4.0	0.51	1		03/06/08 22:16	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0091J**	mg/L	0.020	0.0060	1		03/14/08 13:40	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/13/08 14:42	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**37.5J**	mg/L	50.0	10.8	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.7**	mg/L	2.0	1.4	1		03/10/08 13:55	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**10.1**	mg/L	2.0	1.4	1		03/19/08 07:55		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: LKL-001 **Lab ID: 401290006** Collected: 03/05/08 15:00 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.507**	ng/L	0.50	0.16	1	03/13/08 08:15	03/14/08 13:37	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**8.0J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 01:54	7429-90-5	
Antimony	ND	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 01:54	7440-36-0	
Arsenic	**0.61J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 01:54	7440-38-2	
Barium	**3.0**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 01:54	7440-39-3	B
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 01:54	7440-41-7	
Boron	**12.7**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 01:54	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 01:54	7440-43-9	
Calcium	**8480**	ug/L	500	10.0	1	03/10/08 16:07	03/12/08 01:54	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 01:54	7440-47-3	
Cobalt	ND	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 15:50	7440-48-4	
Copper	**0.31J**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 01:54	7440-50-8	
Iron	**155**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 01:54	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 01:54	7439-92-1	
Lithium	**0.98J**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 01:54	7439-93-2	
Magnesium	**3310**	ug/L	500	52.6	1	03/10/08 16:07	03/12/08 01:54	7439-95-4	
Manganese	**152**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 01:54	7439-96-5	
Molybdenum	**0.68J**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 01:54	7439-98-7	
Nickel	**1.4**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 01:54	7440-02-0	B
Potassium	**1160**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 01:54	7440-09-7	
Selenium	**0.53J**	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 01:54	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 01:54	7440-22-4	
Sodium	**998**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 01:54	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 01:54	7440-28-0	
Total Hardness	**34.8**	mg/L	5.0	0.15	1	03/10/08 16:07	03/12/08 01:54		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 01:54	7440-62-2	
Zinc	**5.5J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 01:54	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.1**	NTU	1.0	0.44	1		03/06/08 14:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**35.5**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**35.5**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**48.0**	mg/L	20.0	12.0	1		03/07/08 11:37		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.40J**	mg/L	1.0	0.31	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: LKL-001 **Lab ID: 401290006** Collected: 03/05/08 15:00 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/07/08 13:49		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.22J**	mg/L	0.40	0.085	1		03/06/08 22:31	14797-55-8	
Nitrite as N	**0.10**	mg/L	0.10	0.036	1		03/07/08 11:12	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		03/06/08 22:31	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		03/06/08 22:31	16984-48-8	
Sulfate	**3.9J**	mg/L	4.0	0.51	1		03/06/08 22:31	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0082J**	mg/L	0.020	0.0060	1		03/14/08 13:41	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/13/08 14:43	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**28.6J**	mg/L	50.0	10.8	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.9**	mg/L	2.0	1.4	1		03/10/08 14:03	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.9**	mg/L	2.0	1.4	1		03/19/08 07:55		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: LKL-002 **Lab ID: 401290007** Collected: 03/05/08 16:15 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.561**	ng/L	0.50	0.16	1	03/13/08 08:15	03/14/08 13:41	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.8J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 02:00	7429-90-5	
Antimony	ND	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 02:00	7440-36-0	
Arsenic	**0.54J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 02:00	7440-38-2	
Barium	**3.5**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 02:00	7440-39-3	B
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 02:00	7440-41-7	
Boron	**12.3**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 02:00	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 02:00	7440-43-9	
Calcium	**8340**	ug/L	500	10.0	1	03/10/08 16:07	03/12/08 02:00	7440-70-2	
Chromium	**0.47J**	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 02:00	7440-47-3	
Cobalt	ND	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 15:56	7440-48-4	
Copper	**0.53J**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 02:00	7440-50-8	
Iron	**235**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 02:00	7439-89-6	
Lead	**0.050J**	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 02:00	7439-92-1	
Lithium	**1.1**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 02:00	7439-93-2	
Magnesium	**3230**	ug/L	500	52.6	1	03/10/08 16:07	03/12/08 02:00	7439-95-4	
Manganese	**214**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 02:00	7439-96-5	
Molybdenum	**0.66J**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 02:00	7439-98-7	
Nickel	**1.7**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 02:00	7440-02-0	B
Potassium	**1130**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 02:00	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 02:00	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 02:00	7440-22-4	
Sodium	**974**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 02:00	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 02:00	7440-28-0	
Total Hardness	**34.1**	mg/L	5.0	0.15	1	03/10/08 16:07	03/12/08 02:00		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 02:00	7440-62-2	
Zinc	**9.5J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 02:00	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.99J**	NTU	1.0	0.44	1		03/06/08 14:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**35.5**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**35.5**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**50.0**	mg/L	20.0	12.0	1		03/07/08 11:38		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.40J**	mg/L	1.0	0.31	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 401290

Sample: LKL-002 **Lab ID: 401290007** Collected: 03/05/08 16:15 Received: 03/06/08 08:53 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/07/08 13:49		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.21J**	mg/L	0.40	0.085	1		03/06/08 23:13	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/07/08 11:54	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		03/06/08 23:13	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		03/06/08 23:13	16984-48-8	
Sulfate	**3.9J**	mg/L	4.0	0.51	1		03/06/08 23:13	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0092J**	mg/L	0.020	0.0060	1		03/14/08 13:42	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/13/08 14:44	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**33.0J**	mg/L	50.0	10.8	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.4**	mg/L	2.0	1.4	1		03/10/08 14:06	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**6.8**	mg/L	2.0	1.4	1		03/19/08 07:55		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WET/1041 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 2810
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	ND	1.0	

LABORATORY CONTROL SAMPLE: 2811

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	542	542	100		

SAMPLE DUPLICATE: 2817

Parameter	Units	401290007 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	0.99J	1.0	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WETA/1049 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 2813
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	ND	0.40	
Nitrite as N	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 2814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.7	105	90-110	
Nitrite as N	mg/L	.8	0.83	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2815 2816

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.19J	1.6	1.6	1.7	1.7	94	96	90-110	2	20	
Nitrite as N	mg/L	0.13	.8	.8	0.15	0.13	2	0	90-110	14	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WETA/1050 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 2818
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	ND	5.0	
Fluoride	mg/L	ND	0.50	
Sulfate	mg/L	ND	4.0	

LABORATORY CONTROL SAMPLE: 2819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.7	103	90-110	
Fluoride	mg/L	2	2.1	107	90-110	
Sulfate	mg/L	16	16.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2820 2821

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.1J	20	20	22.5	21.8	97	94	90-110	3	20	
Fluoride	mg/L	0.47J	2	2	2.4	2.5	98	100	90-110	1	20	
Sulfate	mg/L	ND	16	16	18.4	18.6	115	116	90-110	.9	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WETA/1053 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 401290001, 401290002, 401290003

METHOD BLANK: 2867
Associated Lab Samples: 401290001, 401290002, 401290003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 2868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871 2872

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	10	10	10.9	10.8	106	105	90-110	.8	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WET/1047 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 3018
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	

LABORATORY CONTROL SAMPLE: 3019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	963	914	95	80-120	

SAMPLE DUPLICATE: 3020

Parameter	Units	401290003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	88.0	5	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WET/1049 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 3182
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 3183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	40.8	42.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184 3185

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	40.8	40.8	39.6	40.8	97	100	80-120	3	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WET/1054 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 3371
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 3372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	271	270	100	80-120	

SAMPLE DUPLICATE: 3373

Parameter	Units	401290003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3.6	3.6	0	20	

SAMPLE DUPLICATE: 3374

Parameter	Units	401295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	150	156	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WETA/1065 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 3422
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 3423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	106	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3424 3425

Parameter	Units	1069155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	152	100	100	256	252	104	101	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3426 3427

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	9.0	100	100	114	114	105	105	80-120	.5	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WETA/1066 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 3489
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50.0	

LABORATORY CONTROL SAMPLE: 3490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	489	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3491 3492

Parameter	Units	401342002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	39.5J	500	500	553	542	103	101	90-110	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: MPRP/1039 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 2937
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	ND	50.0	
Antimony	ug/L	ND	1.0	
Arsenic	ug/L	ND	1.0	
Barium	ug/L	0.23J	1.0	
Beryllium	ug/L	ND	1.0	
Boron	ug/L	1.2J	10.0	
Cadmium	ug/L	ND	1.0	
Calcium	ug/L	22.8J	500	
Chromium	ug/L	ND	1.0	
Cobalt	ug/L	ND	1.0	
Copper	ug/L	ND	1.0	
Iron	ug/L	6.9J	50.0	
Lead	ug/L	ND	1.0	
Lithium	ug/L	ND	1.0	
Magnesium	ug/L	ND	500	
Manganese	ug/L	0.19J	1.0	
Molybdenum	ug/L	ND	10.0	
Nickel	ug/L	0.090J	1.0	
Potassium	ug/L	ND	500	
Selenium	ug/L	ND	1.0	
Silver	ug/L	ND	0.50	
Sodium	ug/L	ND	500	
Thallium	ug/L	ND	1.0	
Vanadium	ug/L	ND	1.0	
Zinc	ug/L	6.1J	10.0	

LABORATORY CONTROL SAMPLE: 2938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	75-125	
Antimony	ug/L	200	232	116	75-125	
Arsenic	ug/L	200	226	113	75-125	
Barium	ug/L	200	212	106	75-125	
Beryllium	ug/L	200	210	105	75-125	
Boron	ug/L	200	195	97	75-125	
Cadmium	ug/L	200	221	111	75-125	
Calcium	ug/L	10000	11000	110	75-125	
Chromium	ug/L	200	218	109	75-125	
Cobalt	ug/L	200	206	103	75-125	
Copper	ug/L	200	215	108	75-125	
Iron	ug/L	10000	11000	110	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

LABORATORY CONTROL SAMPLE: 2938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	200	217	108	75-125	
Lithium	ug/L	200	205	102	75-125	
Magnesium	ug/L	10000	10200	102	75-125	
Manganese	ug/L	200	223	111	75-125	
Molybdenum	ug/L	200	217	108	75-125	
Nickel	ug/L	200	215	107	75-125	
Potassium	ug/L	10000	10500	105	75-125	
Selenium	ug/L	200	234	117	75-125	
Silver	ug/L	100	106	106	75-125	
Sodium	ug/L	10000	10100	101	75-125	
Thallium	ug/L	200	214	107	75-125	
Vanadium	ug/L	200	219	110	75-125	
Zinc	ug/L	200	225	113	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3499 3500

Parameter	Units	401216002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	19.3J	10000	10000	8740	8870	87	88	75-125	1	20	
Antimony	ug/L	48.8	200	200	255	251	103	101	75-125	1	20	
Arsenic	ug/L	0.43J	200	200	204	198	102	99	75-125	3	20	
Barium	ug/L	15.8	200	200	204	206	94	95	75-125	.7	20	
Beryllium	ug/L	ND	200	200	178	177	89	88	75-125	1	20	
Boron	ug/L	164	200	200	326	329	81	82	75-125	.8	20	
Cadmium	ug/L	ND	200	200	190	192	95	96	75-125	.9	20	
Calcium	ug/L	54600	10000	10000	70000	64900	154	103	75-125	8	20	P6
Chromium	ug/L	0.59J	200	200	188	190	94	95	75-125	.8	20	
Cobalt	ug/L	21.6	200	200	190	204	84	91	75-125	7	20	
Copper	ug/L	4.4	200	200	183	182	89	89	75-125	.3	20	
Iron	ug/L	173	10000	10000	9730	9780	96	96	75-125	.6	20	
Lead	ug/L	0.56J	200	200	199	197	99	98	75-125	1	20	
Lithium	ug/L	3.8	200	200	182	182	89	89	75-125	0	20	
Magnesium	ug/L	29600	10000	10000	42500	40100	129	104	75-125	6	20	M0
Manganese	ug/L	2990	200	200	2800	2750	-96	-118	75-125	2	20	P6
Molybdenum	ug/L	75.9	200	200	260	260	92	92	75-125	.04	20	
Nickel	ug/L	334	200	200	464	465	65	66	75-125	.2	20	M0
Potassium	ug/L	23100	10000	10000	29800	29800	67	67	75-125	.1	20	M0
Selenium	ug/L	0.37J	200	200	208	197	104	99	75-125	5	20	
Silver	ug/L	ND	100	100	83.4	87.7	83	88	75-125	5	20	
Sodium	ug/L	34300	10000	10000	39200	39400	50	52	75-125	.5	20	M0
Thallium	ug/L	ND	200	200	197	193	98	97	75-125	2	20	
Vanadium	ug/L	ND	200	200	193	194	96	97	75-125	.6	20	
Zinc	ug/L	7.9J	200	200	194	190	93	91	75-125	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WET/1060 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 3514
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	10.0	
Alkalinity, Total as CaCO3	mg/L	ND	10.0	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 3515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3516 3517

Parameter	Units	401216001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	500	500	504	502	100	100	80-120	.4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WETA/1082 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 4466
Associated Lab Samples: 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 4467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4468 4469

Parameter	Units	401168008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	2700	10	10	2700	2800	-2	1090	90-110	4	20	P6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4470 4471

Parameter	Units	401342003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	10	10	8.7	8.8	84	86	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: CVFS/1015 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 4650
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.316J	0.50	

METHOD BLANK: 4651
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.373J	0.50	

METHOD BLANK: 4652
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.339J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 4653 4654

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.03	5.14	101	103	79-121	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5264 5265

Parameter	Units	9214779006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.69	5	5	7.22	6.95	111	105	75-124	4	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5266 5267

Parameter	Units	9214779008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	21.6	40	40	59.7	63.1	95	104	75-124	6	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5268 5269

Parameter	Units	401310004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.93	5	5	7.36	7.06	109	103	75-124	4	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WETA/1092 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 4969
Associated Lab Samples: 401290001, 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	0.0061J	0.020	

LABORATORY CONTROL SAMPLE: 4970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4971 4972

Parameter	Units	401324002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.057J	.6	.6	0.69	0.74	105	114	90-110	7	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4973 4974

Parameter	Units	401443001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.010J	.1	.1	0.11	0.12	105	108	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 401290

QC Batch: WETA/1117 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

METHOD BLANK: 6072
Associated Lab Samples: 401290002, 401290003, 401290004, 401290005, 401290006, 401290007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 6073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	99.2	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6074 6075

Parameter	Units	401216003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	9.4	100	100	107	110	98	101	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6076 6077

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	9.2	100	100	111	116	101	107	80-120	5	20	

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QUALIFIERS

Project: HUMBOLDT MILL
Pace Project No.: 401290

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1j	No sample time noted on chain of custody.
B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401290001	FBK-005	SM 2130B	WET/1041		
401290002	DUP-005	SM 2130B	WET/1041		
401290003	HTP-002	SM 2130B	WET/1041		
401290004	WLD-002	SM 2130B	WET/1041		
401290005	WLD-003	SM 2130B	WET/1041		
401290006	LKL-001	SM 2130B	WET/1041		
401290007	LKL-002	SM 2130B	WET/1041		
401290001	FBK-005	EPA 300.0	WETA/1049		
401290002	DUP-005	EPA 300.0	WETA/1049		
401290003	HTP-002	EPA 300.0	WETA/1049		
401290004	WLD-002	EPA 300.0	WETA/1049		
401290005	WLD-003	EPA 300.0	WETA/1049		
401290006	LKL-001	EPA 300.0	WETA/1049		
401290007	LKL-002	EPA 300.0	WETA/1049		
401290001	FBK-005	EPA 300.0	WETA/1050		
401290002	DUP-005	EPA 300.0	WETA/1050		
401290003	HTP-002	EPA 300.0	WETA/1050		
401290004	WLD-002	EPA 300.0	WETA/1050		
401290005	WLD-003	EPA 300.0	WETA/1050		
401290006	LKL-001	EPA 300.0	WETA/1050		
401290007	LKL-002	EPA 300.0	WETA/1050		
401290001	FBK-005	EPA 350.1	WETA/1053		
401290002	DUP-005	EPA 350.1	WETA/1053		
401290003	HTP-002	EPA 350.1	WETA/1053		
401290001	FBK-005	SM 2540C	WET/1047		
401290002	DUP-005	SM 2540C	WET/1047		
401290003	HTP-002	SM 2540C	WET/1047		
401290004	WLD-002	SM 2540C	WET/1047		
401290005	WLD-003	SM 2540C	WET/1047		
401290006	LKL-001	SM 2540C	WET/1047		
401290007	LKL-002	SM 2540C	WET/1047		
401290001	FBK-005	SM 4500-S F (2000)	WET/1049		
401290002	DUP-005	SM 4500-S F (2000)	WET/1049		
401290003	HTP-002	SM 4500-S F (2000)	WET/1049		
401290004	WLD-002	SM 4500-S F (2000)	WET/1049		
401290005	WLD-003	SM 4500-S F (2000)	WET/1049		
401290006	LKL-001	SM 4500-S F (2000)	WET/1049		
401290007	LKL-002	SM 4500-S F (2000)	WET/1049		
401290001	FBK-005	SM 2540D	WET/1054		
401290002	DUP-005	SM 2540D	WET/1054		
401290003	HTP-002	SM 2540D	WET/1054		
401290004	WLD-002	SM 2540D	WET/1054		
401290005	WLD-003	SM 2540D	WET/1054		
401290006	LKL-001	SM 2540D	WET/1054		
401290007	LKL-002	SM 2540D	WET/1054		

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401290001	FBK-005	SM 5310C	WETA/1065		
401290002	DUP-005	SM 5310C	WETA/1065		
401290003	HTP-002	SM 5310C	WETA/1065		
401290004	WLD-002	SM 5310C	WETA/1065		
401290005	WLD-003	SM 5310C	WETA/1065		
401290006	LKL-001	SM 5310C	WETA/1065		
401290007	LKL-002	SM 5310C	WETA/1065		
401290001	FBK-005	EPA 410.4	WETA/1066		
401290002	DUP-005	EPA 410.4	WETA/1066		
401290003	HTP-002	EPA 410.4	WETA/1066		
401290004	WLD-002	EPA 410.4	WETA/1066		
401290005	WLD-003	EPA 410.4	WETA/1066		
401290006	LKL-001	EPA 410.4	WETA/1066		
401290007	LKL-002	EPA 410.4	WETA/1066		
401290001	FBK-005	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401290002	DUP-005	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401290003	HTP-002	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401290004	WLD-002	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401290005	WLD-003	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401290006	LKL-001	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401290007	LKL-002	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401290001	FBK-005	SM 2320B	WET/1060		
401290002	DUP-005	SM 2320B	WET/1060		
401290003	HTP-002	SM 2320B	WET/1060		
401290004	WLD-002	SM 2320B	WET/1060		
401290005	WLD-003	SM 2320B	WET/1060		
401290006	LKL-001	SM 2320B	WET/1060		
401290007	LKL-002	SM 2320B	WET/1060		
401290004	WLD-002	EPA 350.1	WETA/1082		
401290005	WLD-003	EPA 350.1	WETA/1082		
401290006	LKL-001	EPA 350.1	WETA/1082		
401290007	LKL-002	EPA 350.1	WETA/1082		
401290001	FBK-005	EPA 1631E	CVFS/1015	EPA 1631E	CVFS/1016
401290002	DUP-005	EPA 1631E	CVFS/1015	EPA 1631E	CVFS/1016
401290003	HTP-002	EPA 1631E	CVFS/1015	EPA 1631E	CVFS/1016
401290004	WLD-002	EPA 1631E	CVFS/1015	EPA 1631E	CVFS/1016
401290005	WLD-003	EPA 1631E	CVFS/1015	EPA 1631E	CVFS/1016
401290006	LKL-001	EPA 1631E	CVFS/1015	EPA 1631E	CVFS/1016
401290007	LKL-002	EPA 1631E	CVFS/1015	EPA 1631E	CVFS/1016
401290001	FBK-005	EPA 335.4	WETA/1092		
401290002	DUP-005	EPA 335.4	WETA/1092		
401290003	HTP-002	EPA 335.4	WETA/1092		
401290004	WLD-002	EPA 335.4	WETA/1092		
401290005	WLD-003	EPA 335.4	WETA/1092		
401290006	LKL-001	EPA 335.4	WETA/1092		
401290007	LKL-002	EPA 335.4	WETA/1092		

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 401290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401290002	DUP-005	SM 5310C	WETA/1117		
401290003	HTP-002	SM 5310C	WETA/1117		
401290004	WLD-002	SM 5310C	WETA/1117		
401290005	WLD-003	SM 5310C	WETA/1117		
401290006	LKL-001	SM 5310C	WETA/1117		
401290007	LKL-002	SM 5310C	WETA/1117		

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Waltz Mill Radiochemistry Lab
P.O. Box 158
Bldg. G, M/S 62
Madison, PA 15663
Phone: 724.722.5214
Fax: 724.722.5208

March 25, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
401290 Foth & Van Dyke
Pace Project No. 08-1115

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on March 7, 2008 and logged in for analysis on March 10, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:tew

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-1115
CLIENT: 401290 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0803-0233	401290001 (FBK-005)	0803-0234	401290002 (DUP-005)
0803-0235	401290003 (HTP-002)	0803-0236	401290004 (WLD-002)
0803-0237	401290005 (WLD-003)	0803-0238	401290006 (LKL-001)
0803-0239	401290007 (LKL-002)		

C: SHIPPING/RECEIVING COMMENTS:

Final Report

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

000003

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-1115
Groundwater Characterization; 401290 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Analyzed	Act ± Unc	(MDC)
0803-0233	401290001 (FBK-005)	(3/5/08)	03/21/08	0.183 ± 0.646	(1.55)
0803-0234	401290002 (DUP-005)	(3/5/08)	03/21/08	0.341 ± 0.521	(1.10)
0803-0235	401290003 (HTP-002)	(3/5/08)	03/21/08	-0.079 ± 0.327	(1.05)
0803-0236	401290004 (WLD-002)	(3/5/08)	03/21/08	0.431 ± 0.710	(1.55)
0803-0237	401290005 (WLD-003)	(3/5/08)	03/21/08	0.111 ± 0.529	(1.43)
0803-0238	401290006 (LKL-001)	(3/5/08)	03/21/08	0.317 ± 0.716	(1.64)
0803-0239	401290007 (LKL-002)	(3/5/08)	03/21/08	-0.037 ± 0.424	(1.19)
0803-0240	Method Blank	(3/7/08)	03/20/08	0.322 ± 0.616	(1.41)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0803-0233	401290001 (FBK-005)	(3/5/08)	03/21/08	1.17 ± 1.34	(2.81)
0803-0234	401290002 (DUP-005)	(3/5/08)	03/21/08	3.58 ± 1.32	(2.04)
0803-0235	401290003 (HTP-002)	(3/5/08)	03/21/08	2.59 ± 1.07	(1.74)
0803-0236	401290004 (WLD-002)	(3/5/08)	03/21/08	2.08 ± 1.05	(1.90)
0803-0237	401290005 (WLD-003)	(3/5/08)	03/21/08	1.18 ± 0.933	(1.85)
0803-0238	401290006 (LKL-001)	(3/5/08)	03/21/08	0.958 ± 0.956	(2.00)
0803-0239	401290007 (LKL-002)	(3/5/08)	03/21/08	1.54 ± 0.985	(1.91)
0803-0240	Method Blank	(3/7/08)	03/20/08	0.241 ± 0.779	(1.83)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

0000005

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Quality Control Sample Performance Assessment

Test:	Gross Alpha
Analyst:	RMD
Date:	3/21/2008
Worklist:	16230R
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.322
M/B Counting Uncertainty:	0.616
MB MDC:	1.409
MB Numerical Performance Indicator:	1.02
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/20/2008	3/20/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.335	93.335
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	39.089	40.245
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.431	4.433
Numerical Performance Indicator:	-2.80	-2.37
Percent Recovery:	83.76%	86.24%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16230R
Duplicate Sample I.D.	LCSD16230R
Sample Result (pCi/L, g, F):	39.089
Sample Result Counting Uncertainty (pCi/L, g, F):	4.431
Sample Duplicate Result (pCi/L, g, F):	40.245
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.433
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.361
Duplicate RPD:	2.91%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/6/2008
Sample I.D.	0803-0471
Sample MS I.D.	0803-0471MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.336
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.095
MS Target Conc.(pCi/L, g, F):	196.496
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	12.324
Sample Result:	1.952
Sample Result Counting Uncertainty (pCi/L, g, F):	1.443
Sample Matrix Spike Result:	215.173
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	22.720
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	1.266
MSD Numerical Performance Indicator:	
MS Percent Recovery:	108.51%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

000006

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Quality Control Sample Performance Assessment

Test:	Gross Beta
Analyst:	RMD
Date:	3/21/2008
Worklist:	16230R
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.241
M/B Counting Uncertainty:	0.779
MB MDC:	1.829
MB Numerical Performance Indicator:	0.61
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/20/2008	3/20/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.684	39.684
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.842	19.842
Uncertainty (Calculated):	0.467	0.467
Result (pCi/L, g, F):	17.356	16.685
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.403	2.470
Numerical Performance Indicator:	-1.99	-2.46
Percent Recovery:	87.47%	84.09%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/6/2008
Sample I.D.	0803-0471
Sample MS I.D.	0803-0471MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.721
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.095
MS Target Conc.(pCi/L, g, F):	83.623
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	1.967
Sample Result:	2.351
Sample Result Counting Uncertainty (pCi/L, g, F):	1.006
Sample Matrix Spike Result:	85.436
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	7.369
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-0.137
MSD Numerical Performance Indicator:	
MS Percent Recovery:	99.36%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS16230R
Duplicate Sample I.D.	LCSD16230R
Sample Result (pCi/L, g, F):	17.356
Sample Result Counting Uncertainty (pCi/L, g, F):	2.403
Sample Duplicate Result (pCi/L, g, F):	16.685
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.470
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.362
Duplicate RPD:	3.94%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Pace Analytical Inter-Laboratory IRWO / Sub-COC

Inter-Laboratory Work Order # 401290

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 3/6	Sending Project No:	401290
Receiving Region:	Pace-PA	Receiving Project No:	08-1115
State of Sample Origin:	MI	Date IRWO / Sub-COC Prepared:	3/6/08
Sending Project Manager:	TOD NOLTEMEYER	REQUESTED COMPLETION DATE:	3/19/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	7	$ 60.00	$ 420.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 420.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 420.00	$ 336.00	$ 84.00
Total			$ 336.00	$ 84.00

Sub-COC

P = Poly
G = Glass
AG = Amber Glass

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Client Sample ID	Pace Lab Number	Collect Date	Matrix	Method	Analyses: Gross Alpha/Beta 900	Collect Time		
FBK-005	401290001 0803-0233	03/05/08	W		X	11:45		
DUP-005	401290002 0234	03/05/08	W		X			
HTP-002	401290003 0235	03/05/08	W		X	10:30		
WLD-002	401290004 0236	03/05/08	W		X	13:00		
WLD-003	401290005 0237	03/05/08	W		X	13:45		
LKL-001	401290006 0238	03/05/08	W		X	15:00		
LKL-002	401290007 0239	03/05/08	W		X	16:15		
		3/10/08						
	MB - 0240							

Relinquished By: [signature] Date/Time: 3-6-08 1026 Received By: [signature] Date/Time:

Relinquished By: Date/Time: Received By: [signature] Date/Time: 3/7/08 10:39

Receipt Temperature =

Confirmation of Work Completed By Receiving PM: Date:

DISPOSITION of FORM: When work is completed, copy of Sub-COC/IRWO goes to ABM

GBC013a (07June2006)

0000007

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson Project # 401290

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2° Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: G 3/6/08, 9 3/6/08

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☑No ☐N/A	6. 48 hrs.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed CJ Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 3/6/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

COC No. 20080305

(Please Print Clearly)	
Company Name:	NORTH JACKSON CO
Branch/Location:	MARQUETTE, MI
Project Contact:	SHARON FELIX
Phone:	
Project Number:	
Project Name:	HUMBOLDT MILL
Project State:	MI
Sampled By (Print):	P Sabee L Maciver
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	~~JANIS KESY~~ Sharon Felix
Mail To Company:	FOTH I & E
Mail To Address:	GREEN BAY, WI
Invoice To Contact:	SAME AS ABOVE
Invoice To Company:	SAME AS ABOVE
Invoice To Address:	SAME AS ABOVE
Invoice To Phone:	SAME AS ABOVE

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other ZnAc NaOH

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☑ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID		COLLECTION DATE	TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	AK, Alk 2, Cl, Fl, SO4, TOX, Turbidity, LLHg, N-Nitrate, TSS	Ammonia, COD	TOC	Metals	Gross Alpha Beta	Cyanide	Sulfide	DOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	FBK-005	001	3/5/08	1145	W		N A	4	N C	2	N D	2	N G	1	N J	1	1-1L, 1-500mL	2-500mL[D], 1-500mL[A], 1-500mL[A], 1-250mL[A], 2-250mL
002	DUP-005	002	1	—	SW		N A	4	N C	2	N D	2	N G	1	N J	1	1-1L, 1-500mL, 2-500mL[D], 1-500mL[A], 1-500mL[A], 1-250mL[A], 2-250mL	
003	~~HTP-002~~		~~3-5-08~~	~~0930~~	~~SW~~												~~1-1L, 1-500mL, 2-500mL[D], 3-500mL[J], 1-500mL[A], 1-250mL[A], 6-40z[A6], 2-250mL~~	
004	HTP-002	003	3/5/08	1030	SW		N A	4	N C	4	N D	2	N G	1	N J	3	Y C	3	1-1L, 1-500mL, 2-500mL[D], 3-500mL[J], 1-500mL[A], 1-250mL[A], 6-40z[A6], 2-250mL
005	WLD-002	004	↓	1300	↓		↓	↓	↓	2	↓	↓	↓	↓	↓	↓	↓	1-1L, 1-500mL, 2-250mL[D], 1-500mL[A], 1-500mL, 1-250mL, 2-250mL
006	WLD-003	005	↓	1345	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
007	LKL-001	006	↓	1500	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
008	LKL-002	007	↓	1615	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	3-5-08 1730	FedEx	
FedEx	3/6/08 935	[signature]	3/6/08 935

PACE Project No. 401290
Receipt Temp = °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

Batch No. 401342

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

March 26, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on March 07, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Green Bay Certification IDs
Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs
Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Lab ID	Sample ID	Matrix	Date Collected	Date Received
401342001	**FBK-006**	Water	03/06/08 00:00	03/07/08 11:46
401342002	**DUP-006**	Water	03/06/08 00:00	03/07/08 11:46
401342003	**MBR-001**	Water	03/06/08 00:00	03/07/08 11:46

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SAMPLE ANALYTE COUNT

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
401342001	FBK-006	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	1	PASI-G
401342002	DUP-006	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401342003	MBR-001	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G

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nelac

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: EPA 1631E
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MPRP/1038

2j: Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 100 times the IDL for analysis done on the ICP-MS. A physical interference was observed.

- MBR-001 (Lab ID: 401342003)
  - Sodium

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WET/1053

- FBK-006 (Lab ID: 401342001)
  - Total Dissolved Solids

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: EPA 300.0
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1061

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401342002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 3309)
  - Chloride
- MSD (Lab ID: 3310)
  - Chloride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/1061

1j: Analyte was detected in the associated method blank. At a concentration of 2.12mg/L.

- DUP-006 (Lab ID: 401342002)
  - Chloride
- FBK-006 (Lab ID: 401342001)
  - Chloride
- MBR-001 (Lab ID: 401342003)
  - Chloride

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nelac

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1092

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401324002,401443001

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 4972)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/1092

- MS (Lab ID: 4971)
  - Cyanide

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: EPA 350.1
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1082

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401168008,401342003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 4470)
  - Nitrogen, Ammonia
- MSD (Lab ID: 4471)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
2 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
3 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Sample: FBK-006 **Lab ID: 401342001** Collected: 03/06/08 00:00 Received: 03/07/08 11:46 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.165J**	ng/L	0.50	0.16	1	03/14/08 02:00	03/17/08 09:40	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.3J**	ug/L	50.0	4.4	1	03/10/08 12:21	03/11/08 21:48	7429-90-5	B
Antimony	**0.14J**	ug/L	1.0	0.10	1	03/10/08 12:21	03/11/08 21:48	7440-36-0	B
Arsenic	**0.12J**	ug/L	1.0	0.093	1	03/10/08 12:21	03/11/08 21:48	7440-38-2	
Barium	**0.14J**	ug/L	1.0	0.072	1	03/10/08 12:21	03/11/08 21:48	7440-39-3	B
Beryllium	**0.10J**	ug/L	1.0	0.070	1	03/10/08 12:21	03/11/08 21:48	7440-41-7	
Boron	**22.7**	ug/L	10.0	1.1	1	03/10/08 12:21	03/11/08 21:48	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 12:21	03/11/08 21:48	7440-43-9	
Calcium	**27.3J**	ug/L	500	10.0	1	03/10/08 12:21	03/11/08 21:48	7440-70-2	
Chromium	**0.52J**	ug/L	1.0	0.43	1	03/10/08 12:21	03/11/08 21:48	7440-47-3	
Cobalt	ND	ug/L	1.0	0.059	1	03/10/08 12:21	03/19/08 13:24	7440-48-4	
Copper	**6.4**	ug/L	1.0	0.12	1	03/10/08 12:21	03/11/08 21:48	7440-50-8	B
Iron	**15.8J**	ug/L	50.0	2.9	1	03/10/08 12:21	03/11/08 21:48	7439-89-6	B
Lead	**0.21J**	ug/L	1.0	0.044	1	03/10/08 12:21	03/11/08 21:48	7439-92-1	B
Lithium	**0.22J**	ug/L	1.0	0.085	1	03/10/08 12:21	03/11/08 21:48	7439-93-2	
Magnesium	ND	ug/L	500	52.6	1	03/10/08 12:21	03/11/08 21:48	7439-95-4	
Manganese	**0.41J**	ug/L	1.0	0.080	1	03/10/08 12:21	03/11/08 21:48	7439-96-5	B
Molybdenum	**0.31J**	ug/L	10.0	0.11	1	03/10/08 12:21	03/11/08 21:48	7439-98-7	B
Nickel	**0.31J**	ug/L	1.0	0.074	1	03/10/08 12:21	03/11/08 21:48	7440-02-0	B
Potassium	ND	ug/L	500	6.2	1	03/10/08 12:21	03/11/08 21:48	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 12:21	03/11/08 21:48	7782-49-2	
Silver	**0.23J**	ug/L	0.50	0.11	1	03/10/08 12:21	03/11/08 21:48	7440-22-4	
Sodium	**255J**	ug/L	500	46.0	1	03/10/08 12:21	03/11/08 21:48	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 12:21	03/11/08 21:48	7440-28-0	
Total Hardness	ND	mg/L	5.0	0.15	1	03/10/08 12:21	03/11/08 21:48		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 12:21	03/11/08 21:48	7440-62-2	
Zinc	**12.7**	ug/L	10.0	2.1	1	03/10/08 12:21	03/11/08 21:48	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	ND	NTU	1.0	0.44	1		03/07/08 17:33		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**12.0J**	mg/L	20.0	12.0	1		03/08/08 14:42		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.1	0.33	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Sample: FBK-006 **Lab ID: 401342001** Collected: 03/06/08 00:00 Received: 03/07/08 11:46 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/10/08 11:56		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	ND	mg/L	0.40	0.085	1		03/07/08 20:10	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/07/08 23:15	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.0J**	mg/L	5.0	1.1	1		03/07/08 20:10	16887-00-6	1j
Fluoride	**0.22J**	mg/L	0.50	0.059	1		03/07/08 20:10	16984-48-8	
Sulfate	ND	mg/L	4.0	0.51	1		03/07/08 20:10	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.011J**	mg/L	0.020	0.0060	1		03/14/08 13:52	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/13/08 14:47	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**25.4J**	mg/L	52.6	11.3	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.5J**	mg/L	2.0	1.4	1		03/13/08 07:32	7440-44-0	

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Sample: DUP-006 **Lab ID: 401342002** Collected: 03/06/08 00:00 Received: 03/07/08 11:46 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.63**	ng/L	0.50	0.16	1	03/14/08 02:00	03/17/08 10:00	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**37.1J**	ug/L	50.0	4.4	1	03/10/08 12:21	03/11/08 21:18	7429-90-5	B
Antimony	ND	ug/L	1.0	0.10	1	03/10/08 12:21	03/11/08 21:18	7440-36-0	
Arsenic	**0.79J**	ug/L	1.0	0.093	1	03/10/08 12:21	03/11/08 21:18	7440-38-2	
Barium	**11.1**	ug/L	1.0	0.072	1	03/10/08 12:21	03/11/08 21:18	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 12:21	03/11/08 21:18	7440-41-7	
Boron	**12.5**	ug/L	10.0	1.1	1	03/10/08 12:21	03/11/08 21:18	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 12:21	03/11/08 21:18	7440-43-9	
Calcium	**11900**	ug/L	500	10.0	1	03/10/08 12:21	03/11/08 21:18	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 12:21	03/11/08 21:18	7440-47-3	
Cobalt	**0.36J**	ug/L	1.0	0.059	1	03/10/08 12:21	03/19/08 12:54	7440-48-4	
Copper	**0.51J**	ug/L	1.0	0.12	1	03/10/08 12:21	03/11/08 21:18	7440-50-8	B
Iron	**1490**	ug/L	50.0	2.9	1	03/10/08 12:21	03/11/08 21:18	7439-89-6	
Lead	**0.16J**	ug/L	1.0	0.044	1	03/10/08 12:21	03/11/08 21:18	7439-92-1	B
Lithium	**1.2**	ug/L	1.0	0.085	1	03/10/08 12:21	03/11/08 21:18	7439-93-2	
Magnesium	**4990**	ug/L	500	52.6	1	03/10/08 12:21	03/11/08 21:18	7439-95-4	
Manganese	**302**	ug/L	1.0	0.080	1	03/10/08 12:21	03/11/08 21:18	7439-96-5	
Molybdenum	**0.44J**	ug/L	10.0	0.11	1	03/10/08 12:21	03/11/08 21:18	7439-98-7	B
Nickel	**1.3**	ug/L	1.0	0.074	1	03/10/08 12:21	03/11/08 21:18	7440-02-0	B
Potassium	**1500**	ug/L	500	6.2	1	03/10/08 12:21	03/11/08 21:18	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 12:21	03/11/08 21:18	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 12:21	03/11/08 21:18	7440-22-4	
Sodium	**8480**	ug/L	500	46.0	1	03/10/08 12:21	03/11/08 21:18	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 12:21	03/11/08 21:18	7440-28-0	
Total Hardness	**50.2**	mg/L	5.0	0.15	1	03/10/08 12:21	03/11/08 21:18		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 12:21	03/11/08 21:18	7440-62-2	
Zinc	**7.8J**	ug/L	10.0	2.1	1	03/10/08 12:21	03/11/08 21:18	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.7**	NTU	1.0	0.44	1		03/07/08 17:33		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**42.2**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**42.2**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**82.0**	mg/L	20.0	12.0	1		03/08/08 14:43		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**5.2**	mg/L	2.0	0.62	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Sample: DUP-006 **Lab ID: 401342002** Collected: 03/06/08 00:00 Received: 03/07/08 11:46 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/10/08 11:56		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		03/07/08 20:25	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/07/08 23:29	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.7**	mg/L	5.0	1.1	1		03/07/08 20:25	16887-00-6	1j,M0
Fluoride	**0.28J**	mg/L	0.50	0.059	1		03/07/08 20:25	16984-48-8	
Sulfate	**6.0**	mg/L	4.0	0.51	1		03/07/08 20:25	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.010J**	mg/L	0.020	0.0060	1		03/14/08 13:53	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/13/08 14:48	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**39.5J**	mg/L	52.6	11.3	1		03/10/08 13:34		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**12.7**	mg/L	2.0	1.4	1		03/13/08 07:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**13.0**	mg/L	2.0	1.4	1		03/19/08 07:55		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Sample: MBR-001 **Lab ID: 401342003** Collected: 03/06/08 00:00 Received: 03/07/08 11:46 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.03**	ng/L	0.50	0.16	1	03/14/08 02:00	03/17/08 10:12	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**40.0J**	ug/L	50.0	4.4	1	03/10/08 12:21	03/11/08 21:54	7429-90-5	B
Antimony	**0.10J**	ug/L	1.0	0.10	1	03/10/08 12:21	03/11/08 21:54	7440-36-0	
Arsenic	**0.76J**	ug/L	1.0	0.093	1	03/10/08 12:21	03/11/08 21:54	7440-38-2	
Barium	**11.6**	ug/L	1.0	0.072	1	03/10/08 12:21	03/11/08 21:54	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 12:21	03/11/08 21:54	7440-41-7	
Boron	**16.1**	ug/L	10.0	1.1	1	03/10/08 12:21	03/11/08 21:54	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 12:21	03/11/08 21:54	7440-43-9	
Calcium	**12500**	ug/L	500	10.0	1	03/10/08 12:21	03/11/08 21:54	7440-70-2	
Chromium	**0.51J**	ug/L	1.0	0.43	1	03/10/08 12:21	03/11/08 21:54	7440-47-3	
Cobalt	**0.34J**	ug/L	1.0	0.059	1	03/10/08 12:21	03/19/08 13:30	7440-48-4	
Copper	**0.29J**	ug/L	1.0	0.12	1	03/10/08 12:21	03/11/08 21:54	7440-50-8	B
Iron	**1590**	ug/L	50.0	2.9	1	03/10/08 12:21	03/11/08 21:54	7439-89-6	
Lead	**0.16J**	ug/L	1.0	0.044	1	03/10/08 12:21	03/11/08 21:54	7439-92-1	B
Lithium	**1.2**	ug/L	1.0	0.085	1	03/10/08 12:21	03/11/08 21:54	7439-93-2	
Magnesium	**5220**	ug/L	500	52.6	1	03/10/08 12:21	03/11/08 21:54	7439-95-4	
Manganese	**336**	ug/L	1.0	0.080	1	03/10/08 12:21	03/11/08 21:54	7439-96-5	
Molybdenum	**0.54J**	ug/L	10.0	0.11	1	03/10/08 12:21	03/11/08 21:54	7439-98-7	B
Nickel	**1.4**	ug/L	1.0	0.074	1	03/10/08 12:21	03/11/08 21:54	7440-02-0	B
Potassium	**1580**	ug/L	500	6.2	1	03/10/08 12:21	03/11/08 21:54	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 12:21	03/11/08 21:54	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 12:21	03/11/08 21:54	7440-22-4	
Sodium	**9480**	ug/L	500	46.0	1	03/10/08 12:21	03/11/08 21:54	7440-23-5	2j
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 12:21	03/11/08 21:54	7440-28-0	
Total Hardness	**52.6**	mg/L	5.0	0.15	1	03/10/08 12:21	03/11/08 21:54		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 12:21	03/11/08 21:54	7440-62-2	
Zinc	**7.2J**	ug/L	10.0	2.1	1	03/10/08 12:21	03/11/08 21:54	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.9**	NTU	1.0	0.44	1		03/07/08 17:33		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**37.7**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**37.7**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**98.0**	mg/L	20.0	12.0	1		03/08/08 14:44		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.6**	mg/L	2.0	0.62	1		03/10/08 08:14		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Sample: MBR-001 **Lab ID: 401342003** Collected: 03/06/08 00:00 Received: 03/07/08 11:46 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/10/08 11:56		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.17J**	mg/L	0.40	0.085	1		03/07/08 21:35	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/08/08 00:40	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.7**	mg/L	5.0	1.1	1		03/07/08 21:35	16887-00-6	1j
Fluoride	**0.29J**	mg/L	0.50	0.059	1		03/07/08 21:35	16984-48-8	
Sulfate	**6.0**	mg/L	4.0	0.51	1		03/07/08 21:35	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.010J**	mg/L	0.020	0.0060	1		03/14/08 13:54	57-12-5	B
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/13/08 15:13	7764-41-7	M0
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**37.5J**	mg/L	50.0	10.8	1		03/18/08 16:12		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**11.8**	mg/L	2.0	1.4	1		03/13/08 07:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**12.4**	mg/L	2.0	1.4	1		03/19/08 07:55		

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WETA/1060 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 3301
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	ND	0.40	
Nitrite as N	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 3302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.7	104	90-110	
Nitrite as N	mg/L	.8	0.84	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3303 3304

Parameter	Units	401342002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.18J	1.6	1.6	1.7	1.8	97	98	90-110	1	20	
Nitrite as N	mg/L	ND	.8	.8	0.83	0.84	104	105	90-110	1	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WETA/1061 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 3307
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	2.1J	5.0	
Fluoride	mg/L	ND	0.50	
Sulfate	mg/L	ND	4.0	

LABORATORY CONTROL SAMPLE: 3308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.9	104	90-110	
Fluoride	mg/L	2	2.2	108	90-110	
Sulfate	mg/L	16	16.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3309 3310

Parameter	Units	401342002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.7	20	20	39.4	39.2	113	112	90-110	.5	20	M0
Fluoride	mg/L	0.28J	2	2	2.3	2.3	100	100	90-110	.4	20	
Sulfate	mg/L	6.0	16	16	21.9	22.0	100	100	90-110	.2	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WET/1051 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 3328
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	ND	1.0	

LABORATORY CONTROL SAMPLE: 3329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	542	542	100		

SAMPLE DUPLICATE: 3330

Parameter	Units	401342003 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	4.9	5.0	3	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WET/1053 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 3337
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	

LABORATORY CONTROL SAMPLE: 3338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	766	920	120	80-120	

SAMPLE DUPLICATE: 3339

Parameter	Units	401342003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	90.0	9	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WET/1054 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 3371
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 3372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	271	270	100	80-120	

SAMPLE DUPLICATE: 3373

Parameter	Units	401290003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3.6	3.6	0	20	

SAMPLE DUPLICATE: 3374

Parameter	Units	401295001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	150	156	4	20	

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Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WET/1056 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 3443
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 3444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	40.4	38.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3445 3446

Parameter	Units	401342003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	40.4	40.4	38.4	40.0	94	98	80-120	4	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: MPRP/1038 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 3474
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	10J	50.0	
Antimony	ug/L	0.15J	1.0	
Arsenic	ug/L	ND	1.0	
Barium	ug/L	0.090J	1.0	
Beryllium	ug/L	ND	1.0	
Boron	ug/L	6.4J	10.0	
Cadmium	ug/L	0.10J	1.0	
Calcium	ug/L	28.2J	500	
Chromium	ug/L	ND	1.0	
Cobalt	ug/L	ND	1.0	
Copper	ug/L	0.17J	1.0	
Iron	ug/L	9.5J	50.0	
Lead	ug/L	0.070J	1.0	
Lithium	ug/L	0.15J	1.0	
Magnesium	ug/L	ND	500	
Manganese	ug/L	0.75J	1.0	
Molybdenum	ug/L	0.17J	10.0	
Nickel	ug/L	0.10J	1.0	
Potassium	ug/L	ND	500	
Selenium	ug/L	ND	1.0	
Silver	ug/L	ND	0.50	
Sodium	ug/L	ND	500	
Thallium	ug/L	ND	1.0	
Vanadium	ug/L	ND	1.0	
Zinc	ug/L	4.9J	10.0	

LABORATORY CONTROL SAMPLE: 3475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9170	92	75-125	
Antimony	ug/L	200	199	99	75-125	
Arsenic	ug/L	200	190	95	75-125	
Barium	ug/L	200	185	93	75-125	
Beryllium	ug/L	200	185	93	75-125	
Boron	ug/L	200	185	92	75-125	
Cadmium	ug/L	200	189	95	75-125	
Calcium	ug/L	10000	9550	96	75-125	
Chromium	ug/L	200	192	96	75-125	
Cobalt	ug/L	200	198	99	75-125	
Copper	ug/L	200	189	94	75-125	
Iron	ug/L	10000	9720	97	75-125	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

LABORATORY CONTROL SAMPLE: 3475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	200	191	96	75-125	
Lithium	ug/L	200	189	95	75-125	
Magnesium	ug/L	10000	9300	93	75-125	
Manganese	ug/L	200	194	97	75-125	
Molybdenum	ug/L	200	190	95	75-125	
Nickel	ug/L	200	188	94	75-125	
Potassium	ug/L	10000	9250	93	75-125	
Selenium	ug/L	200	191	96	75-125	
Silver	ug/L	100	94.2	94	75-125	
Sodium	ug/L	10000	9210	92	75-125	
Thallium	ug/L	200	186	93	75-125	
Vanadium	ug/L	200	192	96	75-125	
Zinc	ug/L	200	188	94	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541 3542

Parameter	Units	401342002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	37.1J	10000	10000	9820	9780	98	97	75-125	.4	20	
Antimony	ug/L	ND	200	200	227	230	113	115	75-125	1	20	
Arsenic	ug/L	0.79J	200	200	213	222	106	110	75-125	4	20	
Barium	ug/L	11.1	200	200	220	219	105	104	75-125	.5	20	
Beryllium	ug/L	ND	200	200	202	203	101	101	75-125	.5	20	
Boron	ug/L	12.5	200	200	205	207	96	97	75-125	1	20	
Cadmium	ug/L	ND	200	200	214	216	107	108	75-125	.9	20	
Calcium	ug/L	11900	10000	10000	23100	22900	112	110	75-125	.9	20	
Chromium	ug/L	ND	200	200	211	210	105	105	75-125	.4	20	
Cobalt	ug/L	0.36J	200	200	185	196	92	98	75-125	6	20	
Copper	ug/L	0.51J	200	200	205	206	102	102	75-125	.3	20	
Iron	ug/L	1490	10000	10000	12400	12200	109	107	75-125	1	20	
Lead	ug/L	0.16J	200	200	212	213	106	106	75-125	.7	20	
Lithium	ug/L	1.2	200	200	200	198	99	98	75-125	1	20	
Magnesium	ug/L	4990	10000	10000	15000	15000	101	100	75-125	.7	20	
Manganese	ug/L	302	200	200	541	525	119	111	75-125	3	20	
Molybdenum	ug/L	0.44J	200	200	212	210	106	105	75-125	.8	20	
Nickel	ug/L	1.3	200	200	206	204	102	101	75-125	.9	20	
Potassium	ug/L	1500	10000	10000	11600	11700	101	102	75-125	.9	20	
Selenium	ug/L	ND	200	200	216	226	108	113	75-125	4	20	
Silver	ug/L	ND	100	100	102	101	102	101	75-125	.6	20	
Sodium	ug/L	8480	10000	10000	18600	18600	101	101	75-125	.3	20	
Thallium	ug/L	ND	200	200	208	209	104	105	75-125	.7	20	
Vanadium	ug/L	ND	200	200	212	211	106	105	75-125	.3	20	
Zinc	ug/L	7.8J	200	200	212	220	102	106	75-125	4	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WETA/1066 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 401342001, 401342002

METHOD BLANK: 3489
Associated Lab Samples: 401342001, 401342002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50.0	

LABORATORY CONTROL SAMPLE: 3490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	489	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3491 3492

Parameter	Units	401342002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	39.5J	500	500	553	542	103	101	90-110	2	10	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WET/1060 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 3514
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	10.0	
Alkalinity, Total as CaCO3	mg/L	ND	10.0	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 3515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3516 3517

Parameter	Units	401216001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	500	500	504	502	100	100	80-120	.4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WETA/1077 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 4045
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 4046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4047 4048

Parameter	Units	401328002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.4J	100	100	109	110	108	109	80-120	.9	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WETA/1082 — Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 — Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 4466
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 4467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4468 4469

Parameter	Units	401168008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	2700	10	10	2700	2800	-2	1090	90-110	4	20	P6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4470 4471

Parameter	Units	401342003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	10	10	8.7	8.8	84	86	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WETA/1092 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 4969
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	0.0061J	0.020	

LABORATORY CONTROL SAMPLE: 4970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4971 4972

Parameter	Units	401324002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.057J	.6	.6	0.69	0.74	105	114	90-110	7	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4973 4974

Parameter	Units	401443001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.010J	.1	.1	0.11	0.12	105	108	90-110	2	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: CVFS/1017 — Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E — Analysis Description: 1631E Mercury
Associated Lab Samples: 401342001, 401342002, 401342003

METHOD BLANK: 5686
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.384J	0.50	

METHOD BLANK: 5687
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.394J	0.50	

METHOD BLANK: 5688
Associated Lab Samples: 401342001, 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.253J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 5689 5690

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	4.73	5.22	95	104	79-121	10	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5797 5798

Parameter	Units	401381001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	5.52	20	20	23.6	25.1	91	98	75-124	6	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5801 5802

Parameter	Units	9214987002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	8.64	20	20	28.6	28.2	100	98	75-124	1	24	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5932 5933

Parameter	Units	401330003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	42.5	200	200	258	260	108	109	75-124	.8	24	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WETA/1117
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 401342002, 401342003

METHOD BLANK: 6072
Associated Lab Samples: 401342002, 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 6073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	99.2	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6074 6075

Parameter	Units	401216003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	9.4	100	100	107	110	98	101	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6076 6077

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	9.2	100	100	111	116	101	107	80-120	5	20	

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nelac

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

QC Batch: WETA/1118 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 401342003

METHOD BLANK: 6379
Associated Lab Samples: 401342003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50.0	

LABORATORY CONTROL SAMPLE: 6380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	502	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6381 6382

Parameter	Units	401548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	105	526	526	630	639	100	101	90-110	1	10	

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Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1j	Analyte was detected in the associated method blank. At a concentration of 2.12mg/L.
2j	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 100 times the IDL for analysis done on the ICP-MS. A physical interference was observed.
B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401342

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401342001	FBK-006	EPA 300.0	WETA/1060		
401342002	DUP-006	EPA 300.0	WETA/1060		
401342003	MBR-001	EPA 300.0	WETA/1060		
401342001	FBK-006	EPA 300.0	WETA/1061		
401342002	DUP-006	EPA 300.0	WETA/1061		
401342003	MBR-001	EPA 300.0	WETA/1061		
401342001	FBK-006	SM 2130B	WET/1051		
401342002	DUP-006	SM 2130B	WET/1051		
401342003	MBR-001	SM 2130B	WET/1051		
401342001	FBK-006	SM 2540C	WET/1053		
401342002	DUP-006	SM 2540C	WET/1053		
401342003	MBR-001	SM 2540C	WET/1053		
401342001	FBK-006	SM 2540D	WET/1054		
401342002	DUP-006	SM 2540D	WET/1054		
401342003	MBR-001	SM 2540D	WET/1054		
401342001	FBK-006	SM 4500-S F (2000)	WET/1056		
401342002	DUP-006	SM 4500-S F (2000)	WET/1056		
401342003	MBR-001	SM 4500-S F (2000)	WET/1056		
401342001	FBK-006	EPA 3020	MPRP/1038	EPA 6020	ICPM/1010
401342002	DUP-006	EPA 3020	MPRP/1038	EPA 6020	ICPM/1010
401342003	MBR-001	EPA 3020	MPRP/1038	EPA 6020	ICPM/1010
401342001	FBK-006	EPA 410.4	WETA/1066		
401342002	DUP-006	EPA 410.4	WETA/1066		
401342001	FBK-006	SM 2320B	WET/1060		
401342002	DUP-006	SM 2320B	WET/1060		
401342003	MBR-001	SM 2320B	WET/1060		
401342001	FBK-006	SM 5310C	WETA/1077		
401342002	DUP-006	SM 5310C	WETA/1077		
401342003	MBR-001	SM 5310C	WETA/1077		
401342001	FBK-006	EPA 350.1	WETA/1082		
401342002	DUP-006	EPA 350.1	WETA/1082		
401342003	MBR-001	EPA 350.1	WETA/1082		
401342001	FBK-006	EPA 335.4	WETA/1092		
401342002	DUP-006	EPA 335.4	WETA/1092		
401342003	MBR-001	EPA 335.4	WETA/1092		
401342001	FBK-006	EPA 1631E	CVFS/1017	EPA 1631E	CVFS/1018
401342002	DUP-006	EPA 1631E	CVFS/1017	EPA 1631E	CVFS/1018
401342003	MBR-001	EPA 1631E	CVFS/1017	EPA 1631E	CVFS/1018
401342002	DUP-006	SM 5310C	WETA/1117		
401342003	MBR-001	SM 5310C	WETA/1117		
401342003	MBR-001	EPA 410.4	WETA/1118		

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Waltz Mill Radiochemistry Lab
P.O. Box 158
Bldg. G, M/S 62
Madison, PA 15663
Phone: 724.722.5214
Fax: 724.722.5208

March 25, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
401342 Foth & Van Dyke
Pace Project No. 08-1153

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received and logged in for analysis on March 12, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:tew

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFIED IN ACCORDANCE WITH nelac

PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-1153
CLIENT: 401342 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0803-0334	401342001 (FPK-006)	0803-0335	401342002 (DUP-006)
0803-0336	401342003 (MBR-001)		

C: SHIPPING/RECEIVING COMMENTS:

Final Report 03-25-08.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

0000003

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-1153
Groundwater Characterization; 401342 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0803-0334	401342001 (FPK-006)	(3/6/08)	03/21/08	0.117 ± 0.610	(1.61)
0803-0335	401342002 (DUP-006)	(3/6/08)	03/21/08	-0.391 ± 0.601	(2.20)
0803-0336	401342003 (MBR-001)	(3/6/08)	03/21/08	0.483 ± 0.625	(1.18)
0803-0337	Method Blank	(3/12/08)	03/20/08	0.322 ± 0.616	(1.41)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0803-0334	401342001 (FPK-006)	(3/6/08)	03/21/08	0.992 ± 0.867	(1.74)
0803-0335	401342002 (DUP-006)	(3/6/08)	03/21/08	1.14 ± 1.11	(2.34)
0803-0336	401342003 (MBR-001)	(3/6/08)	03/21/08	1.62 ± 1.05	(1.95)
0803-0337	Method Blank	(3/12/08)	03/20/08	0.241 ± 0.779	(1.83)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

0000005

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Quality Control Sample Performance Assessment

Test:	Gross Alpha
Analyst:	RMD
Date:	3/21/2008
Worklist:	16230R
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.322
M/B Counting Uncertainty:	0.616
MB MDC:	1.409
MB Numerical Performance Indicator:	1.02
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/20/2008	3/20/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.335	93.335
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	39.089	40.245
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.431	4.433
Numerical Performance Indicator:	-2.80	-2.37
Percent Recovery:	83.76%	86.24%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16230R
Duplicate Sample I.D.	LCSD16230R
Sample Result (pCi/L, g, F):	39.089
Sample Result Counting Uncertainty (pCi/L, g, F):	4.431
Sample Duplicate Result (pCi/L, g, F):	40.245
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.433
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.361
Duplicate RPD:	2.91%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/6/2008
Sample I.D.	0803-0471
Sample MS I.D.	0803-0471MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.336
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.095
MS Target Conc.(pCi/L, g, F):	196.496
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	12.324
Sample Result:	1.952
Sample Result Counting Uncertainty (pCi/L, g, F):	1.443
Sample Matrix Spike Result:	215.173
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	22.720
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	1.266
MSD Numerical Performance Indicator:	
MS Percent Recovery:	108.51%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

Quality Control Sample Performance Assessment

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Test:	Gross Beta
Analyst:	RMD
Date:	3/21/2008
Worklist:	16230R
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.241
M/B Counting Uncertainty:	0.779
MB MDC:	1.829
MB Numerical Performance Indicator:	0.61
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/20/2008	3/20/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.684	39.684
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.842	19.842
Uncertainty (Calculated):	0.467	0.467
Result (pCi/L, g, F):	17.356	16.685
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.403	2.470
Numerical Performance Indicator:	-1.99	-2.46
Percent Recovery:	87.47%	84.09%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16230R
Duplicate Sample I.D.	LCSD16230R
Sample Result (pCi/L, g, F):	17.356
Sample Result Counting Uncertainty (pCi/L, g, F):	2.403
Sample Duplicate Result (pCi/L, g, F):	16.685
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.470
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.382
Duplicate RPD:	3.94%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/6/2008
Sample I.D.	0803-0471
Sample MS I.D.	0803-0471MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.721
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.095
MS Target Conc.(pCi/L, g, F):	83.623
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	1.967
Sample Result:	2.351
Sample Result Counting Uncertainty (pCi/L, g, F):	1.006
Sample Matrix Spike Result:	85.436
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	7.369
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-0.137
MSD Numerical Performance Indicator:	
MS Percent Recovery:	99.36%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

000006

Pace Analytical Inter-Laboratory IRWO / Sub-COC

Inter-Laboratory Work Order # 401342

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 3/6	Sending Project No:	401342
Receiving Region:	Pace-PA	Receiving Project No:	08-1153
State of Sample Origin:	MI	Date IRWO / Sub-COC Prepared:	3/7/08
Sending Project Manager:	TOD NOLTEMEYER	REQUESTED COMPLETION DATE:	3/28/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	3	$ 60.00	$ 180.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 180.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 180.00	$ 144.00	$ 36.00
Total			$ 144.00	$ 36.00

Sub-COC

P = Poly
G = Glass
AG = Amber Glass

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

				Bottle Preservative	D				
				Bottle Type	P				
				Number of Bottles	1				
				Analyses	Gross Alpha/Beta				
Client Sample ID	**Pace Lab Number**	**Collect Date**	**Matrix**	**Method**	900				
FBK-006 0803-0334	401342001	03/06/08	W		X				
DUP-006 0335	401342002	03/06/08	W		X				
MBR-001 0336	401342003	03/06/08	W		X				
MB- 0337									

Relinquished By: [illegible] Date/Time: 3-7-08 1630 Received By: UPS Date/Time:

Relinquished By: Date/Time: Received By: [illegible] Date/Time: 3/12/08 10:30

Receipt Temperature =

Confirmation of Work Completed By Receiving PM: Date:

DISPOSITION of FORM: When work is completed, copy of Sub-COC/IRWO goes to ABM

GBC013a (07June2006)

0000007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Foth

Project # _____

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 10

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: GT 3/7/08

Temp should be above freezing to 6°C

Comments: VMWY

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed GT / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 3/7/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

COC No. 20080306

(Please Print Clearly)	
Company Name:	FOTH I & E
Branch/Location:	
Project Contact:	SHARON FELIX
Phone:	
Project Number:	
Project Name:	HUMBOLDT MILL
Project State:	MI
Sampled By (Print):	P. Sabee A. Mavacini
Sampled By (Sign):	
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	SHARON FELIX
Mail To Company:	FOTH I & E
Mail To Address:	GREEN BAY, WI
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☑ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO)												
PRESERVATION (CODE)*												
Analyses Requested		Y/N	N	N	N	N	N	Y				
		Pick Letter	A	C	D	G	J	C				
			Alk, Alk2, Cl, Fl, SO4, TDS, Turbidity, µHg/Nitrate, N. Nitrite, TSS	Ammonia, COD, TOC	Metals, Gross Alpha/Beta	Cyanide	Sulfide	DOC				

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	FBK-006	3/6/08	1404	W	1-1L[A], 1-500mL[C], 1-500mL[A], 1-250mL[A], 2-500mL[D], 3-250mL[B,C], 1-250mL		
002	DUP-006	↓	—	SW	1-1L, 1-500mL[C], 1-500mL[A], 1-250mL[A], 2-500mL[D], 3-250mL[B,C], 1-250mL		
003	MBR-001	↓	1434	SW	4 2 2 1 1 1		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Andrew Mavacini	3/6/08 1800	FedEx	
FedEx	3/7/08 1000		3/7/08 1000

PACE Project No.

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Batch No. 401216

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

March 26, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on March 04, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Green Bay Certification IDs
Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs
Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Lab ID	Sample ID	Matrix	Date Collected	Date Received
401216001	FBK-004	Water	03/03/08 00:00	03/04/08 10:25
401216002	DUP-004	Water	03/03/08 00:00	03/04/08 10:25
401216003	HPL-004 3'	Water	03/03/08 00:00	03/04/08 10:25
401216004	HPL-004 15'	Water	03/03/08 00:00	03/04/08 10:25
401216005	HPL-004 60'	Water	03/03/08 00:00	03/04/08 10:25
401216006	HPL-004 120'	Water	03/03/08 00:00	03/04/08 10:25
401216007	HPL-004 175'	Water	03/03/08 00:00	03/04/08 10:25

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SAMPLE ANALYTE COUNT

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
401216001	FBK-004	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	1	PASI-G
401216002	DUP-004	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401216003	HPL-004 3'	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401216004	HPL-004 15'	EPA 1631E	TLH	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401216005	HPL-004 60'	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401216006	HPL-004 120'	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G
401216007	HPL-004 175'	EPA 1631E	TLH	1	PASI-G
		EPA 300.0	GLH	5	PASI-G

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SAMPLE ANALYTE COUNT

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	DDY	1	PASI-G
		SM 2540D	DDY	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	GMW	2	PASI-G

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: EPA 1631E
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/1039

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401216002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 3499)
  - Magnesium
  - Nickel
  - Potassium
  - Sodium
- MSD (Lab ID: 3500)
  - Nickel
  - Potassium
  - Sodium

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

Additional Comments:

Analyte Comments:

QC Batch: MPRP/1039

1j: Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the limits of 0-10%. The sample concentration is greater than 100 times the IDL.

- HPL-004 3' (Lab ID: 401216003)
  - Boron
  - Lithium

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/1038

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP-004 (Lab ID: 401216002)
  - Nitrite as N
- HPL-004 120' (Lab ID: 401216006)
  - Nitrite as N
- HPL-004 175' (Lab ID: 401216007)
  - Nitrite as N

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1039

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401216002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 2403)
  - Chloride
- MSD (Lab ID: 2404)
  - Chloride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1068

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401250003,401286017

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 3539)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1082

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 401168008,401342003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 4470)
  - Nitrogen, Ammonia
- MSD (Lab ID: 4471)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
6 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: March 26, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: FBK-004 **Lab ID: 401216001** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	ND	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 12:07	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**5.5J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 00:29	7429-90-5	
Antimony	**0.19J**	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 00:29	7440-36-0	
Arsenic	**0.18J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 00:29	7440-38-2	
Barium	**0.17J**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 00:29	7440-39-3	B
Beryllium	**0.070J**	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 00:29	7440-41-7	
Boron	**87.0**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 00:29	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 00:29	7440-43-9	
Calcium	**55.9J**	ug/L	500	10.0	1	03/10/08 16:07	03/12/08 00:29	7440-70-2	B
Chromium	**0.50J**	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 00:29	7440-47-3	
Cobalt	ND	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 14:24	7440-48-4	
Copper	**5.0**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 00:29	7440-50-8	
Iron	**8.4J**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 00:29	7439-89-6	B
Lead	**0.17J**	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 00:29	7439-92-1	
Lithium	**0.39J**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 00:29	7439-93-2	
Magnesium	ND	ug/L	500	52.6	1	03/10/08 16:07	03/12/08 00:29	7439-95-4	
Manganese	**1.4**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 00:29	7439-96-5	B
Molybdenum	**0.49J**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 00:29	7439-98-7	
Nickel	**0.52J**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 00:29	7440-02-0	B
Potassium	**45.6J**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 00:29	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 00:29	7782-49-2	
Silver	**0.13J**	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 00:29	7440-22-4	
Sodium	**1470**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 00:29	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 00:29	7440-28-0	
Total Hardness	**0.23J**	mg/L	5.0	0.15	1	03/10/08 16:07	03/12/08 00:29		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 00:29	7440-62-2	
Zinc	**13.8**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 00:29	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	ND	NTU	1.0	0.44	1		03/04/08 13:50		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**52.0**	mg/L	20.0	12.0	1		03/06/08 11:12		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.31	1		03/06/08 09:45		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: FBK-004 **Lab ID: 401216001** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/06/08 11:47		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	ND	mg/L	0.40	0.085	1		03/04/08 18:22	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/04/08 14:21	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1J**	mg/L	5.0	1.1	1		03/04/08 18:22	16887-00-6	
Fluoride	ND	mg/L	0.50	0.059	1		03/04/08 18:22	16984-48-8	
Sulfate	ND	mg/L	4.0	0.51	1		03/04/08 18:22	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	ND	mg/L	0.020	0.0060	1		03/11/08 14:07	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.66J**	mg/L	1.0	0.50	1		03/13/08 14:41	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	ND	mg/L	50.0	10.8	1		03/06/08 14:05		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	ND	mg/L	2.0	1.4	1		03/06/08 09:31	7440-44-0	

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: DUP-004 **Lab ID: 401216002** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.631**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 12:12	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**19.3J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 00:11	7429-90-5	
Antimony	**48.8**	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 00:11	7440-36-0	
Arsenic	**0.43J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 00:11	7440-38-2	
Barium	**15.8**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 00:11	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 00:11	7440-41-7	
Boron	**164**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 00:11	7440-42-8	
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 00:11	7440-43-9	
Calcium	**54600**	ug/L	5000	100	10	03/10/08 16:07	03/11/08 22:18	7440-70-2	P6
Chromium	**0.59J**	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 00:11	7440-47-3	
Cobalt	**21.6**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 13:54	7440-48-4	
Copper	**4.4**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 00:11	7440-50-8	
Iron	**173**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 00:11	7439-89-6	
Lead	**0.56J**	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 00:11	7439-92-1	
Lithium	**3.8**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 00:11	7439-93-2	
Magnesium	**29600**	ug/L	5000	526	10	03/10/08 16:07	03/11/08 22:18	7439-95-4	M0
Manganese	**2990**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 00:11	7439-96-5	P6
Molybdenum	**75.9**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 00:11	7439-98-7	
Nickel	**334**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 00:11	7440-02-0	M0
Potassium	**23100**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 00:11	7440-09-7	M0
Selenium	**0.37J**	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 00:11	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 00:11	7440-22-4	
Sodium	**34300**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 00:11	7440-23-5	M0
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 00:11	7440-28-0	
Total Hardness	**258**	mg/L	50.0	1.5	10	03/10/08 16:07	03/11/08 22:18		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 00:11	7440-62-2	
Zinc	**7.9J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 00:11	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.2**	NTU	1.0	0.44	1		03/04/08 13:50		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**166**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**166**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**420**	mg/L	20.0	12.0	1		03/07/08 11:38		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.44J**	mg/L	1.1	0.34	1		03/06/08 09:45		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: DUP-004 **Lab ID: 401216002** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/06/08 11:47		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.3**	mg/L	0.40	0.085	1		03/04/08 18:36	14797-55-8	
Nitrite as N	ND	mg/L	0.20	0.072	2		03/05/08 11:43	14797-65-0	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**26.8**	mg/L	5.0	1.1	1		03/04/08 18:36	16887-00-6	M0
Fluoride	**0.42J**	mg/L	0.50	0.059	1		03/04/08 18:36	16984-48-8	
Sulfate	**177**	mg/L	40.0	5.1	10		03/05/08 14:33	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.014J**	mg/L	0.020	0.0060	1		03/11/08 14:08	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.3**	mg/L	1.0	0.50	1		03/07/08 13:25	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		03/06/08 14:05		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.0**	mg/L	2.0	1.4	1		03/06/08 10:07	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**4.7**	mg/L	2.0	1.4	1		03/19/08 07:54		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 3' **Lab ID: 401216003** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.453J**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 12:16	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**9.3J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 00:35	7429-90-5	
Antimony	**8.9**	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 00:35	7440-36-0	
Arsenic	**0.42J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 00:35	7440-38-2	
Barium	**7.7**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 00:35	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 00:35	7440-41-7	
Boron	**90.6**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 00:35	7440-42-8	1j
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 00:35	7440-43-9	
Calcium	**50900**	ug/L	5000	100	10	03/10/08 16:07	03/11/08 22:48	7440-70-2	
Chromium	**1.0**	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 00:35	7440-47-3	
Cobalt	**0.82J**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 14:36	7440-48-4	
Copper	**1.8**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 00:35	7440-50-8	
Iron	**138**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 00:35	7439-89-6	B
Lead	**0.050J**	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 00:35	7439-92-1	
Lithium	**3.5**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 00:35	7439-93-2	1j
Magnesium	**23600**	ug/L	5000	526	10	03/10/08 16:07	03/11/08 22:48	7439-95-4	
Manganese	**219**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 00:35	7439-96-5	
Molybdenum	**12.5**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 00:35	7439-98-7	
Nickel	**18.4**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 00:35	7440-02-0	
Potassium	**8700**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 00:35	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 00:35	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 00:35	7440-22-4	
Sodium	**13400**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 00:35	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 00:35	7440-28-0	
Total Hardness	**224**	mg/L	50.0	1.5	10	03/10/08 16:07	03/11/08 22:48		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 00:35	7440-62-2	
Zinc	**5.4J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 00:35	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.98J**	NTU	1.0	0.44	1		03/04/08 13:50		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**109**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**109**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**326**	mg/L	20.0	12.0	1		03/07/08 11:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.40J**	mg/L	1.0	0.31	1		03/06/08 09:45		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 3' **Lab ID: 401216003** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/06/08 11:47		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.2**	mg/L	0.40	0.085	1		03/04/08 19:19	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/04/08 15:18	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.6**	mg/L	5.0	1.1	1		03/04/08 19:19	16887-00-6	
Fluoride	**0.43J**	mg/L	0.50	0.059	1		03/04/08 19:19	16984-48-8	
Sulfate	**144**	mg/L	40.0	5.1	10		03/05/08 15:16	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0099J**	mg/L	0.020	0.0060	1		03/11/08 14:09	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:26	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		03/06/08 14:05		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.6**	mg/L	2.0	1.4	1		03/06/08 10:08	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**9.4**	mg/L	2.0	1.4	1		03/19/08 08:09		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 15' **Lab ID: 401216004** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.713**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 12:20	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	ND	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 00:47	7429-90-5	
Antimony	**8.6**	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 00:47	7440-36-0	
Arsenic	**0.51J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 00:47	7440-38-2	
Barium	**7.8**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 00:47	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 00:47	7440-41-7	
Boron	**84.0**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 00:47	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 00:47	7440-43-9	
Calcium	**50400**	ug/L	5000	100	10	03/10/08 16:07	03/11/08 23:00	7440-70-2	
Chromium	**0.58J**	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 00:47	7440-47-3	
Cobalt	**3.8**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 14:42	7440-48-4	
Copper	**1.8**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 00:47	7440-50-8	
Iron	**147**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 00:47	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 00:47	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 00:47	7439-93-2	
Magnesium	**23500**	ug/L	5000	526	10	03/10/08 16:07	03/11/08 23:00	7439-95-4	
Manganese	**217**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 00:47	7439-96-5	
Molybdenum	**12.1**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 00:47	7439-98-7	
Nickel	**17.7**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 00:47	7440-02-0	
Potassium	**8370**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 00:47	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 00:47	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 00:47	7440-22-4	
Sodium	**12900**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 00:47	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 00:47	7440-28-0	
Total Hardness	**223**	mg/L	50.0	1.5	10	03/10/08 16:07	03/11/08 23:00		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 00:47	7440-62-2	
Zinc	**5.9J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 00:47	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.98J**	NTU	1.0	0.44	1		03/04/08 13:50		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**107**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**107**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**314**	mg/L	20.0	12.0	1		03/07/08 11:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.32	1		03/06/08 09:45		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 15' **Lab ID: 401216004** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/06/08 11:47		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		03/04/08 19:33	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/04/08 15:32	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.5**	mg/L	5.0	1.1	1		03/04/08 19:33	16887-00-6	
Fluoride	**0.33J**	mg/L	0.50	0.059	1		03/04/08 19:33	16984-48-8	
Sulfate	**141**	mg/L	40.0	5.1	10		03/05/08 15:30	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.014J**	mg/L	0.020	0.0060	1		03/11/08 14:10	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:26	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		03/06/08 14:05		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.4**	mg/L	2.0	1.4	1		03/06/08 10:08	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.4**	mg/L	2.0	1.4	1		03/19/08 07:54		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 60' **Lab ID: 401216005** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.318J**	ng/L	0.50	0.16	1	03/07/08 09:00	03/11/08 12:37	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	ND	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 00:54	7429-90-5	
Antimony	**8.5**	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 00:54	7440-36-0	
Arsenic	**0.71J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 00:54	7440-38-2	
Barium	**8.4**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 00:54	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 00:54	7440-41-7	
Boron	**83.6**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 00:54	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 00:54	7440-43-9	
Calcium	**50100**	ug/L	5000	100	10	03/10/08 16:07	03/11/08 23:06	7440-70-2	
Chromium	**0.73J**	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 00:54	7440-47-3	
Cobalt	**4.0**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 14:48	7440-48-4	
Copper	**1.9**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 00:54	7440-50-8	
Iron	**472**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 00:54	7439-89-6	
Lead	ND	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 00:54	7439-92-1	
Lithium	**3.0**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 00:54	7439-93-2	
Magnesium	**23400**	ug/L	5000	526	10	03/10/08 16:07	03/11/08 23:06	7439-95-4	
Manganese	**332**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 00:54	7439-96-5	
Molybdenum	**12.0**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 00:54	7439-98-7	
Nickel	**19.1**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 00:54	7440-02-0	
Potassium	**8260**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 00:54	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 00:54	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 00:54	7440-22-4	
Sodium	**12700**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 00:54	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 00:54	7440-28-0	
Total Hardness	**221**	mg/L	50.0	1.5	10	03/10/08 16:07	03/11/08 23:06		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 00:54	7440-62-2	
Zinc	**4.9J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 00:54	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.8**	NTU	1.0	0.44	1		03/04/08 13:50		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**107**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**107**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**326**	mg/L	20.0	12.0	1		03/08/08 14:45		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.70J**	mg/L	1.0	0.31	1		03/06/08 09:45		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 60' **Lab ID: 401216005** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/06/08 11:47		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		03/04/08 19:47	14797-55-8	
Nitrite as N	ND	mg/L	0.10	0.036	1		03/04/08 15:46	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.4**	mg/L	5.0	1.1	1		03/04/08 19:47	16887-00-6	
Fluoride	**0.33J**	mg/L	0.50	0.059	1		03/04/08 19:47	16984-48-8	
Sulfate	**142**	mg/L	40.0	5.1	10		03/05/08 15:44	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.012J**	mg/L	0.020	0.0060	1		03/11/08 14:14	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	ND	mg/L	1.0	0.50	1		03/07/08 13:27	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		03/06/08 14:05		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.6**	mg/L	2.0	1.4	1		03/06/08 10:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**4.6**	mg/L	2.0	1.4	1		03/19/08 07:54		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 120' **Lab ID: 401216006** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.458J**	ng/L	0.50	0.16	1	03/11/08 09:00	03/12/08 11:04	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**4.4J**	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 01:11	7429-90-5	
Antimony	**36.8**	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 01:11	7440-36-0	
Arsenic	**0.44J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 01:11	7440-38-2	
Barium	**9.9**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 01:11	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 01:11	7440-41-7	
Boron	**139**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 01:11	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 01:11	7440-43-9	
Calcium	**55000**	ug/L	5000	100	10	03/10/08 16:07	03/11/08 23:12	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 01:11	7440-47-3	
Cobalt	**18.5**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 14:56	7440-48-4	
Copper	**3.8**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 01:11	7440-50-8	
Iron	**180**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 01:11	7439-89-6	
Lead	**0.070J**	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 01:11	7439-92-1	
Lithium	**3.6**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 01:11	7439-93-2	
Magnesium	**29100**	ug/L	5000	526	10	03/10/08 16:07	03/11/08 23:12	7439-95-4	
Manganese	**1650**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 01:11	7439-96-5	
Molybdenum	**51.2**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 01:11	7439-98-7	
Nickel	**234**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 01:11	7440-02-0	
Potassium	**18000**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 01:11	7440-09-7	
Selenium	**0.31J**	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 01:11	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 01:11	7440-22-4	
Sodium	**26800**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 01:11	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 01:11	7440-28-0	
Total Hardness	**257**	mg/L	50.0	1.5	10	03/10/08 16:07	03/11/08 23:12		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 01:11	7440-62-2	
Zinc	**8.9J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 01:11	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.83J**	NTU	1.0	0.44	1		03/04/08 13:50		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**140**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**140**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**398**	mg/L	20.0	12.0	1		03/08/08 14:46		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.31	1		03/06/08 09:45		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 120' **Lab ID: 401216006** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/06/08 11:47		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.5**	mg/L	0.40	0.085	1		03/04/08 20:01	14797-55-8	
Nitrite as N	ND	mg/L	0.20	0.072	2		03/05/08 12:26	14797-65-0	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**21.8**	mg/L	5.0	1.1	1		03/04/08 20:01	16887-00-6	
Fluoride	**0.38J**	mg/L	0.50	0.059	1		03/04/08 20:01	16984-48-8	
Sulfate	**169**	mg/L	40.0	5.1	10		03/05/08 15:58	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.019J**	mg/L	0.020	0.0060	1		03/11/08 14:15	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**2.6**	mg/L	1.0	0.50	1		03/07/08 13:28	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**17.4J**	mg/L	50.0	10.8	1		03/06/08 14:05		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.7**	mg/L	2.0	1.4	1		03/06/08 10:43	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.1**	mg/L	2.0	1.4	1		03/19/08 07:42		

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 175' **Lab ID: 401216007** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.348J**	ng/L	0.50	0.16	1	03/11/08 09:00	03/12/08 11:08	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	ND	ug/L	50.0	4.4	1	03/10/08 16:07	03/12/08 01:18	7429-90-5	
Antimony	**44.7**	ug/L	1.0	0.10	1	03/10/08 16:07	03/12/08 01:18	7440-36-0	
Arsenic	**0.36J**	ug/L	1.0	0.093	1	03/10/08 16:07	03/12/08 01:18	7440-38-2	
Barium	**12.2**	ug/L	1.0	0.072	1	03/10/08 16:07	03/12/08 01:18	7440-39-3	
Beryllium	ND	ug/L	1.0	0.070	1	03/10/08 16:07	03/12/08 01:18	7440-41-7	
Boron	**153**	ug/L	10.0	1.1	1	03/10/08 16:07	03/12/08 01:18	7440-42-8	B
Cadmium	ND	ug/L	1.0	0.098	1	03/10/08 16:07	03/12/08 01:18	7440-43-9	
Calcium	**55500**	ug/L	5000	100	10	03/10/08 16:07	03/11/08 23:18	7440-70-2	
Chromium	ND	ug/L	1.0	0.43	1	03/10/08 16:07	03/12/08 01:18	7440-47-3	
Cobalt	**23.3**	ug/L	1.0	0.059	1	03/10/08 16:07	03/19/08 15:02	7440-48-4	
Copper	**3.5**	ug/L	1.0	0.12	1	03/10/08 16:07	03/12/08 01:18	7440-50-8	
Iron	**160**	ug/L	50.0	2.9	1	03/10/08 16:07	03/12/08 01:18	7439-89-6	
Lead	**0.070J**	ug/L	1.0	0.044	1	03/10/08 16:07	03/12/08 01:18	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.085	1	03/10/08 16:07	03/12/08 01:18	7439-93-2	
Magnesium	**31000**	ug/L	5000	526	10	03/10/08 16:07	03/11/08 23:18	7439-95-4	
Manganese	**2770**	ug/L	1.0	0.080	1	03/10/08 16:07	03/12/08 01:18	7439-96-5	
Molybdenum	**70.8**	ug/L	10.0	0.11	1	03/10/08 16:07	03/12/08 01:18	7439-98-7	
Nickel	**303**	ug/L	1.0	0.074	1	03/10/08 16:07	03/12/08 01:18	7440-02-0	
Potassium	**21200**	ug/L	500	6.2	1	03/10/08 16:07	03/12/08 01:18	7440-09-7	
Selenium	ND	ug/L	1.0	0.15	1	03/10/08 16:07	03/12/08 01:18	7782-49-2	
Silver	ND	ug/L	0.50	0.11	1	03/10/08 16:07	03/12/08 01:18	7440-22-4	
Sodium	**31100**	ug/L	500	46.0	1	03/10/08 16:07	03/12/08 01:18	7440-23-5	
Thallium	ND	ug/L	1.0	0.030	1	03/10/08 16:07	03/12/08 01:18	7440-28-0	
Total Hardness	**266**	mg/L	50.0	1.5	10	03/10/08 16:07	03/11/08 23:18		
Vanadium	ND	ug/L	1.0	0.41	1	03/10/08 16:07	03/12/08 01:18	7440-62-2	
Zinc	**8.2J**	ug/L	10.0	2.1	1	03/10/08 16:07	03/12/08 01:18	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.0**	NTU	1.0	0.44	1		03/04/08 13:50		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**169**	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	10.0	3.2	1		03/10/08 15:28		
Alkalinity, Total as CaCO3	**169**	mg/L	10.0	3.2	1		03/10/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**426**	mg/L	20.0	12.0	1		03/08/08 14:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	ND	mg/L	1.0	0.31	1		03/06/08 09:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Sample: HPL-004 175' **Lab ID: 401216007** Collected: 03/03/08 00:00 Received: 03/04/08 10:25 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	ND	mg/L	5.0	2.3	1		03/06/08 11:47		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.3**	mg/L	0.40	0.085	1		03/05/08 09:26	14797-55-8	
Nitrite as N	ND	mg/L	0.20	0.072	2		03/05/08 12:40	14797-65-0	D3
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**26.7**	mg/L	5.0	1.1	1		03/05/08 09:26	16887-00-6	
Fluoride	**0.42J**	mg/L	0.50	0.059	1		03/05/08 09:26	16984-48-8	
Sulfate	**175**	mg/L	40.0	5.1	10		03/05/08 16:41	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.023**	mg/L	0.020	0.0060	1		03/11/08 14:19	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.8**	mg/L	1.0	0.50	1		03/07/08 13:28	7764-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	ND	mg/L	52.6	11.3	1		03/06/08 14:05		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.3**	mg/L	2.0	1.4	1		03/06/08 10:43	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.8**	mg/L	2.0	1.4	1		03/19/08 07:39		

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1038 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2397
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	ND	0.40	
Nitrite as N	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 2398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	103	90-110	
Nitrite as N	mg/L	.8	0.84	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2399 2400

Parameter	Units	401216002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.3	1.6	1.6	2.9	2.9	102	102	90-110	.3	20	
Nitrite as N	mg/L	ND	1.6	1.6	1.6	1.5	99	96	90-110	3	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1039 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2401
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	ND	5.0	
Fluoride	mg/L	ND	0.50	
Sulfate	mg/L	ND	4.0	

LABORATORY CONTROL SAMPLE: 2402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.4	102	90-110	
Fluoride	mg/L	2	2.1	106	90-110	
Sulfate	mg/L	16	16.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2403 2404

Parameter	Units	401216002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	26.8	20	20	49.0	49.1	111	111	90-110	.2	20	M0
Fluoride	mg/L	0.42J	2	2	2.2	2.2	90	91	90-110	1	20	
Sulfate	mg/L	177	160	160	343	344	104	105	90-110	.4	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WET/1035 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2440
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	ND	1.0	

LABORATORY CONTROL SAMPLE: 2441

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	542	541	100		

SAMPLE DUPLICATE: 2442

Parameter	Units	401216007 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	1.0	1.1	2	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1043 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2512
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 2513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	94.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2514 2515

Parameter	Units	401155001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.4	100	100	107	108	104	105	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2516 2517

Parameter	Units	401216001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	100	100	104	103	103	103	80-120	.2	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WET/1038 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2534
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 2535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	271	254	94	80-120	

SAMPLE DUPLICATE: 2536

Parameter	Units	401217001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	15.2	15.2	0	20	

SAMPLE DUPLICATE: 2537

Parameter	Units	401229001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	36.5	34.0	7	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WET/1039
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 401216001

METHOD BLANK: 2594
Associated Lab Samples: 401216001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	

LABORATORY CONTROL SAMPLE: 2595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	963	944	98	80-120	

SAMPLE DUPLICATE: 2596

Parameter	Units	401155003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	310	310	0	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WET/1040 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2693
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 2694

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	42	38.4	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2695 2696

Parameter	Units	401216002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	42	42	38.0	38.8	88	90	80-120	2	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1048 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2806
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50.0	

LABORATORY CONTROL SAMPLE: 2807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	504	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2808 2809

Parameter	Units	401216007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	526	526	538	550	101	103	90-110	2	10	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1053 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2867
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 2868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2871 2872

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	10	10	10.9	10.8	106	105	90-110	.8	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WET/1047 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 401216002, 401216003, 401216004

METHOD BLANK: 3018
Associated Lab Samples: 401216002, 401216003, 401216004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	

LABORATORY CONTROL SAMPLE: 3019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	963	914	95	80-120	

SAMPLE DUPLICATE: 3020

Parameter	Units	401290003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	88.0	5	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WET/1053 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 401216005, 401216006, 401216007

METHOD BLANK: 3337
Associated Lab Samples: 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	ND	20.0	

LABORATORY CONTROL SAMPLE: 3338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	766	920	120	80-120	

SAMPLE DUPLICATE: 3339

Parameter	Units	401342003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	90.0	9	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: MPRP/1039 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 2937
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	ND	50.0	
Antimony	ug/L	ND	1.0	
Arsenic	ug/L	ND	1.0	
Barium	ug/L	0.23J	1.0	
Beryllium	ug/L	ND	1.0	
Boron	ug/L	1.2J	10.0	
Cadmium	ug/L	ND	1.0	
Calcium	ug/L	22.8J	500	
Chromium	ug/L	ND	1.0	
Cobalt	ug/L	ND	1.0	
Copper	ug/L	ND	1.0	
Iron	ug/L	6.9J	50.0	
Lead	ug/L	ND	1.0	
Lithium	ug/L	ND	1.0	
Magnesium	ug/L	ND	500	
Manganese	ug/L	0.19J	1.0	
Molybdenum	ug/L	ND	10.0	
Nickel	ug/L	0.090J	1.0	
Potassium	ug/L	ND	500	
Selenium	ug/L	ND	1.0	
Silver	ug/L	ND	0.50	
Sodium	ug/L	ND	500	
Thallium	ug/L	ND	1.0	
Vanadium	ug/L	ND	1.0	
Zinc	ug/L	6.1J	10.0	

LABORATORY CONTROL SAMPLE: 2938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	75-125	
Antimony	ug/L	200	232	116	75-125	
Arsenic	ug/L	200	226	113	75-125	
Barium	ug/L	200	212	106	75-125	
Beryllium	ug/L	200	210	105	75-125	
Boron	ug/L	200	195	97	75-125	
Cadmium	ug/L	200	221	111	75-125	
Calcium	ug/L	10000	11000	110	75-125	
Chromium	ug/L	200	218	109	75-125	
Cobalt	ug/L	200	206	103	75-125	
Copper	ug/L	200	215	108	75-125	
Iron	ug/L	10000	11000	110	75-125	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

LABORATORY CONTROL SAMPLE: 2938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	200	217	108	75-125	
Lithium	ug/L	200	205	102	75-125	
Magnesium	ug/L	10000	10200	102	75-125	
Manganese	ug/L	200	223	111	75-125	
Molybdenum	ug/L	200	217	108	75-125	
Nickel	ug/L	200	215	107	75-125	
Potassium	ug/L	10000	10500	105	75-125	
Selenium	ug/L	200	234	117	75-125	
Silver	ug/L	100	106	106	75-125	
Sodium	ug/L	10000	10100	101	75-125	
Thallium	ug/L	200	214	107	75-125	
Vanadium	ug/L	200	219	110	75-125	
Zinc	ug/L	200	225	113	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3499 3500

Parameter	Units	401216002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	19.3J	10000	10000	8740	8870	87	88	75-125	1	20	
Antimony	ug/L	48.8	200	200	255	251	103	101	75-125	1	20	
Arsenic	ug/L	0.43J	200	200	204	198	102	99	75-125	3	20	
Barium	ug/L	15.8	200	200	204	206	94	95	75-125	.7	20	
Beryllium	ug/L	ND	200	200	178	177	89	88	75-125	1	20	
Boron	ug/L	164	200	200	326	329	81	82	75-125	.8	20	
Cadmium	ug/L	ND	200	200	190	192	95	96	75-125	.9	20	
Calcium	ug/L	54600	10000	10000	70000	64900	154	103	75-125	8	20	P6
Chromium	ug/L	0.59J	200	200	188	190	94	95	75-125	.8	20	
Cobalt	ug/L	21.6	200	200	190	204	84	91	75-125	7	20	
Copper	ug/L	4.4	200	200	183	182	89	89	75-125	.3	20	
Iron	ug/L	173	10000	10000	9730	9780	96	96	75-125	.6	20	
Lead	ug/L	0.56J	200	200	199	197	99	98	75-125	1	20	
Lithium	ug/L	3.8	200	200	182	182	89	89	75-125	0	20	
Magnesium	ug/L	29600	10000	10000	42500	40100	129	104	75-125	6	20	M0
Manganese	ug/L	2990	200	200	2800	2750	-96	-118	75-125	2	20	P6
Molybdenum	ug/L	75.9	200	200	260	260	92	92	75-125	.04	20	
Nickel	ug/L	334	200	200	464	465	65	66	75-125	.2	20	M0
Potassium	ug/L	23100	10000	10000	29800	29800	67	67	75-125	.1	20	M0
Selenium	ug/L	0.37J	200	200	208	197	104	99	75-125	5	20	
Silver	ug/L	ND	100	100	83.4	87.7	83	88	75-125	5	20	
Sodium	ug/L	34300	10000	10000	39200	39400	50	52	75-125	.5	20	M0
Thallium	ug/L	ND	200	200	197	193	98	97	75-125	2	20	
Vanadium	ug/L	ND	200	200	193	194	96	97	75-125	.6	20	
Zinc	ug/L	7.9J	200	200	194	190	93	91	75-125	2	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WET/1060 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 3514
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	10.0	
Alkalinity, Total as CaCO3	mg/L	ND	10.0	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	10.0	

LABORATORY CONTROL SAMPLE: 3515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3516 3517

Parameter	Units	401216001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	500	500	504	502	100	100	80-120	.4	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1067 | Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 | Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004

METHOD BLANK: 3529
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	ND	0.020	

LABORATORY CONTROL SAMPLE: 3530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	110	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3531 3532

Parameter	Units	401128001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0067J	.1	.1	0.11	0.10	101	94	90-110	7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3533 3534

Parameter	Units	401216004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.014J	.1	.1	0.12	0.12	104	105	90-110	.7	20	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1068 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 401216005, 401216006, 401216007

METHOD BLANK: 3535
Associated Lab Samples: 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	0.013J	0.020	

LABORATORY CONTROL SAMPLE: 3536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.091	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3537 3538

Parameter	Units	401250003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.016J	.1	.1	0.12	0.12	100	103	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3539 3540

Parameter	Units	401286017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.099J	.6	.6	0.76	0.71	111	102	90-110	7	20	M3

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: CVFS/1009 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005

METHOD BLANK: 3574
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.209J	0.50	

METHOD BLANK: 3575
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.326J	0.50	

METHOD BLANK: 3576
Associated Lab Samples: 401216001, 401216002, 401216003, 401216004, 401216005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.326J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 3577 3578

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	4.71	4.86	94	97	79-121	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3738 3739

Parameter	Units	401190004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	2.53	20	20	22.0	21.6	97	96	75-124	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740 3741

Parameter	Units	401190005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.66	5	5	6.71	6.49	101	97	75-124	3	24	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: CVFS/1010 — Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E — Analysis Description: 1631E Mercury
Associated Lab Samples: 401216006, 401216007

METHOD BLANK: 3756
Associated Lab Samples: 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.194J	0.50	

METHOD BLANK: 3757
Associated Lab Samples: 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.229J	0.50	

METHOD BLANK: 3758
Associated Lab Samples: 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.354J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 3759 3760

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	4.67	5.05	93	101	79-121	8	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116 4117

Parameter	Units	9214836002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	32.3	100	100	135	141	103	108	75-124	4	24	

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1082
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 401216001

METHOD BLANK: 4466
Associated Lab Samples: 401216001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1.0	

LABORATORY CONTROL SAMPLE: 4467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4468 4469

Parameter	Units	401168008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	2700	10	10	2700	2800	-2	1090	90-110	4	20	P6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4470 4471

Parameter	Units	401342003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	10	10	8.7	8.8	84	86	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

QC Batch: WETA/1117 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

METHOD BLANK: 6072
Associated Lab Samples: 401216002, 401216003, 401216004, 401216005, 401216006, 401216007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	ND	2.0	

LABORATORY CONTROL SAMPLE: 6073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	99.2	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6074 6075

Parameter	Units	401216003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	9.4	100	100	107	110	98	101	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6076 6077

Parameter	Units	401290003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	9.2	100	100	111	116	101	107	80-120	5	20	

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QUALIFIERS

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1j	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the limits of 0-10%. The sample concentration is greater than 100 times the IDL.
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M0	Matrix spike recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401216001	FBK-004	EPA 300.0	WETA/1038		
401216002	DUP-004	EPA 300.0	WETA/1038		
401216003	HPL-004 3'	EPA 300.0	WETA/1038		
401216004	HPL-004 15'	EPA 300.0	WETA/1038		
401216005	HPL-004 60'	EPA 300.0	WETA/1038		
401216006	HPL-004 120'	EPA 300.0	WETA/1038		
401216007	HPL-004 175'	EPA 300.0	WETA/1038		
401216001	FBK-004	EPA 300.0	WETA/1039		
401216002	DUP-004	EPA 300.0	WETA/1039		
401216003	HPL-004 3'	EPA 300.0	WETA/1039		
401216004	HPL-004 15'	EPA 300.0	WETA/1039		
401216005	HPL-004 60'	EPA 300.0	WETA/1039		
401216006	HPL-004 120'	EPA 300.0	WETA/1039		
401216007	HPL-004 175'	EPA 300.0	WETA/1039		
401216001	FBK-004	SM 2130B	WET/1035		
401216002	DUP-004	SM 2130B	WET/1035		
401216003	HPL-004 3'	SM 2130B	WET/1035		
401216004	HPL-004 15'	SM 2130B	WET/1035		
401216005	HPL-004 60'	SM 2130B	WET/1035		
401216006	HPL-004 120'	SM 2130B	WET/1035		
401216007	HPL-004 175'	SM 2130B	WET/1035		
401216001	FBK-004	SM 5310C	WETA/1043		
401216002	DUP-004	SM 5310C	WETA/1043		
401216003	HPL-004 3'	SM 5310C	WETA/1043		
401216004	HPL-004 15'	SM 5310C	WETA/1043		
401216005	HPL-004 60'	SM 5310C	WETA/1043		
401216006	HPL-004 120'	SM 5310C	WETA/1043		
401216007	HPL-004 175'	SM 5310C	WETA/1043		
401216001	FBK-004	SM 2540D	WET/1038		
401216002	DUP-004	SM 2540D	WET/1038		
401216003	HPL-004 3'	SM 2540D	WET/1038		
401216004	HPL-004 15'	SM 2540D	WET/1038		
401216005	HPL-004 60'	SM 2540D	WET/1038		
401216006	HPL-004 120'	SM 2540D	WET/1038		
401216007	HPL-004 175'	SM 2540D	WET/1038		
401216001	FBK-004	SM 2540C	WET/1039		
401216001	FBK-004	SM 4500-S F (2000)	WET/1040		
401216002	DUP-004	SM 4500-S F (2000)	WET/1040		
401216003	HPL-004 3'	SM 4500-S F (2000)	WET/1040		
401216004	HPL-004 15'	SM 4500-S F (2000)	WET/1040		
401216005	HPL-004 60'	SM 4500-S F (2000)	WET/1040		
401216006	HPL-004 120'	SM 4500-S F (2000)	WET/1040		
401216007	HPL-004 175'	SM 4500-S F (2000)	WET/1040		
401216001	FBK-004	EPA 410.4	WETA/1048		
401216002	DUP-004	EPA 410.4	WETA/1048		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401216003	HPL-004 3'	EPA 410.4	WETA/1048		
401216004	HPL-004 15'	EPA 410.4	WETA/1048		
401216005	HPL-004 60'	EPA 410.4	WETA/1048		
401216006	HPL-004 120'	EPA 410.4	WETA/1048		
401216007	HPL-004 175'	EPA 410.4	WETA/1048		
401216002	DUP-004	EPA 350.1	WETA/1053		
401216003	HPL-004 3'	EPA 350.1	WETA/1053		
401216004	HPL-004 15'	EPA 350.1	WETA/1053		
401216005	HPL-004 60'	EPA 350.1	WETA/1053		
401216006	HPL-004 120'	EPA 350.1	WETA/1053		
401216007	HPL-004 175'	EPA 350.1	WETA/1053		
401216002	DUP-004	SM 2540C	WET/1047		
401216003	HPL-004 3'	SM 2540C	WET/1047		
401216004	HPL-004 15'	SM 2540C	WET/1047		
401216005	HPL-004 60'	SM 2540C	WET/1053		
401216006	HPL-004 120'	SM 2540C	WET/1053		
401216007	HPL-004 175'	SM 2540C	WET/1053		
401216001	FBK-004	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401216002	DUP-004	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401216003	HPL-004 3'	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401216004	HPL-004 15'	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401216005	HPL-004 60'	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401216006	HPL-004 120'	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401216007	HPL-004 175'	EPA 3020	MPRP/1039	EPA 6020	ICPM/1015
401216001	FBK-004	SM 2320B	WET/1060		
401216002	DUP-004	SM 2320B	WET/1060		
401216003	HPL-004 3'	SM 2320B	WET/1060		
401216004	HPL-004 15'	SM 2320B	WET/1060		
401216005	HPL-004 60'	SM 2320B	WET/1060		
401216006	HPL-004 120'	SM 2320B	WET/1060		
401216007	HPL-004 175'	SM 2320B	WET/1060		
401216001	FBK-004	EPA 335.4	WETA/1067		
401216002	DUP-004	EPA 335.4	WETA/1067		
401216003	HPL-004 3'	EPA 335.4	WETA/1067		
401216004	HPL-004 15'	EPA 335.4	WETA/1067		
401216005	HPL-004 60'	EPA 335.4	WETA/1068		
401216006	HPL-004 120'	EPA 335.4	WETA/1068		
401216007	HPL-004 175'	EPA 335.4	WETA/1068		
401216001	FBK-004	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401216002	DUP-004	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401216003	HPL-004 3'	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401216004	HPL-004 15'	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401216005	HPL-004 60'	EPA 1631E	CVFS/1009	EPA 1631E	CVFS/1011
401216006	HPL-004 120'	EPA 1631E	CVFS/1010	EPA 1631E	CVFS/1013

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 06W003 HUMBOLDT SURFACE WATERS
Pace Project No.: 401216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
401216007	**HPL-004 175'**	EPA 1631E	CVFS/1010	EPA 1631E	CVFS/1013
401216001	**FBK-004**	EPA 350.1	WETA/1082		
401216002	**DUP-004**	SM 5310C	WETA/1117		
401216003	**HPL-004 3'**	SM 5310C	WETA/1117		
401216004	**HPL-004 15'**	SM 5310C	WETA/1117		
401216005	**HPL-004 60'**	SM 5310C	WETA/1117		
401216006	**HPL-004 120'**	SM 5310C	WETA/1117		
401216007	**HPL-004 175'**	SM 5310C	WETA/1117		

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Waltz Mill Radiochemistry Lab
P.O. Box 158
Bldg. G, M/S 62
Madison, PA 15663
Phone: 724.722.5214
Fax: 724.722.5208

March 25, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
401216 Foth & Van Dyke
Pace Project No. 08-1116

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on March 7, 2008 and logged in for analysis on March 10, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:tew

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-1116
CLIENT: 401216 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0803-0241C	401216001 (FBK-004)	0803-0242C	401216002 (DUP-004)
0803-0243C	401216003 (HPL-004 3	0803-0244C	401216004 (HPL-004 1
0803-0245C	401216005 (HPL-004 6	0803-0246C	401216006 (HPL-004 1
0803-0247C	401216007 (HPL-004 1		

C: SHIPPING/RECEIVING COMMENTS:

Final Report 03-25-08.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-1116
Groundwater Characterization; 401216 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0803-0241C	401216001 (FBK-004)	(3/3/08)	03/21/08	0.758 ± 0.630	(1.07)
0803-0242C	401216002 (DUP-004)	(3/3/08)	03/21/08	2.67 ± 1.76	(2.63)
0803-0243C	401216003 (HPL-004 3')	(3/3/08)	03/21/08	3.07 ± 1.94	(2.60)
0803-0244C	401216004 (HPL-004 15')	(3/3/08)	03/21/08	1.17 ± 1.27	(2.36)
0803-0245C	401216005 (HPL-004 60')	(3/3/08)	03/21/08	2.17 ± 1.44	(2.36)
0803-0246C	401216006 (HPL-004 120')	(3/3/08)	03/21/08	3.52 ± 2.09	(2.70)
0803-0247C	401216007 (HPL-004 175')	(3/3/08)	03/21/08	2.19 ± 1.49	(2.24)
0803-0248C	Method Blank	(3/7/08)	03/20/08	0.322 ± 0.616	(1.41)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0803-0241C	401216001 (FBK-004)	(3/3/08)	03/21/08	1.59 ± 0.989	(1.88)
0803-0242C	401216002 (DUP-004)	(3/3/08)	03/21/08	20.8 ± 4.32	(2.21)
0803-0243C	401216003 (HPL-004 3')	(3/3/08)	03/21/08	4.45 ± 1.55	(1.85)
0803-0244C	401216004 (HPL-004 15')	(3/3/08)	03/21/08	7.04 ± 2.00	(1.92)
0803-0245C	401216005 (HPL-004 60')	(3/3/08)	03/21/08	8.02 ± 1.93	(1.79)
0803-0246C	401216006 (HPL-004 120')	(3/3/08)	03/21/08	10.9 ± 2.65	(1.96)
0803-0247C	401216007 (HPL-004 175')	(3/3/08)	03/21/08	21.8 ± 4.48	(2.22)
0803-0248C	Method Blank	(3/7/08)	03/20/08	0.241 ± 0.779	(1.83)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

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Quality Control Sample Performance Assessment

Test:	Gross Alpha
Analyst:	RMD
Date:	3/21/2008
Worklist:	16230R
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.322
MB Counting Uncertainty:	0.616
MB MDC:	1.409
MB Numerical Performance Indicator:	1.02
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/20/2008	3/20/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.335	93.335
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	39.089	40.245
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.431	4.433
Numerical Performance Indicator:	-2.80	-2.37
Percent Recovery:	83.76%	86.24%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/6/2008
Sample I.D.	0803-0471
Sample MS I.D.	0803-0471MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.336
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.095
MS Target Conc.(pCi/L, g, F):	196.496
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	12.324
Sample Result:	1.952
Sample Result Counting Uncertainty (pCi/L, g, F):	1.443
Sample Matrix Spike Result:	215.173
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	22.720
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	1.266
MSD Numerical Performance Indicator:	
MS Percent Recovery:	108.51%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS16230R
Duplicate Sample I.D.	LCSD16230R
Sample Result (pCi/L, g, F):	39.089
Sample Result Counting Uncertainty (pCi/L, g, F):	4.431
Sample Duplicate Result (pCi/L, g, F):	40.245
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.433
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.361
Duplicate RPD:	2.91%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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Quality Control Sample Performance Assessment

Test:	Gross Beta
Analyst:	RMD
Date:	3/21/2008
Worklist:	16230R
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.241
M/B Counting Uncertainty:	0.779
MB MDC:	1.829
MB Numerical Performance Indicator:	0.61
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	3/20/2008	3/20/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.684	39.684
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.842	19.842
Uncertainty (Calculated):	0.467	0.467
Result (pCi/L, g, F):	17.356	16.685
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.403	2.470
Numerical Performance Indicator:	-1.99	-2.46
Percent Recovery:	87.47%	84.09%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/6/2008
Sample I.D.	0803-0471
Sample MS I.D.	0803-0471MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.721
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.095
MS Target Conc.(pCi/L, g, F):	83 623
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	1.967
Sample Result:	2.351
Sample Result Counting Uncertainty (pCi/L, g, F):	1.006
Sample Matrix Spike Result:	85.436
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	7.369
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-0.137
MSD Numerical Performance Indicator:	
MS Percent Recovery:	99.36%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS16230R
Duplicate Sample I.D.	LCSD16230R
Sample Result (pCi/L, g, F):	17.356
Sample Result Counting Uncertainty (pCi/L, g, F):	2.403
Sample Duplicate Result (pCi/L, g, F):	16.685
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.470
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.382
Duplicate RPD:	3.94%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Pace Analytical Inter-Laboratory IRWO / Sub-COC

Inter-Laboratory Work Order # 401216

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 3/4	Sending Project No:	401216
Receiving Region:	Pace-PA	Receiving Project No:	08-1116
State of Sample Origin:	MI	Date IRWO / Sub-COC Prepared:	3/6/08
Sending Project Manager:	TOD NOLTEMEYER	REQUESTED COMPLETION DATE:	3/17/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	7	$ 60.00	$ 420.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 420.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 420.00	$ 336.00	$ 84.00
Total			$ 336.00	$ 84.00

Sub-COC

P = Poly
G = Glass
AG = Amber Glass

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				
Analyses	Gross Alpha/Beta				

Client Sample ID	Pace Lab Number	Collect Date	Matrix	Method	900	Collect Time			
FBK-004	401216001 0803-0241	03/03/08	W		X	9:00			
DUP-004	401216002 0242	03/03/08	W		X				
HPL-004 3'	401216003 0243	03/03/08	W		X	16:45			
HPL-004 15'	401216004 0244	03/03/08	W		X	16:35			
HPL-004 60'	401216005 0245	03/03/08	W		X	16:25			
HPL-004 120'	401216006 0246	03/03/08	W		X	13:10			
HPL-004 175'	401216007 0247	03/03/08	W		X	15:30			
	MB- 0248C	3/10/08							

Relinquished By: [signature] Date/Time: 3-6-08 1000 Received By: [signature] Date/Time:

Relinquished By: Date/Time: Received By: [signature] Date/Time: 3/7/08 10:3

Receipt Temperature =

Confirmation of Work Completed By Receiving PM: Date:

DISPOSITION of FORM: When work is completed, copy of Sub-COC/IRWO goes to ABM

GBC013a (07June2006)

0000007

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson CO Project # 401216

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other poly bags

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 0.0, 0.0, 0.5 **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: 3-4-08 CG 3/4/08

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrate, turbidity, Nitrite
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SW		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed CG / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AA **Date:** 3/4/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

COC No. 20080303

(Please Print Clearly)	
Company Name:	NORTH JACKSON CO
Branch/Location:	MARQUETTE, MI
Project Contact:	SHARON FELIX
Phone:	
Project Number:	
Project Name:	HUMBOLDT MILL
Project State:	MI
Sampled By (Print):	Andy Maragni Chris Cantway
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	~~JANIS KESY~~ Sharon Felix
Mail To Company:	FOTH I & E
Mail To Address:	GREEN BAY, WI
Invoice To Contact:	SAME AS ABOVE
Invoice To Company:	SAME AS ABOVE
Invoice To Address:	SAME AS ABOVE
Invoice To Phone:	SAME AS ABOVE

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other NaOH ZnAcetate

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☑ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) PRESERVATION (CODE)* Y/N	Pick Letter	Analyses Requested							CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
							(See Foth Parameter List)									
	~~HPL-004~~	3/3/08		SW			4	2	2	1	1	1				
001	FBK-004	3/3/08	0900	W			4	3	2	1	1	—	1-500mlg	A 4-500mlp	A, DXZ, G+ZN 3-250mlp B, C, A	
002	DUP-004	↓	—	SW			4	2	2	1	1	1		↓		
003	HPL-004 3'		1645	SW			4	2	2	1	1	1				
004	HPL-004 15'		1635	SW			4	2	2	1	1	1		3-500mlp A, D,	1-250mlp G+ZN	
005	HPL-004 60'		1625	SW			4	2	2	1	1	1				
006	HPL-004 120'		1310	SW			4	2	2	1	1	1				
007	HPL-004 175'	↓	1530	SW			4	2	2	1	1	1		↓	↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	3/3/08 1800		
FedEx	3-4-08 1025	[signature] Pace	3-4-08 1025

PACE Project No. 401216
Receipt Temp = 0.0, 0.5, 0.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

May 2008

Batch No. 403628

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone: 920.469.2436
Fax: 920.469.8827

June 10, 2008

Janis Kesy
Foth & Van Dyke
2737 South Ridge Road
Green Bay, WI 54304

Dear Ms. Kesy:

Enclosed is a report for the analysis of 40 surface water samples and associated QC samples for the Humboldt Mill project (06W003). These samples were received from May 5 to May 9, 2008. The samples were assigned to batch numbers 403472, 403515, 403549 and 403628 for laboratory tracking purposes.

A table of the results has also been sent to you via e-mail.

If you have any questions regarding this data please call me at (608) 232-3300.

Sincerely,

for Tod N.

Tod Noltemeyer
Project Manager

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	Matrix	Date Collected	Date Received
403628001	FBK-004	Water	05/08/08 15:00	05/09/08 10:10
403628002	DUP-004	Water	05/08/08 00:00	05/09/08 10:10
403628003	HPL-003 3'	Water	05/08/08 13:40	05/09/08 10:10
403628004	HPL-003 15'	Water	05/08/08 14:20	05/09/08 10:10
403628005	HPL-003 60'	Water	05/08/08 14:45	05/09/08 10:10
403628006	HPL-003 120'	Water	05/08/08 15:15	05/09/08 10:10
403628007	HPL-003 175'	Water	05/08/08 15:45	05/09/08 10:10
403628008	HPL-004 3'	Water	05/08/08 09:00	05/09/08 10:10
403628009	HPL-004 15'	Water	05/08/08 10:00	05/09/08 10:10
403628010	HPL-004 60'	Water	05/08/08 10:30	05/09/08 10:10
403628011	HPL-004 120'	Water	05/08/08 11:00	05/09/08 10:10
403628012	HPL-004 175'	Water	05/08/08 11:30	05/09/08 10:10

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
403628001	FBK-004	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628002	DUP-004	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628003	HPL-003 3'	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628004	HPL-003 15'	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628005	HPL-003 60'	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628006	HPL-003 120'	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628007	**HPL-003 175'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628008	**HPL-004 3'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628009	**HPL-004 15'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628010	**HPL-004 60'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628011	**HPL-004 120'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403628012	**HPL-004 175'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Internal standard limits of 30-140% were used. All QC is within acceptable limits.
- QC Batch: ICPM / 1106

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1439

R1: RPD value was outside control limits.

- DUP (Lab ID: 26927)
  - Turbidity

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/1443

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H5: Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.
- DUP-004 (Lab ID: 403628002)
- FBK-004 (Lab ID: 403628001)
- HPL-003 120' (Lab ID: 403628006)
- HPL-003 15' (Lab ID: 403628004)
- HPL-003 175' (Lab ID: 403628007)
- HPL-003 3' (Lab ID: 403628003)
- HPL-003 60' (Lab ID: 403628005)
- HPL-004 120' (Lab ID: 403628011)
- HPL-004 15' (Lab ID: 403628009)
- HPL-004 175' (Lab ID: 403628012)
- HPL-004 3' (Lab ID: 403628008)
- HPL-004 60' (Lab ID: 403628010)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1482

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403628002,403628003

M0: Matrix spike recovery was outside laboratory control limits.
- MSD (Lab ID: 27013)
  - Nitrate as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: WETA/1483

B: Analyte was detected in the associated method blank.

- BLANK (Lab ID: 27022)
  - Chloride

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1483

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403628002,403628003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 27026)
  - Fluoride
  - Sulfate
- MSD (Lab ID: 27027)
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1556

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403549001,403628008

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 30964)
  - Nitrogen, Ammonia

QC Batch: WETA/1557

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403697002,404082001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 30975)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: EPA 410.4
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
12 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: FBK-004 **Lab ID: 403628001** Collected: 05/08/08 15:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.169J**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 12:53	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 18:10	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/12/08 12:32	05/20/08 18:10	7440-36-0	
Arsenic	**<0.093**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 18:10	7440-38-2	
Barium	**0.22J**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 18:10	7440-39-3	B
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 18:10	7440-41-7	
Boron	**2.3J**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 18:10	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 18:10	7440-43-9	
Calcium	**118J**	ug/L	500	10.0	1	05/12/08 12:32	05/20/08 18:10	7440-70-2	B
Chromium	**1.6**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 18:10	7440-47-3	
Cobalt	**<0.059**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 18:10	7440-48-4	
Copper	**0.12J**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 18:10	7440-50-8	
Iron	**45.4J**	ug/L	50.0	2.9	1	05/12/08 12:32	05/20/08 18:10	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 18:10	7439-92-1	
Lithium	**<0.085**	ug/L	1.0	0.085	1	05/12/08 12:32	05/20/08 18:10	7439-93-2	
Magnesium	**<52.6**	ug/L	500	52.6	1	05/12/08 12:32	05/20/08 18:10	7439-95-4	
Manganese	**6.6**	ug/L	1.0	0.080	1	05/12/08 12:32	05/20/08 18:10	7439-96-5	B
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 18:10	7439-98-7	
Nickel	**0.38J**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 18:10	7440-02-0	
Potassium	**56.6J**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 18:10	7440-09-7	
Selenium	**0.32J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 18:17	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 18:10	7440-22-4	
Sodium	**420J**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 18:10	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 18:10	7440-28-0	
Total Hardness	**0.47J**	mg/L	5.0	0.15	1	05/12/08 12:32	05/20/08 18:10		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 18:10	7440-62-2	
Zinc	**4.6J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 18:10	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.53J**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:35		
Alkalinity, Carbonate (CaCO3)	**8.9J**	mg/L	10.0	3.2	1		05/16/08 15:35		
Alkalinity, Total as CaCO3	**8.9J**	mg/L	10.0	3.2	1		05/16/08 15:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**28.0**	mg/L	20.0	12.0	1		05/15/08 10:37		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: FBK-004 **Lab ID: 403628001** Collected: 05/08/08 15:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/09/08 19:36	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 00:08	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.0J**	mg/L	5.0	1.1	1		05/09/08 19:36	16887-00-6	B
Fluoride	**<0.059**	mg/L	0.50	0.059	1		05/09/08 19:36	16984-48-8	
Sulfate	**1.6J**	mg/L	4.0	0.51	1		05/09/08 19:36	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/20/08 09:51	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:09	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		05/14/08 17:28		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		05/28/08 13:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		06/02/08 16:19		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: DUP-004 **Lab ID: 403628002** Collected: 05/08/08 00:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.74**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 12:57	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.4J**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 20:52	7429-90-5	
Antimony	**6.8**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 21:02	7440-36-0	
Arsenic	**0.62J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 20:52	7440-38-2	
Barium	**6.8**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 21:02	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 20:52	7440-41-7	
Boron	**70.7**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 20:52	7440-42-8	
Cadmium	**0.13J**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 20:52	7440-43-9	
Calcium	**43800**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 19:49	7440-70-2	
Chromium	**0.45J**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 20:52	7440-47-3	
Cobalt	**3.8**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 20:52	7440-48-4	
Copper	**1.8**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 20:52	7440-50-8	
Iron	**314**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 21:02	7439-89-6	B
Lead	**0.060J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 20:52	7439-92-1	
Lithium	**2.7**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 21:02	7439-93-2	
Magnesium	**19500**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 19:49	7439-95-4	
Manganese	**237**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 21:02	7439-96-5	
Molybdenum	**10.8**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 20:52	7439-98-7	
Nickel	**17.0**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 20:52	7440-02-0	
Potassium	**7340**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 20:52	7440-09-7	
Selenium	**0.38J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/20/08 20:52	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 20:52	7440-22-4	
Sodium	**11100**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 20:52	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 21:02	7440-28-0	
Total Hardness	**190**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 19:49		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 20:52	7440-62-2	
Zinc	**5.4J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 20:52	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.7**	NTU	1.0	0.44	1		05/09/08 17:15		R1
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	10.0	3.2	1		05/16/08 15:37		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:37		
Alkalinity, Total as CaCO3	**102**	mg/L	10.0	3.2	1		05/16/08 15:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**348**	mg/L	20.0	12.0	1		05/15/08 10:38		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.40J**	mg/L	1.0	0.31	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: DUP-004 **Lab ID: 403628002** Collected: 05/08/08 00:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.0**	mg/L	0.40	0.085	1		05/09/08 19:51	14797-55-8	M0
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 00:22	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.2**	mg/L	5.0	1.1	1		05/09/08 19:51	16887-00-6	B
Fluoride	**0.32J**	mg/L	0.50	0.059	1		05/09/08 19:51	16984-48-8	
Sulfate	**134**	mg/L	20.0	2.6	5		05/13/08 18:42	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/20/08 09:52	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:09	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		05/14/08 17:28		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**14.9**	mg/L	2.0	1.4	1		05/28/08 13:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.3**	mg/L	2.0	1.4	1		06/02/08 16:25		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 3' **Lab ID: 403628003** Collected: 05/08/08 13:40 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.389J**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 13:43	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.6J**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 20:58	7429-90-5	
Antimony	**7.0**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 21:08	7440-36-0	
Arsenic	**0.79J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 20:58	7440-38-2	
Barium	**7.2**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 21:08	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 20:58	7440-41-7	
Boron	**68.8**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 20:58	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 20:58	7440-43-9	
Calcium	**46700**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 19:55	7440-70-2	
Chromium	**0.66J**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 20:58	7440-47-3	
Cobalt	**3.7**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 20:58	7440-48-4	
Copper	**1.5**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 20:58	7440-50-8	
Iron	**335**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 21:08	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 20:58	7439-92-1	
Lithium	**2.8**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 21:08	7439-93-2	
Magnesium	**21100**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 19:55	7439-95-4	
Manganese	**248**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 21:08	7439-96-5	
Molybdenum	**10.6**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 20:58	7439-98-7	
Nickel	**16.1**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 20:58	7440-02-0	
Potassium	**7050**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 20:58	7440-09-7	
Selenium	**0.87J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/20/08 20:58	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 20:58	7440-22-4	
Sodium	**10500**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 20:58	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 21:08	7440-28-0	
Total Hardness	**203**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 19:55		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 20:58	7440-62-2	
Zinc	**4.8J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 20:58	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.2**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	10.0	3.2	1		05/16/08 15:37		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:37		
Alkalinity, Total as CaCO3	**102**	mg/L	10.0	3.2	1		05/16/08 15:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**342**	mg/L	20.0	12.0	1		05/15/08 10:38		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 3' **Lab ID: 403628003** Collected: 05/08/08 13:40 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		05/09/08 21:02	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 01:04	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**13.0**	mg/L	5.0	1.1	1		05/09/08 21:02	16887-00-6	B
Fluoride	**0.38J**	mg/L	0.50	0.059	1		05/09/08 21:02	16984-48-8	
Sulfate	**129**	mg/L	20.0	2.6	5		05/13/08 19:24	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/20/08 09:53	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:10	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		05/14/08 17:29		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.2**	mg/L	2.0	1.4	1		05/29/08 10:44	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.5**	mg/L	2.0	1.4	1		06/02/08 16:45		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 15' **Lab ID: 403628004** Collected: 05/08/08 14:20 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.22**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 13:47	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**5.8J**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 21:04	7429-90-5	
Antimony	**6.8**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 21:14	7440-36-0	
Arsenic	**0.66J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 21:04	7440-38-2	
Barium	**6.8**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 21:14	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 21:04	7440-41-7	
Boron	**69.6**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 21:04	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 21:04	7440-43-9	
Calcium	**46000**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 20:01	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 21:04	7440-47-3	
Cobalt	**3.8**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 21:04	7440-48-4	
Copper	**1.6**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 21:04	7440-50-8	
Iron	**319**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 21:14	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 21:04	7439-92-1	
Lithium	**2.8**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 21:14	7439-93-2	
Magnesium	**20800**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 20:01	7439-95-4	
Manganese	**245**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 21:14	7439-96-5	
Molybdenum	**10.7**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 21:04	7439-98-7	
Nickel	**16.6**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 21:04	7440-02-0	
Potassium	**7140**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 21:04	7440-09-7	
Selenium	**0.28J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/20/08 21:04	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 21:04	7440-22-4	
Sodium	**10800**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 21:04	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 21:14	7440-28-0	
Total Hardness	**201**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 20:01		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 21:04	7440-62-2	
Zinc	**4.4J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 21:04	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.7**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	10.0	3.2	1		05/16/08 15:38		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:38		
Alkalinity, Total as CaCO3	**102**	mg/L	10.0	3.2	1		05/16/08 15:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**340**	mg/L	20.0	12.0	1		05/15/08 10:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.33**	mg/L	1.1	0.33	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 15' **Lab ID: 403628004** Collected: 05/08/08 14:20 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		05/09/08 21:44	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 01:47	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.2**	mg/L	5.0	1.1	1		05/09/08 21:44	16887-00-6	B
Fluoride	**0.33J**	mg/L	0.50	0.059	1		05/09/08 21:44	16984-48-8	
Sulfate	**133**	mg/L	20.0	2.6	5		05/13/08 20:07	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/20/08 09:54	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:11	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		05/14/08 17:31		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**16.0**	mg/L	2.0	1.4	1		05/28/08 14:19	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.2**	mg/L	2.0	1.4	1		06/02/08 16:50		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 60' **Lab ID: 403628005** Collected: 05/08/08 14:45 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.446J**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 14:01	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 21:10	7429-90-5	
Antimony	**7.9**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 21:20	7440-36-0	
Arsenic	**0.48J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 21:10	7440-38-2	
Barium	**7.5**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 21:20	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 21:10	7440-41-7	
Boron	**70.8**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 21:10	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 21:10	7440-43-9	
Calcium	**49900**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 20:07	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 21:10	7440-47-3	
Cobalt	**4.1**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 21:10	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 21:10	7440-50-8	
Iron	**383**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 21:20	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 21:10	7439-92-1	
Lithium	**3.1**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 21:20	7439-93-2	
Magnesium	**22700**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 20:07	7439-95-4	
Manganese	**294**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 21:20	7439-96-5	
Molybdenum	**11.2**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 21:10	7439-98-7	
Nickel	**18.8**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 21:10	7440-02-0	
Potassium	**7380**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 21:10	7440-09-7	
Selenium	**0.21J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/20/08 21:10	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 21:10	7440-22-4	
Sodium	**10700**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 21:10	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 21:20	7440-28-0	
Total Hardness	**218**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 20:07		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 21:10	7440-62-2	
Zinc	**3.8J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 21:10	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.6**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	10.0	3.2	1		05/16/08 15:38		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:38		
Alkalinity, Total as CaCO3	**104**	mg/L	10.0	3.2	1		05/16/08 15:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**360**	mg/L	20.0	12.0	1		05/15/08 10:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.33**	mg/L	1.1	0.33	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 60' **Lab ID: 403628005** Collected: 05/08/08 14:45 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.2**	mg/L	0.40	0.085	1		05/09/08 21:58	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 02:30	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.8**	mg/L	5.0	1.1	1		05/09/08 21:58	16887-00-6	B
Fluoride	**0.33J**	mg/L	0.50	0.059	1		05/09/08 21:58	16984-48-8	
Sulfate	**144**	mg/L	20.0	2.6	5		05/13/08 20:21	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/20/08 09:55	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:14	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		05/14/08 17:31		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**14.0**	mg/L	2.0	1.4	1		05/28/08 14:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.2**	mg/L	2.0	1.4	1		06/02/08 16:56		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 120' **Lab ID: 403628006** Collected: 05/08/08 15:15 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.519**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 14:06	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/29/08 21:26	7429-90-5	
Antimony	**31.8**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 21:26	7440-36-0	
Arsenic	**0.31J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/29/08 21:26	7440-38-2	
Barium	**8.5**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 21:26	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/29/08 21:26	7440-41-7	
Boron	**127**	ug/L	10.0	1.1	1	05/12/08 12:32	05/29/08 21:26	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/29/08 21:26	7440-43-9	
Calcium	**50400**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 20:13	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/29/08 21:26	7440-47-3	
Cobalt	**16.7**	ug/L	1.0	0.059	1	05/12/08 12:32	05/29/08 21:26	7440-48-4	
Copper	**2.9**	ug/L	1.0	0.12	1	05/12/08 12:32	05/29/08 21:26	7440-50-8	
Iron	**120**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 21:26	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/12/08 12:32	05/29/08 21:26	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 21:26	7439-93-2	
Magnesium	**25800**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 20:13	7439-95-4	
Manganese	**1370**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 21:26	7439-96-5	
Molybdenum	**44.9**	ug/L	10.0	0.11	1	05/12/08 12:32	05/29/08 21:26	7439-98-7	
Nickel	**219**	ug/L	1.0	0.074	1	05/12/08 12:32	05/29/08 21:26	7440-02-0	
Potassium	**15400**	ug/L	5000	62.1	10	05/12/08 12:32	05/29/08 20:13	7440-09-7	
Selenium	**0.28J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 21:26	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	06/03/08 14:48	7440-22-4	
Sodium	**24200**	ug/L	5000	460	10	05/12/08 12:32	05/29/08 20:13	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 21:26	7440-28-0	
Total Hardness	**232**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 20:13		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/29/08 21:26	7440-62-2	
Zinc	**6.4J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/29/08 21:26	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.1**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**142**	mg/L	10.0	3.2	1		05/16/08 15:38		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:38		
Alkalinity, Total as CaCO3	**142**	mg/L	10.0	3.2	1		05/16/08 15:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**430**	mg/L	20.0	12.0	1		05/15/08 10:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.33**	mg/L	1.1	0.33	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 120' **Lab ID: 403628006** Collected: 05/08/08 15:15 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.5**	mg/L	0.40	0.085	1		05/09/08 22:12	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 02:44	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**22.9**	mg/L	5.0	1.1	1		05/09/08 22:12	16887-00-6	B
Fluoride	**0.39J**	mg/L	0.50	0.059	1		05/09/08 22:12	16984-48-8	
Sulfate	**169**	mg/L	40.0	5.1	10		05/13/08 20:35	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0080J**	mg/L	0.020	0.0060	1		05/20/08 09:55	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**2.7**	mg/L	1.0	0.50	1		05/21/08 14:15	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		05/14/08 17:31		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**8.6**	mg/L	2.0	1.4	1		05/28/08 14:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.7**	mg/L	2.0	1.4	1		06/02/08 17:01		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 175' **Lab ID: 403628007** Collected: 05/08/08 15:45 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.274J**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 14:11	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/29/08 21:33	7429-90-5	
Antimony	**40.4**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 21:33	7440-36-0	
Arsenic	**0.41J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/29/08 21:33	7440-38-2	
Barium	**11.9**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 21:33	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/29/08 21:33	7440-41-7	
Boron	**166**	ug/L	10.0	1.1	1	05/12/08 12:32	05/29/08 21:33	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/29/08 21:33	7440-43-9	
Calcium	**53900**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 20:19	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/29/08 21:33	7440-47-3	
Cobalt	**25.6**	ug/L	1.0	0.059	1	05/12/08 12:32	05/29/08 21:33	7440-48-4	
Copper	**3.8**	ug/L	1.0	0.12	1	05/12/08 12:32	05/29/08 21:33	7440-50-8	
Iron	**182**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 21:33	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/12/08 12:32	05/29/08 21:33	7439-92-1	
Lithium	**4.0**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 21:33	7439-93-2	
Magnesium	**29300**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 20:19	7439-95-4	
Manganese	**2700**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 21:33	7439-96-5	
Molybdenum	**64.6**	ug/L	10.0	0.11	1	05/12/08 12:32	05/29/08 21:33	7439-98-7	
Nickel	**333**	ug/L	1.0	0.074	1	05/12/08 12:32	05/29/08 21:33	7440-02-0	
Potassium	**20000**	ug/L	5000	62.1	10	05/12/08 12:32	05/29/08 20:19	7440-09-7	
Selenium	**0.26J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 21:33	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	06/03/08 15:16	7440-22-4	
Sodium	**31300**	ug/L	5000	460	10	05/12/08 12:32	05/29/08 20:19	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 21:33	7440-28-0	
Total Hardness	**255**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 20:19		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/29/08 21:33	7440-62-2	
Zinc	**6.0J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/29/08 21:33	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.7**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**166**	mg/L	10.0	3.2	1		05/16/08 15:39		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:39		
Alkalinity, Total as CaCO3	**166**	mg/L	10.0	3.2	1		05/16/08 15:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**466**	mg/L	20.0	12.0	1		05/15/08 10:41		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/14/08 12:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-003 175' **Lab ID: 403628007** Collected: 05/08/08 15:45 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.2**	mg/L	0.40	0.085	1		05/09/08 22:27	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 02:58	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**27.4**	mg/L	5.0	1.1	1		05/09/08 22:27	16887-00-6	B
Fluoride	**0.43J**	mg/L	0.50	0.059	1		05/09/08 22:27	16984-48-8	
Sulfate	**180**	mg/L	40.0	5.1	10		05/13/08 20:49	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0094J**	mg/L	0.020	0.0060	1		05/20/08 09:56	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**5.0**	mg/L	1.0	0.50	1		05/21/08 14:15	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		05/14/08 17:32		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**15.3**	mg/L	2.0	1.4	1		05/28/08 15:11	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.3**	mg/L	2.0	1.4	1		06/02/08 17:11		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 3' **Lab ID: 403628008** Collected: 05/08/08 09:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.527**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 14:15	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/29/08 21:39	7429-90-5	
Antimony	**7.4**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 21:39	7440-36-0	
Arsenic	**0.47J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/29/08 21:39	7440-38-2	
Barium	**7.4**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 21:39	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/29/08 21:39	7440-41-7	
Boron	**78.3**	ug/L	10.0	1.1	1	05/12/08 12:32	05/29/08 21:39	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/29/08 21:39	7440-43-9	
Calcium	**48200**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 20:25	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/29/08 21:39	7440-47-3	
Cobalt	**3.7**	ug/L	1.0	0.059	1	05/12/08 12:32	05/29/08 21:39	7440-48-4	
Copper	**2.0**	ug/L	1.0	0.12	1	05/12/08 12:32	05/29/08 21:39	7440-50-8	
Iron	**347**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 21:39	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/12/08 12:32	05/29/08 21:39	7439-92-1	
Lithium	**2.9**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 21:39	7439-93-2	
Magnesium	**21700**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 20:25	7439-95-4	
Manganese	**257**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 21:39	7439-96-5	
Molybdenum	**10.1**	ug/L	10.0	0.11	1	05/12/08 12:32	05/29/08 21:39	7439-98-7	
Nickel	**16.6**	ug/L	1.0	0.074	1	05/12/08 12:32	05/29/08 21:39	7440-02-0	
Potassium	**7060**	ug/L	5000	62.1	10	05/12/08 12:32	05/29/08 20:25	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 21:39	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	06/03/08 15:22	7440-22-4	
Sodium	**12000**	ug/L	5000	460	10	05/12/08 12:32	05/29/08 20:25	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 21:39	7440-28-0	
Total Hardness	**210**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 20:25		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/29/08 21:39	7440-62-2	
Zinc	**3.8J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/29/08 21:39	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**5.8**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	10.0	3.2	1		05/16/08 15:39		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:39		
Alkalinity, Total as CaCO3	**104**	mg/L	10.0	3.2	1		05/16/08 15:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**336**	mg/L	20.0	12.0	1		05/15/08 10:41		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 3' **Lab ID: 403628008** Collected: 05/08/08 09:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.0**	mg/L	0.40	0.085	1		05/09/08 22:41	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 03:12	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.1**	mg/L	5.0	1.1	1		05/09/08 22:41	16887-00-6	B
Fluoride	**0.32J**	mg/L	0.50	0.059	1		05/09/08 22:41	16984-48-8	
Sulfate	**137**	mg/L	20.0	2.6	5		05/13/08 21:32	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/20/08 10:00	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:16	7664-41-7	M0
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		05/14/08 17:32		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**14.6**	mg/L	2.0	1.4	1		05/28/08 15:17	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.4**	mg/L	2.0	1.4	1		06/02/08 17:21		

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(920)469-2436

ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 15' **Lab ID: 403628009** Collected: 05/08/08 10:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.457J**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 14:52	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/29/08 21:57	7429-90-5	
Antimony	**7.6**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 21:57	7440-36-0	
Arsenic	**0.53J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 21:46	7440-38-2	
Barium	**8.0**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 21:46	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 21:46	7440-41-7	
Boron	**70.8**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 21:46	7440-42-8	
Cadmium	**0.10J**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 21:46	7440-43-9	
Calcium	**50700**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 20:43	7440-70-2	
Chromium	**0.49J**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 21:46	7440-47-3	
Cobalt	**4.0**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 21:46	7440-48-4	
Copper	**1.6**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 21:46	7440-50-8	
Iron	**360**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 21:57	7439-89-6	B
Lead	**0.070J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 21:46	7439-92-1	
Lithium	**2.8**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 21:57	7439-93-2	
Magnesium	**22900**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 20:43	7439-95-4	
Manganese	**265**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 21:57	7439-96-5	
Molybdenum	**11.2**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 21:46	7439-98-7	
Nickel	**17.4**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 21:46	7440-02-0	
Potassium	**7500**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 21:46	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 21:57	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 21:46	7440-22-4	
Sodium	**11600**	ug/L	5000	460	10	05/12/08 12:32	05/20/08 20:34	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 21:57	7440-28-0	
Total Hardness	**221**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 20:43		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 21:46	7440-62-2	
Zinc	**4.8J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 21:46	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.9**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	10.0	3.2	1		05/16/08 15:39		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:39		
Alkalinity, Total as CaCO3	**102**	mg/L	10.0	3.2	1		05/16/08 15:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**338**	mg/L	20.0	12.0	1		05/15/08 10:42		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 15' **Lab ID: 403628009** Collected: 05/08/08 10:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		05/09/08 22:55	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 03:26	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.2**	mg/L	5.0	1.1	1		05/09/08 22:55	16887-00-6	B
Fluoride	**0.32J**	mg/L	0.50	0.059	1		05/09/08 22:55	16984-48-8	
Sulfate	**134**	mg/L	20.0	2.6	5		05/13/08 21:46	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/20/08 10:01	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:20	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		05/14/08 17:32		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**16.3**	mg/L	2.0	1.4	1		05/28/08 15:29	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.3**	mg/L	2.0	1.4	1		06/02/08 17:27		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 60' **Lab ID: 403628010** Collected: 05/08/08 10:30 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.216J**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 14:57	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/29/08 22:03	7429-90-5	
Antimony	**8.1**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 22:03	7440-36-0	
Arsenic	**0.67J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 21:52	7440-38-2	
Barium	**7.6**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 21:52	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 21:52	7440-41-7	
Boron	**71.3**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 21:52	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 21:52	7440-43-9	
Calcium	**49300**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 20:50	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 21:52	7440-47-3	
Cobalt	**4.1**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 21:52	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 21:52	7440-50-8	
Iron	**399**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 22:03	7439-89-6	B
Lead	**0.060J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 21:52	7439-92-1	
Lithium	**3.6**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 22:03	7439-93-2	
Magnesium	**22200**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 20:50	7439-95-4	
Manganese	**305**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 22:03	7439-96-5	
Molybdenum	**11.7**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 21:52	7439-98-7	
Nickel	**19.7**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 21:52	7440-02-0	
Potassium	**7260**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 21:52	7440-09-7	
Selenium	**0.58J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 22:03	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 21:52	7440-22-4	
Sodium	**11800**	ug/L	5000	460	10	05/12/08 12:32	05/20/08 20:40	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 22:03	7440-28-0	
Total Hardness	**214**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 20:50		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 21:52	7440-62-2	
Zinc	**4.8J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 21:52	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.3**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**107**	mg/L	10.0	3.2	1		05/16/08 15:40		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:40		
Alkalinity, Total as CaCO3	**107**	mg/L	10.0	3.2	1		05/16/08 15:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**350**	mg/L	20.0	12.0	1		05/15/08 10:42		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 60' **Lab ID: 403628010** Collected: 05/08/08 10:30 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.2**	mg/L	0.40	0.085	1		05/09/08 23:09	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 03:40	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.9**	mg/L	5.0	1.1	1		05/09/08 23:09	16887-00-6	B
Fluoride	**0.31J**	mg/L	0.50	0.059	1		05/09/08 23:09	16984-48-8	
Sulfate	**148**	mg/L	20.0	2.6	5		05/13/08 22:00	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/20/08 10:03	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:20	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<11.3**	mg/L	52.6	11.3	1		05/14/08 17:33		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**20.1**	mg/L	2.0	1.4	1		05/28/08 15:40	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.5**	mg/L	2.0	1.4	1		06/02/08 17:31		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 120' **Lab ID: 403628011** Collected: 05/08/08 11:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.253J**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 15:02	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/29/08 22:10	7429-90-5	
Antimony	**37.5**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 22:10	7440-36-0	
Arsenic	**0.45J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 21:59	7440-38-2	
Barium	**8.8**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 21:59	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 21:59	7440-41-7	
Boron	**118**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 21:59	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 21:59	7440-43-9	
Calcium	**50500**	ug/L	5000	100	10	05/12/08 12:32	05/29/08 20:56	7440-70-2	
Chromium	**0.85J**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 21:59	7440-47-3	
Cobalt	**17.1**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 21:59	7440-48-4	
Copper	**2.5**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 21:59	7440-50-8	
Iron	**145**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 22:10	7439-89-6	B
Lead	**0.080J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 21:59	7439-92-1	
Lithium	**3.9**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 22:10	7439-93-2	
Magnesium	**25600**	ug/L	5000	526	10	05/12/08 12:32	05/29/08 20:56	7439-95-4	
Manganese	**1580**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 22:10	7439-96-5	
Molybdenum	**48.2**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 21:59	7439-98-7	
Nickel	**219**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 21:59	7440-02-0	
Potassium	**15500**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 21:59	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 22:10	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 21:59	7440-22-4	
Sodium	**24700**	ug/L	5000	460	10	05/12/08 12:32	05/20/08 20:46	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/29/08 22:10	7440-28-0	
Total Hardness	**231**	mg/L	50.0	1.5	10	05/12/08 12:32	05/29/08 20:56		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 21:59	7440-62-2	
Zinc	**5.5J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 21:59	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.3**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**142**	mg/L	10.0	3.2	1		05/16/08 15:40		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:40		
Alkalinity, Total as CaCO3	**142**	mg/L	10.0	3.2	1		05/16/08 15:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**430**	mg/L	20.0	12.0	1		05/15/08 10:43		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 120' **Lab ID: 403628011** Collected: 05/08/08 11:00 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.4**	mg/L	0.40	0.085	1		05/09/08 23:52	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 03:55	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.0**	mg/L	5.0	1.1	1		05/09/08 23:52	16887-00-6	B
Fluoride	**0.39J**	mg/L	0.50	0.059	1		05/09/08 23:52	16984-48-8	
Sulfate	**175**	mg/L	40.0	5.1	10		05/13/08 22:14	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0077J**	mg/L	0.020	0.0060	1		05/20/08 10:04	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**2.8**	mg/L	1.0	0.50	1		05/21/08 14:23	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		05/14/08 17:33		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**20.2**	mg/L	2.0	1.4	1		05/28/08 15:48	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.6**	mg/L	2.0	1.4	1		06/02/08 17:42		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 175' **Lab ID: 403628012** Collected: 05/08/08 11:30 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.476J**	ng/L	0.50	0.16	1	05/19/08 11:00	05/20/08 15:07	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/14/08 11:23	05/30/08 20:20	7429-90-5	
Antimony	**39.5**	ug/L	1.0	0.10	1	05/14/08 11:23	05/30/08 03:38	7440-36-0	
Arsenic	**0.46J**	ug/L	1.0	0.093	1	05/14/08 11:23	05/30/08 03:38	7440-38-2	B
Barium	**11.2**	ug/L	1.0	0.072	1	05/14/08 11:23	05/30/08 03:38	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/14/08 11:23	05/30/08 03:38	7440-41-7	
Boron	**154**	ug/L	10.0	1.1	1	05/14/08 11:23	05/30/08 03:38	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/14/08 11:23	05/30/08 03:38	7440-43-9	
Calcium	**56800**	ug/L	5000	100	10	05/14/08 11:23	05/30/08 20:02	7440-70-2	
Chromium	**1.7**	ug/L	1.0	0.43	1	05/14/08 11:23	05/30/08 03:38	7440-47-3	
Cobalt	**23.1**	ug/L	1.0	0.059	1	05/14/08 11:23	05/30/08 20:20	7440-48-4	
Copper	**3.3**	ug/L	1.0	0.12	1	05/14/08 11:23	05/30/08 03:38	7440-50-8	
Iron	**151**	ug/L	50.0	2.9	1	05/14/08 11:23	05/30/08 20:20	7439-89-6	
Lead	**0.050J**	ug/L	1.0	0.044	1	05/14/08 11:23	05/30/08 03:38	7439-92-1	B
Lithium	**3.8**	ug/L	1.0	0.085	1	05/14/08 11:23	06/03/08 18:29	7439-93-2	
Magnesium	**31200**	ug/L	5000	526	10	05/14/08 11:23	05/30/08 20:02	7439-95-4	
Manganese	**2520**	ug/L	1.0	0.080	1	05/14/08 11:23	05/30/08 20:20	7439-96-5	
Molybdenum	**63.0**	ug/L	10.0	0.11	1	05/14/08 11:23	05/30/08 03:38	7439-98-7	
Nickel	**286**	ug/L	1.0	0.074	1	05/14/08 11:23	05/30/08 03:38	7440-02-0	
Potassium	**21400**	ug/L	5000	62.1	10	05/14/08 11:23	05/30/08 20:02	7440-09-7	
Selenium	**0.48J**	ug/L	1.0	0.15	1	05/14/08 11:23	05/30/08 03:38	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/14/08 11:23	06/03/08 18:29	7440-22-4	
Sodium	**29600**	ug/L	5000	460	10	05/14/08 11:23	05/30/08 03:32	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/14/08 11:23	05/30/08 03:38	7440-28-0	
Total Hardness	**270**	mg/L	50.0	1.5	10	05/14/08 11:23	05/30/08 20:02		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/14/08 11:23	05/30/08 20:20	7440-62-2	
Zinc	**9.0J**	ug/L	10.0	2.1	1	05/14/08 11:23	05/30/08 03:38	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.5**	NTU	1.0	0.44	1		05/09/08 17:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**164**	mg/L	10.0	3.2	1		05/20/08 16:34		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/20/08 16:34		
Alkalinity, Total as CaCO3	**164**	mg/L	10.0	3.2	1		05/20/08 16:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**436**	mg/L	20.0	12.0	1		05/15/08 10:43		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/14/08 12:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Sample: HPL-004 175' **Lab ID: 403628012** Collected: 05/08/08 11:30 Received: 05/09/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/13/08 13:24		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.4**	mg/L	0.40	0.085	1		05/10/08 00:06	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/14/08 04:09	14797-65-0	H5
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**27.7**	mg/L	5.0	1.1	1		05/10/08 00:06	16887-00-6	B
Fluoride	**0.42J**	mg/L	0.50	0.059	1		05/10/08 00:06	16984-48-8	
Sulfate	**180**	mg/L	40.0	5.1	10		05/13/08 22:28	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.011J**	mg/L	0.020	0.0060	1		05/20/08 10:05	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**5.0**	mg/L	1.0	0.50	1		05/21/08 14:24	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		05/14/08 17:33		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**11.5**	mg/L	2.0	1.4	1		05/29/08 07:48	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.9**	mg/L	2.0	1.4	1		06/02/08 17:53		

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: MPRP/1300 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008

METHOD BLANK: 26652
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	<4.4	50.0	
Antimony	ug/L	<0.10	1.0	
Arsenic	ug/L	<0.093	1.0	
Barium	ug/L	0.13J	1.0	
Beryllium	ug/L	<0.070	1.0	
Boron	ug/L	<1.1	10.0	
Cadmium	ug/L	<0.098	1.0	
Calcium	ug/L	102J	500	
Chromium	ug/L	<0.43	1.0	
Cobalt	ug/L	<0.059	1.0	
Copper	ug/L	<0.12	1.0	
Iron	ug/L	25.0J	50.0	
Lead	ug/L	<0.044	1.0	
Lithium	ug/L	<0.085	1.0	
Magnesium	ug/L	<52.6	500	
Manganese	ug/L	0.45J	1.0	
Molybdenum	ug/L	<0.11	10.0	
Nickel	ug/L	<0.074	1.0	
Potassium	ug/L	<6.2	500	
Selenium	ug/L	<0.15	1.0	
Silver	ug/L	<0.11	0.50	
Sodium	ug/L	<46.0	500	
Thallium	ug/L	<0.030	1.0	
Vanadium	ug/L	<0.41	1.0	
Zinc	ug/L	5.4J	10.0	

LABORATORY CONTROL SAMPLE: 26653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9040	90	75-125	
Antimony	ug/L	200	203	102	75-125	
Arsenic	ug/L	200	204	102	75-125	
Barium	ug/L	200	201	101	75-125	
Beryllium	ug/L	200	193	96	75-125	
Boron	ug/L	200	183	92	75-125	
Cadmium	ug/L	200	200	100	75-125	
Calcium	ug/L	10000	10300	103	75-125	
Chromium	ug/L	200	201	101	75-125	
Cobalt	ug/L	200	196	98	75-125	
Copper	ug/L	200	199	100	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

LABORATORY CONTROL SAMPLE: 26653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10400	104	75-125	
Lead	ug/L	200	202	101	75-125	
Lithium	ug/L	200	205	102	75-125	
Magnesium	ug/L	10000	9350	94	75-125	
Manganese	ug/L	200	202	101	75-125	
Molybdenum	ug/L	200	196	98	75-125	
Nickel	ug/L	200	197	99	75-125	
Potassium	ug/L	10000	9450	94	75-125	
Selenium	ug/L	200	203	101	75-125	
Silver	ug/L	100	95.0	95	75-125	
Sodium	ug/L	10000	9210	92	75-125	
Thallium	ug/L	200	195	98	75-125	
Vanadium	ug/L	200	200	100	75-125	
Zinc	ug/L	200	199	99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 26654 26655

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	73.4	10000	10000	9440	8950	94	89	75-125	5	20	
Antimony	ug/L	0.26J	200	200	207	198	104	99	75-125	5	20	
Arsenic	ug/L	0.75J	200	200	208	202	104	100	75-125	3	20	
Barium	ug/L	6.2	200	200	216	204	105	99	75-125	6	20	
Beryllium	ug/L	0.070J	200	200	195	186	98	93	75-125	5	20	
Boron	ug/L	13.5	200	200	196	190	91	88	75-125	3	20	
Cadmium	ug/L	<0.098	200	200	210	199	105	100	75-125	5	20	
Calcium	ug/L	5850	10000	10000	16600	15600	108	98	75-125	6	20	
Chromium	ug/L	0.51J	200	200	208	196	104	98	75-125	6	20	
Cobalt	ug/L	0.17J	200	200	202	192	101	96	75-125	5	20	
Copper	ug/L	0.26J	200	200	204	196	102	98	75-125	4	20	
Iron	ug/L	874	10000	10000	11400	10900	106	100	75-125	5	20	
Lead	ug/L	0.27J	200	200	209	203	104	101	75-125	3	20	
Lithium	ug/L	0.70J	200	200	201	200	100	100	75-125	.4	20	
Magnesium	ug/L	2300	10000	10000	11800	11300	95	90	75-125	5	20	
Manganese	ug/L	28.1	200	200	240	226	106	99	75-125	6	20	
Molybdenum	ug/L	0.66J	200	200	207	196	103	98	75-125	5	20	
Nickel	ug/L	1.0	200	200	205	195	102	97	75-125	5	20	
Potassium	ug/L	991	10000	10000	10800	10300	98	93	75-125	4	20	
Selenium	ug/L	0.81J	200	200	203	204	101	102	75-125	.8	20	
Silver	ug/L	<0.11	100	100	97.4	93.3	97	93	75-125	4	20	
Sodium	ug/L	6260	10000	10000	15800	14900	95	87	75-125	6	20	
Thallium	ug/L	0.050J	200	200	202	198	101	99	75-125	2	20	
Vanadium	ug/L	<0.41	200	200	207	196	103	98	75-125	5	20	
Zinc	ug/L	5.6J	200	200	203	195	99	95	75-125	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WET/1439 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 26925
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 26926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	534	534	100		

SAMPLE DUPLICATE: 26927

Parameter	Units	403628002 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	3.7	3.0	20	5	R1

SAMPLE DUPLICATE: 26928

Parameter	Units	403628012 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	1.5	1.5	2	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WETA/1482 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 27010

Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 27011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.7	106	90-110	
Nitrite as N	mg/L	.8	0.77	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27012 27013

Parameter	Units	403628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	2.0	1.6	1.6	3.8	3.8	110	111	90-110	.3	20	M0
Nitrite as N	mg/L	<0.036	.8	.8	0.75	0.74	94	92	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27014 27015

Parameter	Units	403628003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	2.1	1.6	1.6	3.7	3.8	99	108	90-110	4	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.76	0.73	95	91	90-110	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WETA/1483 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 27022

Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	1.9J	5.0	B
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	<0.51	4.0	

LABORATORY CONTROL SAMPLE: 27023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.1	105	90-110	
Fluoride	mg/L	2	2.2	108	90-110	
Sulfate	mg/L	16	16.8	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27024 27025

Parameter	Units	403628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.2	20	20	33.9	33.8	108	108	90-110	.2	20	
Fluoride	mg/L	0.32J	2	2	2.2	2.2	92	92	90-110	0	20	
Sulfate	mg/L	134	80	80	219	215	106	102	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27026 27027

Parameter	Units	403628003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.0	20	20	33.4	34.2	102	106	90-110	3	20	
Fluoride	mg/L	0.38J	2	2	2.1	2.2	86	90	90-110	3	20	M0
Sulfate	mg/L	129	80	80	219	220	112	113	90-110	.5	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WET/1443 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 27359
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE & LCSD: 27360 27361

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	40	34.0	36.4	85	91	80-120	7	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WET/1451 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 27847
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 27848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	223	192	86	80-120	

SAMPLE DUPLICATE: 27849

Parameter	Units	403540001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	84.0	86.0	2	10	

SAMPLE DUPLICATE: 27850

Parameter	Units	403594003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	28.8	29.5	3	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: MPRP/1313
QC Batch Method: EPA 3020
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 403628012

METHOD BLANK: 27916
Associated Lab Samples: 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	<4.4	50.0	
Antimony	ug/L	0.12J	1.0	
Arsenic	ug/L	0.27J	1.0	
Barium	ug/L	0.31J	1.0	
Beryllium	ug/L	<0.070	1.0	
Boron	ug/L	<1.1	10.0	
Cadmium	ug/L	<0.098	1.0	
Calcium	ug/L	<10.0	500	
Chromium	ug/L	<0.43	1.0	
Cobalt	ug/L	<0.059	1.0	
Copper	ug/L	<0.12	1.0	
Iron	ug/L	<2.9	50.0	
Lead	ug/L	0.080J	1.0	
Lithium	ug/L	0.11J	1.0	
Magnesium	ug/L	<52.6	500	
Manganese	ug/L	<0.080	1.0	
Molybdenum	ug/L	<0.11	10.0	
Nickel	ug/L	0.61J	1.0	
Potassium	ug/L	<6.2	500	
Selenium	ug/L	<0.15	1.0	
Silver	ug/L	<0.11	0.50	
Sodium	ug/L	<46.0	500	
Thallium	ug/L	0.18J	1.0	
Total Hardness	mg/L	<0.15	5.0	
Vanadium	ug/L	<0.41	1.0	
Zinc	ug/L	3.1J	10.0	

LABORATORY CONTROL SAMPLE: 27917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10600	106	75-125	
Antimony	ug/L	200	201	101	75-125	
Arsenic	ug/L	200	197	99	75-125	
Barium	ug/L	200	189	94	75-125	
Beryllium	ug/L	200	198	99	75-125	
Boron	ug/L	200	180	90	75-125	
Cadmium	ug/L	200	194	97	75-125	
Calcium	ug/L	10000	10900	109	75-125	
Chromium	ug/L	200	171	86	75-125	
Cobalt	ug/L	200	209	105	75-125	
Copper	ug/L	200	192	96	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

LABORATORY CONTROL SAMPLE: 27917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10700	107	75-125	
Lead	ug/L	200	193	97	75-125	
Lithium	ug/L	200	204	102	75-125	
Magnesium	ug/L	10000	10700	107	75-125	
Manganese	ug/L	200	214	107	75-125	
Molybdenum	ug/L	200	188	94	75-125	
Nickel	ug/L	200	196	98	75-125	
Potassium	ug/L	10000	10800	108	75-125	
Selenium	ug/L	200	197	99	75-125	
Silver	ug/L	100	94.2	94	75-125	
Sodium	ug/L	10000	10600	106	75-125	
Thallium	ug/L	200	195	98	75-125	
Total Hardness	mg/L		71.2			
Vanadium	ug/L	200	211	105	75-125	
Zinc	ug/L	200	198	99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27918 27919

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	31.7J	10000	10000	10100	10500	101	105	75-125	4	20	
Antimony	ug/L	0.24J	200	200	203	207	101	103	75-125	2	20	
Arsenic	ug/L	0.85J	200	200	199	201	99	100	75-125	1	20	
Barium	ug/L	3.9	200	200	194	198	95	97	75-125	2	20	
Beryllium	ug/L	<0.070	200	200	200	200	100	100	75-125	.5	20	
Boron	ug/L	13.2	200	200	197	200	92	93	75-125	2	20	
Cadmium	ug/L	<0.098	200	200	193	196	97	98	75-125	2	20	
Calcium	ug/L	7380	10000	10000	18600	19000	112	117	75-125	2	20	
Chromium	ug/L	0.88J	200	200	177	175	88	87	75-125	1	20	
Cobalt	ug/L	0.21J	200	200	203	206	102	103	75-125	1	20	
Copper	ug/L	0.36J	200	200	193	196	96	98	75-125	1	20	
Iron	ug/L	796	10000	10000	11400	11500	106	107	75-125	.5	20	
Lead	ug/L	0.27J	200	200	196	199	98	99	75-125	1	20	
Lithium	ug/L	0.96J	200	200	200	200	99	100	75-125	.4	20	
Magnesium	ug/L	2950	10000	10000	13600	14100	107	111	75-125	3	20	
Manganese	ug/L	278	200	200	506	516	114	119	75-125	2	20	
Molybdenum	ug/L	0.78J	200	200	193	196	96	98	75-125	2	20	
Nickel	ug/L	0.82J	200	200	196	198	98	99	75-125	.9	20	
Potassium	ug/L	988	10000	10000	11600	11800	106	109	75-125	2	20	
Selenium	ug/L	0.62J	200	200	196	194	98	97	75-125	1	20	
Silver	ug/L	0.15J	100	100	89.0	95.4	89	95	75-125	7	20	
Sodium	ug/L	915	10000	10000	11300	11600	104	106	75-125	2	20	
Thallium	ug/L	0.090J	200	200	197	201	99	101	75-125	2	20	
Total Hardness	mg/L	30.6			102	105				3	20	
Vanadium	ug/L	<0.41	200	200	208	210	104	105	75-125	1	20	
Zinc	ug/L	5.0J	200	200	193	196	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WETA/1510 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 28220
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 28221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	491	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28222 28223

Parameter	Units	403628010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	<11.3	526	526	543	552	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28224 28225

Parameter	Units	403650004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	13.6J	526	526	547	550	101	102	90-110	.4	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WET/1459 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 28473
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	18.0J	20.0	

LABORATORY CONTROL SAMPLE: 28474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1070	1080	101	80-120	

SAMPLE DUPLICATE: 28475

Parameter	Units	403628001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	28.0	30.0	7	10	

SAMPLE DUPLICATE: 28476

Parameter	Units	403809001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3550	3530	.5	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WET/1470 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011

METHOD BLANK: 29451

Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 29452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 29453 29454

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	33.3	500	500	528	535	99	100	80-120	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WETA/1539 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 30150
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 30151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30152 30153

Parameter	Units	403628009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.10	100	100	90-110	.4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30154 30155

Parameter	Units	403781001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0065J	.1	.1	0.11	0.11	101	103	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: CVFS/1080 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 30843
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 30844
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 30845
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 30846 30847

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.08	5.19	102	104	79-121	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30848 30849

Parameter	Units	403603003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	3.24	10	10	13.4	14.4	102	112	75-125	7	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30850 30851

Parameter	Units	403620002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	0.193J	10	10	10.6	12.1	104	119	75-125	13	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WET/1494 | Analysis Method: SM 2320B
QC Batch Method: SM 2320B | Analysis Description: 2320B Alkalinity
Associated Lab Samples: 403628012

METHOD BLANK: 30876
Associated Lab Samples: 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 30877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	488	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30878 30879

Parameter	Units	403729001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	564	500	500	1070	1070	102	101	80-120	.2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WETA/1556 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008

METHOD BLANK: 30960
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 30961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30962 30963

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.2	10.3	100	100	90-110	.8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30964 30965

Parameter	Units	403628008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	11.1	10.7	111	106	90-110	4	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WETA/1557 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 30973
Associated Lab Samples: 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 30974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30975 30976

Parameter	Units	403697002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.73J	10	10	11.8	11.5	111	108	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30977 30978

Parameter	Units	404082001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.5	10	10	11.2	12.0	97	105	90-110	7	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WETA/1602 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 33106
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	98.1	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33110 33111

Parameter	Units	403641001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	20.1	100	100	138	139	118	119	80-120	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33631 33632

Parameter	Units	403628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	14.9	100	100	107	109	92	94	80-120	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

QC Batch: WETA/1609 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

METHOD BLANK: 33300

Associated Lab Samples: 403628001, 403628002, 403628003, 403628004, 403628005, 403628006, 403628007, 403628008, 403628009, 403628010, 403628011, 403628012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	101	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33302 33303

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	7.3	100	100	113	110	106	103	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33640 33641

Parameter	Units	403628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.3	100	100	106	105	104	103	80-120	.5	20	

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QUALIFIERS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: WET/1443

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: ICPM/1106

[1] Internal standard limits of 30-140% were used. All QC is within acceptable limits.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

M0 Matrix spike recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403628001	FBK-004	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628002	DUP-004	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628003	HPL-003 3'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628004	HPL-003 15'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628005	HPL-003 60'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628006	HPL-003 120'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628007	HPL-003 175'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628008	HPL-004 3'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628009	HPL-004 15'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628010	HPL-004 60'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628011	HPL-004 120'	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403628001	FBK-004	SM 2130B	WET/1439		
403628002	DUP-004	SM 2130B	WET/1439		
403628003	HPL-003 3'	SM 2130B	WET/1439		
403628004	HPL-003 15'	SM 2130B	WET/1439		
403628005	HPL-003 60'	SM 2130B	WET/1439		
403628006	HPL-003 120'	SM 2130B	WET/1439		
403628007	HPL-003 175'	SM 2130B	WET/1439		
403628008	HPL-004 3'	SM 2130B	WET/1439		
403628009	HPL-004 15'	SM 2130B	WET/1439		
403628010	HPL-004 60'	SM 2130B	WET/1439		
403628011	HPL-004 120'	SM 2130B	WET/1439		
403628012	HPL-004 175'	SM 2130B	WET/1439		
403628001	FBK-004	EPA 300.0	WETA/1482		
403628002	DUP-004	EPA 300.0	WETA/1482		
403628003	HPL-003 3'	EPA 300.0	WETA/1482		
403628004	HPL-003 15'	EPA 300.0	WETA/1482		
403628005	HPL-003 60'	EPA 300.0	WETA/1482		
403628006	HPL-003 120'	EPA 300.0	WETA/1482		
403628007	HPL-003 175'	EPA 300.0	WETA/1482		
403628008	HPL-004 3'	EPA 300.0	WETA/1482		
403628009	HPL-004 15'	EPA 300.0	WETA/1482		
403628010	HPL-004 60'	EPA 300.0	WETA/1482		
403628011	HPL-004 120'	EPA 300.0	WETA/1482		
403628012	HPL-004 175'	EPA 300.0	WETA/1482		
403628001	FBK-004	EPA 300.0	WETA/1483		
403628002	DUP-004	EPA 300.0	WETA/1483		
403628003	HPL-003 3'	EPA 300.0	WETA/1483		
403628004	HPL-003 15'	EPA 300.0	WETA/1483		
403628005	HPL-003 60'	EPA 300.0	WETA/1483		
403628006	HPL-003 120'	EPA 300.0	WETA/1483		
403628007	HPL-003 175'	EPA 300.0	WETA/1483		
403628008	HPL-004 3'	EPA 300.0	WETA/1483		
403628009	HPL-004 15'	EPA 300.0	WETA/1483		
403628010	HPL-004 60'	EPA 300.0	WETA/1483		
403628011	HPL-004 120'	EPA 300.0	WETA/1483		
403628012	HPL-004 175'	EPA 300.0	WETA/1483		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403628001	FBK-004	SM 4500-S F (2000)	WET/1443		
403628002	DUP-004	SM 4500-S F (2000)	WET/1443		
403628003	HPL-003 3'	SM 4500-S F (2000)	WET/1443		
403628004	HPL-003 15'	SM 4500-S F (2000)	WET/1443		
403628005	HPL-003 60'	SM 4500-S F (2000)	WET/1443		
403628006	HPL-003 120'	SM 4500-S F (2000)	WET/1443		
403628007	HPL-003 175'	SM 4500-S F (2000)	WET/1443		
403628008	HPL-004 3'	SM 4500-S F (2000)	WET/1443		
403628009	HPL-004 15'	SM 4500-S F (2000)	WET/1443		
403628010	HPL-004 60'	SM 4500-S F (2000)	WET/1443		
403628011	HPL-004 120'	SM 4500-S F (2000)	WET/1443		
403628012	HPL-004 175'	SM 4500-S F (2000)	WET/1443		
403628001	FBK-004	SM 2540D	WET/1451		
403628002	DUP-004	SM 2540D	WET/1451		
403628003	HPL-003 3'	SM 2540D	WET/1451		
403628004	HPL-003 15'	SM 2540D	WET/1451		
403628005	HPL-003 60'	SM 2540D	WET/1451		
403628006	HPL-003 120'	SM 2540D	WET/1451		
403628007	HPL-003 175'	SM 2540D	WET/1451		
403628008	HPL-004 3'	SM 2540D	WET/1451		
403628009	HPL-004 15'	SM 2540D	WET/1451		
403628010	HPL-004 60'	SM 2540D	WET/1451		
403628011	HPL-004 120'	SM 2540D	WET/1451		
403628012	HPL-004 175'	SM 2540D	WET/1451		
403628012	HPL-004 175'	EPA 3020	MPRP/1313	EPA 6020	ICPM/1106
403628001	FBK-004	EPA 410.4	WETA/1510		
403628002	DUP-004	EPA 410.4	WETA/1510		
403628003	HPL-003 3'	EPA 410.4	WETA/1510		
403628004	HPL-003 15'	EPA 410.4	WETA/1510		
403628005	HPL-003 60'	EPA 410.4	WETA/1510		
403628006	HPL-003 120'	EPA 410.4	WETA/1510		
403628007	HPL-003 175'	EPA 410.4	WETA/1510		
403628008	HPL-004 3'	EPA 410.4	WETA/1510		
403628009	HPL-004 15'	EPA 410.4	WETA/1510		
403628010	HPL-004 60'	EPA 410.4	WETA/1510		
403628011	HPL-004 120'	EPA 410.4	WETA/1510		
403628012	HPL-004 175'	EPA 410.4	WETA/1510		
403628001	FBK-004	SM 2540C	WET/1459		
403628002	DUP-004	SM 2540C	WET/1459		
403628003	HPL-003 3'	SM 2540C	WET/1459		
403628004	HPL-003 15'	SM 2540C	WET/1459		
403628005	HPL-003 60'	SM 2540C	WET/1459		
403628006	HPL-003 120'	SM 2540C	WET/1459		
403628007	HPL-003 175'	SM 2540C	WET/1459		
403628008	HPL-004 3'	SM 2540C	WET/1459		
403628009	HPL-004 15'	SM 2540C	WET/1459		
403628010	HPL-004 60'	SM 2540C	WET/1459		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403628011	HPL-004 120'	SM 2540C	WET/1459		
403628012	HPL-004 175'	SM 2540C	WET/1459		
403628001	FBK-004	SM 2320B	WET/1470		
403628002	DUP-004	SM 2320B	WET/1470		
403628003	HPL-003 3'	SM 2320B	WET/1470		
403628004	HPL-003 15'	SM 2320B	WET/1470		
403628005	HPL-003 60'	SM 2320B	WET/1470		
403628006	HPL-003 120'	SM 2320B	WET/1470		
403628007	HPL-003 175'	SM 2320B	WET/1470		
403628008	HPL-004 3'	SM 2320B	WET/1470		
403628009	HPL-004 15'	SM 2320B	WET/1470		
403628010	HPL-004 60'	SM 2320B	WET/1470		
403628011	HPL-004 120'	SM 2320B	WET/1470		
403628001	FBK-004	EPA 335.4	WETA/1539		
403628002	DUP-004	EPA 335.4	WETA/1539		
403628003	HPL-003 3'	EPA 335.4	WETA/1539		
403628004	HPL-003 15'	EPA 335.4	WETA/1539		
403628005	HPL-003 60'	EPA 335.4	WETA/1539		
403628006	HPL-003 120'	EPA 335.4	WETA/1539		
403628007	HPL-003 175'	EPA 335.4	WETA/1539		
403628008	HPL-004 3'	EPA 335.4	WETA/1539		
403628009	HPL-004 15'	EPA 335.4	WETA/1539		
403628010	HPL-004 60'	EPA 335.4	WETA/1539		
403628011	HPL-004 120'	EPA 335.4	WETA/1539		
403628012	HPL-004 175'	EPA 335.4	WETA/1539		
403628001	FBK-004	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628002	DUP-004	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628003	HPL-003 3'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628004	HPL-003 15'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628005	HPL-003 60'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628006	HPL-003 120'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628007	HPL-003 175'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628008	HPL-004 3'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628009	HPL-004 15'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628010	HPL-004 60'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628011	HPL-004 120'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628012	HPL-004 175'	EPA 1631E	CVFS/1080	EPA 1631E	CVFS/1081
403628012	HPL-004 175'	SM 2320B	WET/1494		
403628001	FBK-004	EPA 350.1	WETA/1556		
403628002	DUP-004	EPA 350.1	WETA/1556		
403628003	HPL-003 3'	EPA 350.1	WETA/1556		
403628004	HPL-003 15'	EPA 350.1	WETA/1556		
403628005	HPL-003 60'	EPA 350.1	WETA/1556		
403628006	HPL-003 120'	EPA 350.1	WETA/1556		
403628007	HPL-003 175'	EPA 350.1	WETA/1556		
403628008	HPL-004 3'	EPA 350.1	WETA/1556		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403628009	HPL-004 15'	EPA 350.1	WETA/1557		
403628010	HPL-004 60'	EPA 350.1	WETA/1557		
403628011	HPL-004 120'	EPA 350.1	WETA/1557		
403628012	HPL-004 175'	EPA 350.1	WETA/1557		
403628001	FBK-004	SM 5310C	WETA/1602		
403628002	DUP-004	SM 5310C	WETA/1602		
403628003	HPL-003 3'	SM 5310C	WETA/1602		
403628004	HPL-003 15'	SM 5310C	WETA/1602		
403628005	HPL-003 60'	SM 5310C	WETA/1602		
403628006	HPL-003 120'	SM 5310C	WETA/1602		
403628007	HPL-003 175'	SM 5310C	WETA/1602		
403628008	HPL-004 3'	SM 5310C	WETA/1602		
403628009	HPL-004 15'	SM 5310C	WETA/1602		
403628010	HPL-004 60'	SM 5310C	WETA/1602		
403628011	HPL-004 120'	SM 5310C	WETA/1602		
403628012	HPL-004 175'	SM 5310C	WETA/1602		
403628001	FBK-004	SM 5310C	WETA/1609		
403628002	DUP-004	SM 5310C	WETA/1609		
403628003	HPL-003 3'	SM 5310C	WETA/1609		
403628004	HPL-003 15'	SM 5310C	WETA/1609		
403628005	HPL-003 60'	SM 5310C	WETA/1609		
403628006	HPL-003 120'	SM 5310C	WETA/1609		
403628007	HPL-003 175'	SM 5310C	WETA/1609		
403628008	HPL-004 3'	SM 5310C	WETA/1609		
403628009	HPL-004 15'	SM 5310C	WETA/1609		
403628010	HPL-004 60'	SM 5310C	WETA/1609		
403628011	HPL-004 120'	SM 5310C	WETA/1609		
403628012	HPL-004 175'	SM 5310C	WETA/1609		

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Waltz Mill Radiochemistry Lab
P.O. Box 158
Bldg. G, M/S 62
Madison, PA 15663
Phone: 724.722.5214
Fax: 724.722.5208

May 28, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
403628 Foth & Van Dyke
Pace Project No. 08-2097

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on May 13, 2008 and logged in for analysis on May 14, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:tew

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2097
CLIENT: 403628 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0805-0539	FBK-004 (403628001)	0805-0540	DUP-004 (403628002)
0805-0541	HPL-003 3' (40362800	0805-0542	HPL-003 15' (4036280
0805-0543	HPL-003 60' (4036280	0805-0544	HPL-003 120' (403628
0805-0545	HPL-003 175' (403628	0805-0546	HPL-004 3' (40362800
0805-0547	HPL-004 15' (4036280	0805-0548	HPL-004 60' (4036280
0805-0549	HPL-004 120' (403628	0805-0550	HPL-004 175' (403628

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2097
Groundwater Characterization; 403628 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0805-0539	FBK-004 (403628001)	(5/8/08)	05/20/08	0.089 ± 0.474	(1.29)
0805-0540	DUP-004 (403628002)	(5/8/08)	05/20/08	1.79 ± 1.59	(2.90)
0805-0541	HPL-003 3' (403628003)	(5/8/08)	05/20/08	1.40 ± 1.41	(2.59)
0805-0542	HPL-003 15' (403628004)	(5/8/08)	05/20/08	2.71 ± 1.85	(2.76)
0805-0543	HPL-003 60' (403628005)	(5/8/08)	05/23/08	2.58 ± 1.75	(2.43)
0805-0544	HPL-003 120' (403628006)	(5/8/08)	05/23/08	1.85 ± 1.57	(2.88)
0805-0545	HPL-003 175' (403628007)	(5/8/08)	05/23/08	4.38 ± 2.10	(2.58)
0805-0546	HPL-004 3' (403628008)	(5/8/08)	05/23/08	2.28 ± 1.74	(2.78)
0805-0547	HPL-004 15' (403628009)	(5/8/08)	05/23/08	2.45 ± 1.76	(2.77)
0805-0548	HPL-004 60' (403628010)	(5/8/08)	05/23/08	1.55 ± 1.46	(2.58)
0805-0549	HPL-004 120' (403628011)	(5/8/08)	05/23/08	1.73 ± 1.63	(2.87)
0805-0550	HPL-004 175' (403628012)	(5/8/08)	05/23/08	1.57 ± 1.64	(2.89)
0805-0551	Method Blank	(5/13/08)	05/23/08	-0.060 ± 0.422	(1.35)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0805-0539	FBK-004 (403628001)	(5/8/08)	05/20/08	0.468 ± 0.782	(1.76)
0805-0540	DUP-004 (403628002)	(5/8/08)	05/20/08	7.42 ± 1.99	(1.70)
0805-0541	HPL-003 3' (403628003)	(5/8/08)	05/20/08	9.52 ± 2.44	(1.91)
0805-0542	HPL-003 15' (403628004)	(5/8/08)	05/20/08	8.60 ± 2.28	(1.85)
0805-0543	HPL-003 60' (403628005)	(5/8/08)	05/23/08	7.19 ± 2.01	(1.82)
0805-0544	HPL-003 120' (403628006)	(5/8/08)	05/23/08	15.7 ± 3.30	(1.39)
0805-0545	HPL-003 175' (403628007)	(5/8/08)	05/23/08	20.2 ± 4.14	(1.48)
0805-0546	HPL-004 3' (403628008)	(5/8/08)	05/23/08	7.57 ± 2.09	(1.85)
0805-0547	HPL-004 15' (403628009)	(5/8/08)	05/23/08	7.05 ± 2.02	(2.03)
0805-0548	HPL-004 60' (403628010)	(5/8/08)	05/23/08	6.79 ± 1.91	(1.68)
0805-0549	HPL-004 120' (403628011)	(5/8/08)	05/23/08	16.5 ± 3.70	(1.78)
0805-0550	HPL-004 175' (403628012)	(5/8/08)	05/23/08	15.9 ± 3.62	(1.87)
0805-0551	Method Blank	(5/13/08)	05/23/08	0.716 ± 0.816	(1.75)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 5/9	Sending Project No:	403628
Receiving Region:	Pace-PA	Receiving Project No:	08-2097
State of Sample Origin:	MI	Date IRWO / Sub-COC Prepared:	5/12/08
Sending Project Manager:	Tod Noltemeyer / Alee Her	REQUESTED COMPLETION DATE:	6/2/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL. NEED CUSTODIAL FILE ALSO		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	12	$ 60.00	$ 720.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 720.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 720.00	$ 576.00	$ 144.00
Total			$ 576.00	$ 144.00

P = Poly
G = Glass
AG = Amber Glass

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Sub-COC

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				

Client Sample ID	Pace Lab Number	Collect Date/Time	Matrix	Method	Analyses: Gross Alpha/Beta 900				
FBK-004 0805-0539	403628001	05/08/08	W		X				
DUP-004 0540	403628002	05/08/08	W		X				
HPL-003 3' 0541	403628003	05/08/08	W		X				
HPL-003 15' 0542	403628004	05/08/08	W		X				
HPL-003 60' 0543	403628005	05/08/08	W		X				
HPL-003 120' 0544	403628006	05/08/08	W		X				
HPL-003 175' 0545	403628007	05/08/08	W		X				
HPL-004 3' 0546	403628008	05/08/08	W		X				
HPL-004 15' 0547	403628009	05/08/08	W		X				
HPL-004 60' 0548	403628010	05/08/08	W		X				
HPL-004 120' 0549	403628011	05/08/08	W		X				
HPL-004 175' 0550	403628012	05/08/08	W		X				
MB - 0551									

Relinquished By: [signature] Date/Time: 5-12-08 1600 Received By: [signature] Date/Time:

Relinquished By: Date/Time: Received By: [signature] Date/Time: 5/13/08 1000

Receipt Temperature =

Sample Condition Upon Receipt

Pace Analytical

Client Name: NORTH JACKSON Project # 403628

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Poly

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: G 5/9/08

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed G1 / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn N_4 OH	Analysis Test Y/N	AlK2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			N	N	N	N	N	N	N	Y	N	N	N	N		
1	FBK-004 001	WT	/			5/8/08	1500		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
2	DUP-004 002		G				—		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
3	HPL-003 3' 003						1340		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
4	HPL-003 15' 004						1420		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
5	HPL-003 60' 005						1445		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
6	HPL-003 120' 006						1515		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
7	HPL-003 175' 007						1545		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
8	HPL-004 3' 008						0900		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
9	HPL-004 15' 009						1000		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
10	HPL-004 60' 010						1030		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
11	HPL-004 120' 011						1100		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
12	HPL-004 175' 012						1130		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					

VMW
403628

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Chris Cartway / NJC	5/8/08	1830			
	FEDEX	5/9/08	1010		5/9/08	1010

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Cartway Richard R Eagle

SIGNATURE of SAMPLER: Richard R Eagle DATE Signed (MM/DD/YYY): 5/8/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Batch No. 403549

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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(920)469-2436

SAMPLE SUMMARY

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
403549001	**LKL-001**	Water	05/07/08 10:45	05/08/08 09:40
403549002	**LKL-002**	Water	05/07/08 10:15	05/08/08 09:40
403549003	**FBK-003**	Water	05/07/08 09:30	05/08/08 09:40
403549004	**DUP-003**	Water	05/07/08 00:00	05/08/08 09:40
403549005	**HMP-009**	Water	05/07/08 13:00	05/08/08 09:40

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
403549001	LKL-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403549002	LKL-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403549003	FBK-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403549004	DUP-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403549005	HMP-009	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Internal standard limits of 30-140% were used. All QC is within acceptable limits.
- QC Batch: ICPM / 1106

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1425

R1: RPD value was outside control limits.

- DUP (Lab ID: 26044)
  - Total Dissolved Solids

Additional Comments:

Batch Comments:

- QC Batch: WET / 1425

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1442

R1: RPD value was outside control limits.

- DUP (Lab ID: 27031)
  - Total Suspended Solids

Additional Comments:

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Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/1432

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Green Bay, WI 54302
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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Green Bay, WI 54302
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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1513

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403549001,403700007

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 28393)
  - Cyanide
- MS (Lab ID: 28395)
  - Cyanide
- MSD (Lab ID: 28396)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1556

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403549001,403628008

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 30964)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
5 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: LKL-001 **Lab ID: 403549001** Collected: 05/07/08 10:45 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.09**	ng/L	0.50	0.16	1	05/13/08 09:30	05/19/08 10:22	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**31.7J**	ug/L	50.0	4.4	1	05/14/08 11:23	05/30/08 19:03	7429-90-5	
Antimony	**0.24J**	ug/L	1.0	0.10	1	05/14/08 11:23	05/30/08 02:25	7440-36-0	B
Arsenic	**0.85J**	ug/L	1.0	0.093	1	05/14/08 11:23	05/30/08 02:25	7440-38-2	B
Barium	**3.9**	ug/L	1.0	0.072	1	05/14/08 11:23	05/30/08 02:25	7440-39-3	B
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/14/08 11:23	05/30/08 02:25	7440-41-7	
Boron	**13.2**	ug/L	10.0	1.1	1	05/14/08 11:23	05/21/08 04:11	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/14/08 11:23	05/30/08 02:25	7440-43-9	
Calcium	**7380**	ug/L	500	10.0	1	05/14/08 11:23	05/30/08 19:03	7440-70-2	
Chromium	**0.88J**	ug/L	1.0	0.43	1	05/14/08 11:23	05/30/08 02:25	7440-47-3	
Cobalt	**0.21J**	ug/L	1.0	0.059	1	05/14/08 11:23	05/30/08 19:03	7440-48-4	
Copper	**0.36J**	ug/L	1.0	0.12	1	05/14/08 11:23	05/30/08 02:25	7440-50-8	
Iron	**796**	ug/L	50.0	2.9	1	05/14/08 11:23	05/30/08 19:03	7439-89-6	
Lead	**0.27J**	ug/L	1.0	0.044	1	05/14/08 11:23	05/30/08 02:25	7439-92-1	B
Lithium	**0.96J**	ug/L	1.0	0.085	1	05/14/08 11:23	06/03/08 17:16	7439-93-2	
Magnesium	**2950**	ug/L	500	52.6	1	05/14/08 11:23	05/30/08 19:03	7439-95-4	
Manganese	**278**	ug/L	1.0	0.080	1	05/14/08 11:23	05/30/08 19:03	7439-96-5	
Molybdenum	**0.78J**	ug/L	10.0	0.11	1	05/14/08 11:23	05/30/08 02:25	7439-98-7	
Nickel	**0.82J**	ug/L	1.0	0.074	1	05/14/08 11:23	05/30/08 02:25	7440-02-0	B
Potassium	**988**	ug/L	500	6.2	1	05/14/08 11:23	05/30/08 19:03	7440-09-7	
Selenium	**0.62J**	ug/L	1.0	0.15	1	05/14/08 11:23	05/30/08 02:25	7782-49-2	
Silver	**0.15J**	ug/L	0.50	0.11	1	05/14/08 11:23	06/04/08 19:41	7440-22-4	
Sodium	**915**	ug/L	500	46.0	1	05/14/08 11:23	05/30/08 19:03	7440-23-5	
Thallium	**0.090J**	ug/L	1.0	0.030	1	05/14/08 11:23	05/30/08 02:25	7440-28-0	B
Total Hardness	**30.6**	mg/L	5.0	0.15	1	05/14/08 11:23	05/30/08 19:03		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/14/08 11:23	05/30/08 19:03	7440-62-2	
Zinc	**5.0J**	ug/L	10.0	2.1	1	05/14/08 11:23	05/21/08 04:11	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.0**	NTU	1.0	0.44	1		05/09/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**33.3**	mg/L	10.0	3.2	1		05/16/08 15:32		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:32		
Alkalinity, Total as CaCO3	**33.3**	mg/L	10.0	3.2	1		05/16/08 15:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**54.0**	mg/L	20.0	12.0	1		05/13/08 11:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.84J**	mg/L	2.1	0.65	1		05/13/08 10:57		R1

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: LKL-001 **Lab ID: 403549001** Collected: 05/07/08 10:45 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.20J**	mg/L	0.40	0.085	1		05/08/08 17:19	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 20:52	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		05/08/08 17:19	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		05/08/08 17:19	16984-48-8	
Sulfate	**3.8J**	mg/L	4.0	0.51	1		05/08/08 17:19	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 15:04	57-12-5	M0
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:00	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**30.8J**	mg/L	50.0	10.8	1		05/14/08 17:39		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.4**	mg/L	2.0	1.4	1		05/27/08 14:14	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.3**	mg/L	2.0	1.4	1		06/02/08 15:24		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: LKL-002 **Lab ID: 403549002** Collected: 05/07/08 10:15 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.18**	ng/L	0.50	0.16	1	05/13/08 09:30	05/19/08 10:34	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**9.1J**	ug/L	50.0	4.4	1	05/14/08 11:23	05/30/08 19:22	7429-90-5	
Antimony	**0.30J**	ug/L	1.0	0.10	1	05/14/08 11:23	05/30/08 02:55	7440-36-0	B
Arsenic	**0.84J**	ug/L	1.0	0.093	1	05/14/08 11:23	05/30/08 02:55	7440-38-2	B
Barium	**3.9**	ug/L	1.0	0.072	1	05/14/08 11:23	05/30/08 02:55	7440-39-3	B
Beryllium	**0.16J**	ug/L	1.0	0.070	1	05/14/08 11:23	05/30/08 02:55	7440-41-7	
Boron	**14.7**	ug/L	10.0	1.1	1	05/14/08 11:23	05/21/08 04:29	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/14/08 11:23	05/30/08 02:55	7440-43-9	
Calcium	**7780**	ug/L	500	10.0	1	05/14/08 11:23	05/30/08 19:22	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/14/08 11:23	05/30/08 02:55	7440-47-3	
Cobalt	**0.18J**	ug/L	1.0	0.059	1	05/14/08 11:23	05/30/08 19:22	7440-48-4	
Copper	**0.47J**	ug/L	1.0	0.12	1	05/14/08 11:23	05/30/08 02:55	7440-50-8	
Iron	**844**	ug/L	50.0	2.9	1	05/14/08 11:23	05/30/08 19:22	7439-89-6	SD
Lead	**0.23J**	ug/L	1.0	0.044	1	05/14/08 11:23	05/30/08 02:55	7439-92-1	B
Lithium	**1.2**	ug/L	1.0	0.085	1	05/14/08 11:23	06/03/08 17:35	7439-93-2	
Magnesium	**3120**	ug/L	500	52.6	1	05/14/08 11:23	05/30/08 19:22	7439-95-4	
Manganese	**290**	ug/L	1.0	0.080	1	05/14/08 11:23	05/30/08 19:22	7439-96-5	
Molybdenum	**0.86J**	ug/L	10.0	0.11	1	05/14/08 11:23	05/30/08 02:55	7439-98-7	
Nickel	**1.8**	ug/L	1.0	0.074	1	05/14/08 11:23	05/30/08 02:55	7440-02-0	B
Potassium	**1100**	ug/L	500	6.2	1	05/14/08 11:23	05/30/08 19:22	7440-09-7	SD
Selenium	**0.32J**	ug/L	1.0	0.15	1	05/14/08 11:23	05/30/08 02:55	7782-49-2	
Silver	**0.18J**	ug/L	0.50	0.11	1	05/14/08 11:23	06/04/08 20:00	7440-22-4	
Sodium	**811**	ug/L	500	46.0	1	05/14/08 11:23	05/30/08 02:55	7440-23-5	
Thallium	**0.15J**	ug/L	1.0	0.030	1	05/14/08 11:23	05/30/08 02:55	7440-28-0	B
Total Hardness	**32.3**	mg/L	5.0	0.15	1	05/14/08 11:23	05/30/08 19:22		
Vanadium	**0.42J**	ug/L	1.0	0.41	1	05/14/08 11:23	05/30/08 19:22	7440-62-2	
Zinc	**4.5J**	ug/L	10.0	2.1	1	05/14/08 11:23	05/21/08 04:29	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.9**	NTU	1.0	0.44	1		05/09/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**31.1**	mg/L	10.0	3.2	1		05/16/08 15:34		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:34		
Alkalinity, Total as CaCO3	**31.1**	mg/L	10.0	3.2	1		05/16/08 15:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**42.0**	mg/L	20.0	12.0	1		05/13/08 11:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.78J**	mg/L	1.1	0.34	1		05/13/08 10:57		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: LKL-002 **Lab ID: 403549002** Collected: 05/07/08 10:15 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.19J**	mg/L	0.40	0.085	1		05/08/08 18:02	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 21:35	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		05/08/08 18:02	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		05/08/08 18:02	16984-48-8	
Sulfate	**4.5**	mg/L	4.0	0.51	1		05/08/08 18:02	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 15:15	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:04	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**28.6J**	mg/L	50.0	10.8	1		05/14/08 17:43		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.4**	mg/L	2.0	1.4	1		05/27/08 14:37	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.5**	mg/L	2.0	1.4	1		06/02/08 15:46		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: FBK-003 **Lab ID: 403549003** Collected: 05/07/08 09:30 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.347J**	ng/L	0.50	0.16	1	05/13/08 09:30	05/19/08 10:20	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/14/08 11:23	05/30/08 18:39	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/14/08 11:23	05/30/08 02:12	7440-36-0	
Arsenic	**0.14J**	ug/L	1.0	0.093	1	05/14/08 11:23	05/30/08 02:12	7440-38-2	B
Barium	**0.35J**	ug/L	1.0	0.072	1	05/14/08 11:23	05/30/08 02:12	7440-39-3	B
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/14/08 11:23	05/21/08 03:59	7440-41-7	
Boron	**1.6J**	ug/L	10.0	1.1	1	05/14/08 11:23	05/21/08 03:59	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/14/08 11:23	05/30/08 02:12	7440-43-9	
Calcium	**114J**	ug/L	500	10.0	1	05/14/08 11:23	05/30/08 18:39	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/14/08 11:23	05/30/08 02:12	7440-47-3	
Cobalt	**<0.059**	ug/L	1.0	0.059	1	05/14/08 11:23	05/30/08 18:39	7440-48-4	
Copper	**0.58J**	ug/L	1.0	0.12	1	05/14/08 11:23	05/30/08 02:12	7440-50-8	
Iron	**<2.9**	ug/L	50.0	2.9	1	05/14/08 11:23	05/30/08 18:39	7439-89-6	
Lead	**0.060J**	ug/L	1.0	0.044	1	05/14/08 11:23	05/30/08 02:12	7439-92-1	B
Lithium	**0.15J**	ug/L	1.0	0.085	1	05/14/08 11:23	06/03/08 17:04	7439-93-2	
Magnesium	**<52.6**	ug/L	500	52.6	1	05/14/08 11:23	05/30/08 18:39	7439-95-4	
Manganese	**7.8**	ug/L	1.0	0.080	1	05/14/08 11:23	05/30/08 18:39	7439-96-5	
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/14/08 11:23	05/30/08 02:12	7439-98-7	
Nickel	**<0.074**	ug/L	1.0	0.074	1	05/14/08 11:23	05/30/08 02:12	7440-02-0	
Potassium	**39.7J**	ug/L	500	6.2	1	05/14/08 11:23	05/30/08 18:39	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/14/08 11:23	05/30/08 02:12	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/14/08 11:23	06/03/08 17:04	7440-22-4	
Sodium	**484J**	ug/L	500	46.0	1	05/14/08 11:23	05/30/08 18:39	7440-23-5	
Thallium	**0.11J**	ug/L	1.0	0.030	1	05/14/08 11:23	05/30/08 02:12	7440-28-0	B
Total Hardness	**0.42J**	mg/L	5.0	0.15	1	05/14/08 11:23	05/30/08 18:39		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/14/08 11:23	05/30/08 18:39	7440-62-2	
Zinc	**4.8J**	ug/L	10.0	2.1	1	05/14/08 11:23	05/21/08 03:59	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		05/09/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:34		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:34		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		05/13/08 11:20		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.33**	mg/L	1.1	0.33	1		05/13/08 10:57		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: FBK-003 **Lab ID: 403549003** Collected: 05/07/08 09:30 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/08/08 18:16	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 21:49	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**<1.1**	mg/L	5.0	1.1	1		05/08/08 18:16	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		05/08/08 18:16	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		05/08/08 18:16	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 15:16	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:05	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		05/14/08 17:43		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		05/27/08 14:43	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		06/02/08 15:55		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: DUP-003 **Lab ID: 403549004** Collected: 05/07/08 00:00 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.11**	ng/L	0.50	0.16	1	05/13/08 09:30	05/19/08 10:34	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**7.9J**	ug/L	50.0	4.4	1	05/14/08 11:23	05/30/08 19:38	7429-90-5	
Antimony	**0.12J**	ug/L	1.0	0.10	1	05/14/08 11:23	05/30/08 03:07	7440-36-0	B
Arsenic	**0.70J**	ug/L	1.0	0.093	1	05/14/08 11:23	05/30/08 03:07	7440-38-2	B
Barium	**4.1**	ug/L	1.0	0.072	1	05/14/08 11:23	05/30/08 03:07	7440-39-3	B
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/14/08 11:23	05/21/08 04:41	7440-41-7	
Boron	**10.7**	ug/L	10.0	1.1	1	05/14/08 11:23	05/21/08 04:41	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/14/08 11:23	05/30/08 03:07	7440-43-9	
Calcium	**7770**	ug/L	500	10.0	1	05/14/08 11:23	05/30/08 19:38	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/14/08 11:23	05/30/08 03:07	7440-47-3	
Cobalt	**0.25J**	ug/L	1.0	0.059	1	05/14/08 11:23	05/30/08 19:38	7440-48-4	
Copper	**0.39J**	ug/L	1.0	0.12	1	05/14/08 11:23	05/30/08 03:07	7440-50-8	
Iron	**826**	ug/L	50.0	2.9	1	05/14/08 11:23	05/30/08 19:38	7439-89-6	
Lead	**0.10J**	ug/L	1.0	0.044	1	05/14/08 11:23	05/30/08 03:07	7439-92-1	B
Lithium	**1.3**	ug/L	1.0	0.085	1	05/14/08 11:23	06/03/08 17:59	7439-93-2	
Magnesium	**3110**	ug/L	500	52.6	1	05/14/08 11:23	05/30/08 19:38	7439-95-4	
Manganese	**285**	ug/L	1.0	0.080	1	05/14/08 11:23	05/30/08 19:38	7439-96-5	
Molybdenum	**0.38J**	ug/L	10.0	0.11	1	05/14/08 11:23	05/30/08 03:07	7439-98-7	
Nickel	**1.9**	ug/L	1.0	0.074	1	05/14/08 11:23	05/30/08 03:07	7440-02-0	B
Potassium	**1040**	ug/L	500	6.2	1	05/14/08 11:23	05/30/08 19:38	7440-09-7	
Selenium	**0.31J**	ug/L	1.0	0.15	1	05/14/08 11:23	05/30/08 03:07	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/14/08 11:23	06/03/08 17:59	7440-22-4	
Sodium	**854**	ug/L	500	46.0	1	05/14/08 11:23	05/30/08 03:07	7440-23-5	
Thallium	**0.040J**	ug/L	1.0	0.030	1	05/14/08 11:23	05/30/08 03:07	7440-28-0	B
Total Hardness	**32.2**	mg/L	5.0	0.15	1	05/14/08 11:23	05/30/08 19:38		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/14/08 11:23	05/30/08 19:38	7440-62-2	
Zinc	**4.2J**	ug/L	10.0	2.1	1	05/14/08 11:23	05/21/08 04:41	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.9**	NTU	1.0	0.44	1		05/09/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**31.1**	mg/L	10.0	3.2	1		05/16/08 15:34		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:34		
Alkalinity, Total as CaCO3	**31.1**	mg/L	10.0	3.2	1		05/16/08 15:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**36.0**	mg/L	20.0	12.0	1		05/13/08 11:20		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.82J**	mg/L	1.2	0.36	1		05/13/08 10:57		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: DUP-003 **Lab ID: 403549004** Collected: 05/07/08 00:00 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.20J**	mg/L	0.40	0.085	1		05/08/08 18:59	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 22:03	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		05/08/08 18:59	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		05/08/08 18:59	16984-48-8	
Sulfate	**3.8J**	mg/L	4.0	0.51	1		05/08/08 18:59	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 15:16	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:06	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**26.4J**	mg/L	50.0	10.8	1		05/14/08 17:43		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.9**	mg/L	2.0	1.4	1		05/27/08 14:51	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.3**	mg/L	2.0	1.4	1		06/02/08 16:06		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: HMP-009 **Lab ID: 403549005** Collected: 05/07/08 13:00 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.668**	ng/L	0.50	0.16	1	05/13/08 09:30	05/19/08 10:46	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**124**	ug/L	50.0	4.4	1	05/14/08 11:23	05/30/08 19:50	7429-90-5	
Antimony	**8.0**	ug/L	1.0	0.10	1	05/14/08 11:23	05/30/08 03:20	7440-36-0	
Arsenic	**0.70J**	ug/L	1.0	0.093	1	05/14/08 11:23	05/30/08 03:20	7440-38-2	B
Barium	**12.7**	ug/L	1.0	0.072	1	05/14/08 11:23	05/30/08 03:20	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/14/08 11:23	05/21/08 05:05	7440-41-7	
Boron	**70.5**	ug/L	10.0	1.1	1	05/14/08 11:23	05/21/08 05:05	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/14/08 11:23	05/30/08 03:20	7440-43-9	
Calcium	**48500**	ug/L	5000	100	10	05/14/08 11:23	05/30/08 19:44	7440-70-2	
Chromium	**0.57J**	ug/L	1.0	0.43	1	05/14/08 11:23	05/30/08 03:20	7440-47-3	
Cobalt	**3.6**	ug/L	1.0	0.059	1	05/14/08 11:23	05/30/08 19:50	7440-48-4	
Copper	**11.0**	ug/L	1.0	0.12	1	05/14/08 11:23	05/30/08 03:20	7440-50-8	
Iron	**510**	ug/L	50.0	2.9	1	05/14/08 11:23	05/30/08 19:50	7439-89-6	
Lead	**0.34J**	ug/L	1.0	0.044	1	05/14/08 11:23	05/30/08 03:20	7439-92-1	B
Lithium	**2.5**	ug/L	1.0	0.085	1	05/14/08 11:23	06/03/08 18:11	7439-93-2	
Magnesium	**22100**	ug/L	5000	526	10	05/14/08 11:23	05/30/08 19:44	7439-95-4	
Manganese	**79.4**	ug/L	1.0	0.080	1	05/14/08 11:23	05/30/08 19:50	7439-96-5	
Molybdenum	**9.6J**	ug/L	10.0	0.11	1	05/14/08 11:23	05/30/08 03:20	7439-98-7	
Nickel	**17.9**	ug/L	1.0	0.074	1	05/14/08 11:23	05/30/08 03:20	7440-02-0	
Potassium	**7830**	ug/L	500	6.2	1	05/14/08 11:23	05/30/08 19:50	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/14/08 11:23	05/30/08 03:20	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/14/08 11:23	06/03/08 18:11	7440-22-4	
Sodium	**10600**	ug/L	500	46.0	1	05/14/08 11:23	05/30/08 03:20	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/14/08 11:23	05/30/08 03:20	7440-28-0	
Total Hardness	**212**	mg/L	50.0	1.5	10	05/14/08 11:23	05/30/08 19:44		
Vanadium	**0.61J**	ug/L	1.0	0.41	1	05/14/08 11:23	05/30/08 19:50	7440-62-2	
Zinc	**5.8J**	ug/L	10.0	2.1	1	05/14/08 11:23	05/21/08 05:05	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.1**	NTU	1.0	0.44	1		05/09/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**97.7**	mg/L	10.0	3.2	1		05/16/08 15:35		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:35		
Alkalinity, Total as CaCO3	**97.7**	mg/L	10.0	3.2	1		05/16/08 15:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**304**	mg/L	20.0	12.0	1		05/13/08 11:21		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**7.9**	mg/L	1.1	0.33	1		05/13/08 10:57		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Sample: HMP-009 **Lab ID: 403549005** Collected: 05/07/08 13:00 Received: 05/08/08 09:40 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.0**	mg/L	0.40	0.085	1		05/08/08 19:13	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 22:17	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.0**	mg/L	5.0	1.1	1		05/08/08 19:13	16887-00-6	
Fluoride	**0.31J**	mg/L	0.50	0.059	1		05/08/08 19:13	16984-48-8	
Sulfate	**133**	mg/L	20.0	2.6	5		05/09/08 18:11	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 15:17	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 14:06	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		05/14/08 17:44		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.4**	mg/L	2.0	1.4	1		05/27/08 14:56	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**12.7**	mg/L	2.0	1.4	1		06/02/08 16:13		

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WETA/1465 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 25649
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 25650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.7	106	90-110	
Nitrite as N	mg/L	.8	0.78	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25651 25652

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.20J	1.6	1.6	1.8	1.7	98	96	90-110	2	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.79	0.77	99	96	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WETA/1466 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 25653
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<1.1	5.0	
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	<0.51	4.0	

LABORATORY CONTROL SAMPLE: 25654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.0	105	90-110	
Fluoride	mg/L	2	2.2	108	90-110	
Sulfate	mg/L	16	16.7	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25655 25656

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.4J	20	20	21.5	21.2	96	94	90-110	2	20	
Fluoride	mg/L	0.25J	2	2	2.2	2.2	98	98	90-110	.9	20	
Sulfate	mg/L	3.8J	16	16	19.3	19.1	97	95	90-110	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WET/1423 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 25661
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 25662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	534	534	100		

SAMPLE DUPLICATE: 25663

Parameter	Units	403549001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	2.0	2.0	.5	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WET/1425 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 26042
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	

LABORATORY CONTROL SAMPLE: 26043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1070	1070	100	80-120	

SAMPLE DUPLICATE: 26044

Parameter	Units	403515008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	32.0	12	10	R1

SAMPLE DUPLICATE: 26045

Parameter	Units	403549001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	54.0	54.0	0	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WET/1432 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 26773
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE & LCSD: 26774 26775

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	37.2	36.0	36.0	97	97	80-120	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WET/1442 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 27028
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 27029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	223	188	84	80-120	

SAMPLE DUPLICATE: 27030

Parameter	Units	403532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5850	6070	4	10	

SAMPLE DUPLICATE: 27031

Parameter	Units	403549001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	0.84J	<0.65	67	10	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: MPRP/1313 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 27916
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	<4.4	50.0	
Antimony	ug/L	0.12J	1.0	
Arsenic	ug/L	0.27J	1.0	
Barium	ug/L	0.31J	1.0	
Beryllium	ug/L	<0.070	1.0	
Boron	ug/L	<1.1	10.0	
Cadmium	ug/L	<0.098	1.0	
Calcium	ug/L	<10.0	500	
Chromium	ug/L	<0.43	1.0	
Cobalt	ug/L	<0.059	1.0	
Copper	ug/L	<0.12	1.0	
Iron	ug/L	<2.9	50.0	
Lead	ug/L	0.080J	1.0	
Lithium	ug/L	0.11J	1.0	
Magnesium	ug/L	<52.6	500	
Manganese	ug/L	<0.080	1.0	
Molybdenum	ug/L	<0.11	10.0	
Nickel	ug/L	0.61J	1.0	
Potassium	ug/L	<6.2	500	
Selenium	ug/L	<0.15	1.0	
Silver	ug/L	<0.11	0.50	
Sodium	ug/L	<46.0	500	
Thallium	ug/L	0.18J	1.0	
Total Hardness	mg/L	<0.15	5.0	
Vanadium	ug/L	<0.41	1.0	
Zinc	ug/L	3.1J	10.0	

LABORATORY CONTROL SAMPLE: 27917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10600	106	75-125	
Antimony	ug/L	200	201	101	75-125	
Arsenic	ug/L	200	197	99	75-125	
Barium	ug/L	200	189	94	75-125	
Beryllium	ug/L	200	198	99	75-125	
Boron	ug/L	200	180	90	75-125	
Cadmium	ug/L	200	194	97	75-125	
Calcium	ug/L	10000	10900	109	75-125	
Chromium	ug/L	200	171	86	75-125	
Cobalt	ug/L	200	209	105	75-125	
Copper	ug/L	200	192	96	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

LABORATORY CONTROL SAMPLE: 27917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10700	107	75-125	
Lead	ug/L	200	193	97	75-125	
Lithium	ug/L	200	204	102	75-125	
Magnesium	ug/L	10000	10700	107	75-125	
Manganese	ug/L	200	214	107	75-125	
Molybdenum	ug/L	200	188	94	75-125	
Nickel	ug/L	200	196	98	75-125	
Potassium	ug/L	10000	10800	108	75-125	
Selenium	ug/L	200	197	99	75-125	
Silver	ug/L	100	94.2	94	75-125	
Sodium	ug/L	10000	10600	106	75-125	
Thallium	ug/L	200	195	98	75-125	
Total Hardness	mg/L		71.2			
Vanadium	ug/L	200	211	105	75-125	
Zinc	ug/L	200	198	99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27918 27919

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	31.7J	10000	10000	10100	10500	101	105	75-125	4	20	
Antimony	ug/L	0.24J	200	200	203	207	101	103	75-125	2	20	
Arsenic	ug/L	0.85J	200	200	199	201	99	100	75-125	1	20	
Barium	ug/L	3.9	200	200	194	198	95	97	75-125	2	20	
Beryllium	ug/L	<0.070	200	200	200	200	100	100	75-125	.5	20	
Boron	ug/L	13.2	200	200	197	200	92	93	75-125	2	20	
Cadmium	ug/L	<0.098	200	200	193	196	97	98	75-125	2	20	
Calcium	ug/L	7380	10000	10000	18600	19000	112	117	75-125	2	20	
Chromium	ug/L	0.88J	200	200	177	175	88	87	75-125	1	20	
Cobalt	ug/L	0.21J	200	200	203	206	102	103	75-125	1	20	
Copper	ug/L	0.36J	200	200	193	196	96	98	75-125	1	20	
Iron	ug/L	796	10000	10000	11400	11500	106	107	75-125	.5	20	
Lead	ug/L	0.27J	200	200	196	199	98	99	75-125	1	20	
Lithium	ug/L	0.96J	200	200	200	200	99	100	75-125	.4	20	
Magnesium	ug/L	2950	10000	10000	13600	14100	107	111	75-125	3	20	
Manganese	ug/L	278	200	200	506	516	114	119	75-125	2	20	
Molybdenum	ug/L	0.78J	200	200	193	196	96	98	75-125	2	20	
Nickel	ug/L	0.82J	200	200	196	198	98	99	75-125	.9	20	
Potassium	ug/L	988	10000	10000	11600	11800	106	109	75-125	2	20	
Selenium	ug/L	0.62J	200	200	196	194	98	97	75-125	1	20	
Silver	ug/L	0.15J	100	100	89.0	95.4	89	95	75-125	7	20	
Sodium	ug/L	915	10000	10000	11300	11600	104	106	75-125	2	20	
Thallium	ug/L	0.090J	200	200	197	201	99	101	75-125	2	20	
Total Hardness	mg/L	30.6			102	105				3	20	
Vanadium	ug/L	<0.41	200	200	208	210	104	105	75-125	1	20	
Zinc	ug/L	5.0J	200	200	193	196	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WETA/1509 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 28213
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 28214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	491	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28217 28218

Parameter	Units	403602002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	343	1000	1000	1340	1340	100	100	90-110	.3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28760 28761

Parameter	Units	403515013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	20.7J	526	526	543	547	99	100	90-110	.9	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WETA/1513 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 28391
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 28392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28393 28394

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.10	112	100	90-110	11	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28395 28396

Parameter	Units	403700007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.036	.6	.6	0.68	0.69	111	113	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WET/1470 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 29451
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 29452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 29453 29454

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	33.3	500	500	528	535	99	100	80-120	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: CVFS/1076 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 30071
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.272J	0.50	

METHOD BLANK: 30072
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.214J	0.50	

METHOD BLANK: 30073
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.323J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 30074 30075

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.47	5.15	109	103	79-121	6	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30076 30077

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.09	5	5	6.10	6.17	100	102	75-125	1	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30078 30079

Parameter	Units	403652002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	3.60	11	11	13.1	13.6	86	91	75-125	4	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WETA/1556 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 30960
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 30961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30962 30963

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.2	10.3	100	100	90-110	.8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30964 30965

Parameter	Units	403628008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	11.1	10.7	111	106	90-110	4	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WETA/1600 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 33091
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	95.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33093 33094

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	15.2	100	100	114	115	99	100	80-120	.9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33095 33096

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	7.4	100	100	107	107	100	100	80-120	.2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

QC Batch: WETA/1609 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

METHOD BLANK: 33300
Associated Lab Samples: 403549001, 403549002, 403549003, 403549004, 403549005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	101	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33302 33303

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	7.3	100	100	113	110	106	103	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33640 33641

Parameter	Units	403628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.3	100	100	106	105	104	103	80-120	.5	20	

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: WET/1425

[1]

Batch: WET/1432

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: ICPM/1106

[1] Internal standard limits of 30-140% were used. All QC is within acceptable limits.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
SD	The serial dilution and the original analysis did not agree within ±10%. The concentration is estimated due to a suspected chemical or physical interference.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403549001	LKL-001	EPA 300.0	WETA/1465		
403549002	LKL-002	EPA 300.0	WETA/1465		
403549003	FBK-003	EPA 300.0	WETA/1465		
403549004	DUP-003	EPA 300.0	WETA/1465		
403549005	HMP-009	EPA 300.0	WETA/1465		
403549001	LKL-001	EPA 300.0	WETA/1466		
403549002	LKL-002	EPA 300.0	WETA/1466		
403549003	FBK-003	EPA 300.0	WETA/1466		
403549004	DUP-003	EPA 300.0	WETA/1466		
403549005	HMP-009	EPA 300.0	WETA/1466		
403549001	LKL-001	SM 2130B	WET/1423		
403549002	LKL-002	SM 2130B	WET/1423		
403549003	FBK-003	SM 2130B	WET/1423		
403549004	DUP-003	SM 2130B	WET/1423		
403549005	HMP-009	SM 2130B	WET/1423		
403549001	LKL-001	SM 2540C	WET/1425		
403549002	LKL-002	SM 2540C	WET/1425		
403549003	FBK-003	SM 2540C	WET/1425		
403549004	DUP-003	SM 2540C	WET/1425		
403549005	HMP-009	SM 2540C	WET/1425		
403549001	LKL-001	SM 4500-S F (2000)	WET/1432		
403549002	LKL-002	SM 4500-S F (2000)	WET/1432		
403549003	FBK-003	SM 4500-S F (2000)	WET/1432		
403549004	DUP-003	SM 4500-S F (2000)	WET/1432		
403549005	HMP-009	SM 4500-S F (2000)	WET/1432		
403549001	LKL-001	SM 2540D	WET/1442		
403549002	LKL-002	SM 2540D	WET/1442		
403549003	FBK-003	SM 2540D	WET/1442		
403549004	DUP-003	SM 2540D	WET/1442		
403549005	HMP-009	SM 2540D	WET/1442		
403549001	LKL-001	EPA 3020	MPRP/1313	EPA 6020	ICPM/1106
403549002	LKL-002	EPA 3020	MPRP/1313	EPA 6020	ICPM/1106
403549003	FBK-003	EPA 3020	MPRP/1313	EPA 6020	ICPM/1106
403549004	DUP-003	EPA 3020	MPRP/1313	EPA 6020	ICPM/1106
403549005	HMP-009	EPA 3020	MPRP/1313	EPA 6020	ICPM/1106
403549001	LKL-001	EPA 410.4	WETA/1509		
403549002	LKL-002	EPA 410.4	WETA/1509		
403549003	FBK-003	EPA 410.4	WETA/1509		
403549004	DUP-003	EPA 410.4	WETA/1509		
403549005	HMP-009	EPA 410.4	WETA/1509		
403549001	LKL-001	EPA 335.4	WETA/1513		
403549002	LKL-002	EPA 335.4	WETA/1513		
403549003	FBK-003	EPA 335.4	WETA/1513		
403549004	DUP-003	EPA 335.4	WETA/1513		
403549005	HMP-009	EPA 335.4	WETA/1513		

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403549001	LKL-001	SM 2320B	WET/1470		
403549002	LKL-002	SM 2320B	WET/1470		
403549003	FBK-003	SM 2320B	WET/1470		
403549004	DUP-003	SM 2320B	WET/1470		
403549005	HMP-009	SM 2320B	WET/1470		
403549001	LKL-001	EPA 1631E	CVFS/1076	EPA 1631E	CVFS/1077
403549002	LKL-002	EPA 1631E	CVFS/1076	EPA 1631E	CVFS/1077
403549003	FBK-003	EPA 1631E	CVFS/1076	EPA 1631E	CVFS/1077
403549004	DUP-003	EPA 1631E	CVFS/1076	EPA 1631E	CVFS/1077
403549005	HMP-009	EPA 1631E	CVFS/1076	EPA 1631E	CVFS/1077
403549001	LKL-001	EPA 350.1	WETA/1556		
403549002	LKL-002	EPA 350.1	WETA/1556		
403549003	FBK-003	EPA 350.1	WETA/1556		
403549004	DUP-003	EPA 350.1	WETA/1556		
403549005	HMP-009	EPA 350.1	WETA/1556		
403549001	LKL-001	SM 5310C	WETA/1600		
403549002	LKL-002	SM 5310C	WETA/1600		
403549003	FBK-003	SM 5310C	WETA/1600		
403549004	DUP-003	SM 5310C	WETA/1600		
403549005	HMP-009	SM 5310C	WETA/1600		
403549001	LKL-001	SM 5310C	WETA/1609		
403549002	LKL-002	SM 5310C	WETA/1609		
403549003	FBK-003	SM 5310C	WETA/1609		
403549004	DUP-003	SM 5310C	WETA/1609		
403549005	HMP-009	SM 5310C	WETA/1609		

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Waltz Mill Radiochemistry Lab
P.O. Box 158
Bldg. G, M/S 62
Madison, PA 15663
Phone: 724.722.5214
Fax: 724.722.5208

May 21, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
403549 Foth & Van Dyke
Pace Project No. 08-2096

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on May 13, 2008 and logged in for analysis on May 14, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:tew

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2096
CLIENT: 403549 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0805-0533	LKL-001 (403549001)	0805-0534	LKL-002 (403549002)
0805-0535	FBK-003 (403549003)	0805-0536	DUP-003 (403549004)
0805-0537	HMP-009 (403549005)		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

0000003

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2096
Groundwater Characterization; 403549 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0805-0533	LKL-001 (403549001)	(5/7/08)	05/20/08	-0.064 ± 0.450	(1.44)
0805-0534	LKL-002 (403549002)	(5/7/08)	05/20/08	0.322 ± 0.639	(1.48)
0805-0535	FBK-003 (403549003)	(5/7/08)	05/20/08	0.601 ± 0.682	(1.28)
0805-0536	DUP-003 (403549004)	(5/7/08)	05/20/08	0.435 ± 0.906	(2.11)
0805-0537	HMP-009 (403549005)	(5/7/08)	05/20/08	0.000 ± 1.21	(2.89)
0805-0538	Method Blank	(5/13/08)	05/20/08	0.253 ± 0.565	(1.34)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0805-0533	LKL-001 (403549001)	(5/7/08)	05/20/08	2.23 ± 1.08	(1.76)
0805-0534	LKL-002 (403549002)	(5/7/08)	05/20/08	1.14 ± 0.881	(1.70)
0805-0535	FBK-003 (403549003)	(5/7/08)	05/20/08	-0.305 ± 0.678	(1.78)
0805-0536	DUP-003 (403549004)	(5/7/08)	05/20/08	1.46 ± 0.969	(1.79)
0805-0537	HMP-009 (403549005)	(5/7/08)	05/20/08	7.29 ± 1.69	(1.26)
0805-0538	Method Blank	(5/13/08)	05/20/08	2.17 ± 1.09	(1.79)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Pace Analytical Inter-Laboratory IRWO / Sub-COC

Inter-Laboratory Work Order # 403549

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 5/8	Sending Project No:	403549
Receiving Region:	Pace-PA	Receiving Project No:	08-2096
State of Sample Origin:	MI	Date IRWO / Sub-COC Prepared:	5/9/08
Sending Project Manager:	Tod Noltemeyer / Alee Her	REQUESTED COMPLETION DATE:	5/30/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL. NEED CUSTODIAL FILE ALSO		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	5	$ 60.00	$ 300.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 300.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 300.00	$ 240.00	$ 60.00
Total			$ 240.00	$ 60.00

Sub-COC

P = Poly
G = Glass
AG = Amber Glass

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Client Sample ID	Pace Lab Number	Collect Date/Time	Matrix	Method	Gross Alpha/Beta 900				
LKL-001 0805-0533	403549001	05/07/08	W		X				
LKL-002 0534	403549002	05/07/08	W		X				
FBK-003 0535	403549003	05/07/08	W		X				
DUP-003 0536	403549004	05/07/08	W		X				
HMP-009 0537	403549005	05/07/08	W		X				
MB - 0538									

Relinquished By: [signature] Date/Time: 5/9/08 1100 Received By: [signature] Date/Time:

Relinquished By: Date/Time: Received By: [signature] Date/Time: 5/13/08

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson + Fath I+E Project # 403549

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other poly bags

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 0.0 +0.5 **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: 5-8-08 cg

Temp should be above freezing to 6°C **Comments:**

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. Nitrate / Nitrite / Turbidity
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes	☐No	☐N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed cg / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AH **Date:** 5/8/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ~~Na~~ Zn NaOH	Analysis Test (Y/N)	Al2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 403549 5-9-08
1	LKL-001	001	WT	G			5/7/08	1045		13	4	3	2		1			1		1	1	1	1	2	1	1	1	4				N	2-xtra 4oz ag C Rec
2	LKL-002	002		G				1015		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
3	FBK-003	003						0930		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
4	~~FBK-00~~ DUP-003	004		G				—		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
5	HMP-009	005		G				1300		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
MS/MSD collected at LKL-001	Chris Cantway/NJC	5/7/08	1530							
Temps: 0.0+0.5	FedEx	5-8-08	0940	C. [illegible] Pace	5-8-08	0940		Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Richard Eagle Curt Sheffield

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/7/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Batch No. 403515

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	Matrix	Date Collected	Date Received
403515001	**FBK-002**	Water	05/06/08 09:20	05/07/08 10:00
403515002	**DUP-002**	Water	05/06/08 00:00	05/07/08 10:00
403515003	**WLD-001 SE**	Water	05/06/08 10:15	05/07/08 10:00
403515004	**WLD-001 NW**	Water	05/06/08 10:40	05/07/08 10:00
403515005	**WLD-001**	Water	05/06/08 11:40	05/07/08 10:00
403515006	**HMP-005**	Water	05/06/08 12:20	05/07/08 10:00
403515007	**HMP-007**	Water	05/06/08 14:15	05/07/08 10:00
403515008	**HMP-006**	Water	05/06/08 13:15	05/07/08 10:00
403515009	**WLD-002**	Water	05/06/08 12:45	05/07/08 10:00
403515010	**WLD-003**	Water	05/06/08 10:40	05/07/08 10:00
403515011	**HMP-004**	Water	05/06/08 14:45	05/07/08 10:00
403515012	**HTP-001**	Water	05/06/08 16:15	05/07/08 10:00
403515013	**HTP-002**	Water	05/06/08 14:30	05/07/08 10:00
403515014	**WBR-003**	Water	05/06/08 09:40	05/07/08 10:00

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1241 Bellevue Street
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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
403515001	**FBK-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515002	**DUP-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515003	**WLD-001 SE**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515004	**WLD-001 NW**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515005	**WLD-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515006	**HMP-005**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515007	**HMP-007**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515008	**HMP-006**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515009	**WLD-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515010	**WLD-003**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515011	**HMP-004**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515012	**HTP-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515013	**HTP-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G
403515014	**WBR-003**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	AMT	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

Internal standard limits of 30-140% used. All QC within acceptable limits.
- QC Batch: ICPM / 1102

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1411

R1: RPD value was outside control limits.

- DUP (Lab ID: 24957)
  - Turbidity

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1425

R1: RPD value was outside control limits.

- DUP (Lab ID: 26044)
  - Total Dissolved Solids

Additional Comments:

Batch Comments:

- QC Batch: WET / 1425

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1442

R1: RPD value was outside control limits.

- DUP (Lab ID: 27031)
  - Total Suspended Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/1432

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1460

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403515002,403515004

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 24903)
  - Nitrate as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1513

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403549001,403700007

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 28393)
  - Cyanide
- MS (Lab ID: 28395)
  - Cyanide
- MSD (Lab ID: 28396)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1497

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403515002,403515012

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 27738)
  - Nitrogen, Ammonia
- MS (Lab ID: 27740)
  - Nitrogen, Ammonia

R1: RPD value was outside control limits.

- MS (Lab ID: 27740)
  - Nitrogen, Ammonia
- MSD (Lab ID: 27741)
  - Nitrogen, Ammonia

QC Batch: WETA/1556

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403549001,403628008

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 30964)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1493

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403472008,403679001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 27391)
  - Chemical Oxygen Demand

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/1493

- MSD (Lab ID: 27392)
  - Chemical Oxygen Demand

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 06, 2008

General Information:
14 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1601

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403515001,403547001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 33104)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: FBK-002 **Lab ID: 403515001** Collected: 05/06/08 09:20 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.462J**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 13:14	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 18:47	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 04:51	7440-36-0	
Arsenic	**<0.093**	ug/L	1.0	0.093	1	05/09/08 12:15	05/21/08 01:41	7440-38-2	
Barium	**0.15J**	ug/L	1.0	0.072	1	05/09/08 12:15	05/21/08 01:41	7440-39-3	B
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 01:41	7440-41-7	
Boron	**3.9J**	ug/L	10.0	1.1	1	05/09/08 12:15	05/30/08 04:51	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	05/21/08 01:41	7440-43-9	
Calcium	**72.3J**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 18:47	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/09/08 12:15	05/21/08 01:41	7440-47-3	
Cobalt	**<0.059**	ug/L	1.0	0.059	1	05/09/08 12:15	05/21/08 01:41	7440-48-4	
Copper	**<0.12**	ug/L	1.0	0.12	1	05/09/08 12:15	05/21/08 01:41	7440-50-8	
Iron	**5.8J**	ug/L	50.0	2.9	1	05/09/08 12:15	05/21/08 01:41	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/09/08 12:15	05/21/08 01:41	7439-92-1	
Lithium	**<0.085**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 04:51	7439-93-2	
Magnesium	**<52.6**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 18:47	7439-95-4	
Manganese	**5.4**	ug/L	1.0	0.080	1	05/09/08 12:15	05/21/08 01:41	7439-96-5	
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/09/08 12:15	05/21/08 01:41	7439-98-7	
Nickel	**<0.074**	ug/L	1.0	0.074	1	05/09/08 12:15	05/21/08 01:41	7440-02-0	
Potassium	**<6.2**	ug/L	500	6.2	1	05/09/08 12:15	06/03/08 18:47	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 04:51	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 01:41	7440-22-4	
Sodium	**530**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 18:47	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	05/21/08 01:41	7440-28-0	
Total Hardness	**0.24J**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 18:47		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	05/21/08 01:41	7440-62-2	
Zinc	**4.8J**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 01:41	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:07		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:07		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**12.0J**	mg/L	20.0	12.0	1		05/08/08 13:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: FBK-002 **Lab ID: 403515001** Collected: 05/06/08 09:20 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/07/08 20:37	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 02:45	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**<1.1**	mg/L	5.0	1.1	1		05/07/08 20:37	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		05/07/08 20:37	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		05/07/08 20:37	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:40	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:55	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		05/13/08 08:26		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		05/27/08 15:46	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		06/02/08 12:37		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: DUP-002 **Lab ID: 403515002** Collected: 05/06/08 00:00 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.32**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 14:03	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**8.6J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 19:30	7429-90-5	
Antimony	**0.18J**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 05:34	7440-36-0	
Arsenic	**1.6**	ug/L	1.0	0.093	1	05/09/08 12:15	05/21/08 02:11	7440-38-2	
Barium	**7.3**	ug/L	1.0	0.072	1	05/09/08 12:15	05/21/08 02:11	7440-39-3	
Beryllium	**0.080J**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 02:11	7440-41-7	
Boron	**28.4**	ug/L	10.0	1.1	1	05/09/08 12:15	05/30/08 05:34	7440-42-8	B
Cadmium	**0.18J**	ug/L	1.0	0.098	1	05/09/08 12:15	05/21/08 02:11	7440-43-9	
Calcium	**10100**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 19:30	7440-70-2	
Chromium	**0.59J**	ug/L	1.0	0.43	1	05/09/08 12:15	05/21/08 02:11	7440-47-3	
Cobalt	**0.16J**	ug/L	1.0	0.059	1	05/09/08 12:15	05/21/08 02:11	7440-48-4	
Copper	**<0.12**	ug/L	1.0	0.12	1	05/09/08 12:15	05/21/08 02:11	7440-50-8	
Iron	**2020**	ug/L	50.0	2.9	1	05/09/08 12:15	05/21/08 02:11	7439-89-6	
Lead	**0.15J**	ug/L	1.0	0.044	1	05/09/08 12:15	05/21/08 02:11	7439-92-1	
Lithium	**2.1**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 05:34	7439-93-2	
Magnesium	**4090**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 19:30	7439-95-4	
Manganese	**101**	ug/L	1.0	0.080	1	05/09/08 12:15	05/21/08 02:11	7439-96-5	
Molybdenum	**1.1J**	ug/L	10.0	0.11	1	05/09/08 12:15	05/21/08 02:11	7439-98-7	
Nickel	**1.3**	ug/L	1.0	0.074	1	05/09/08 12:15	05/21/08 02:11	7440-02-0	
Potassium	**2280**	ug/L	500	6.2	1	05/09/08 12:15	06/03/08 19:30	7440-09-7	
Selenium	**0.25J**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 05:34	7782-49-2	
Silver	**0.11J**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 02:11	7440-22-4	
Sodium	**1200**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 19:30	7440-23-5	
Thallium	**0.080J**	ug/L	1.0	0.030	1	05/09/08 12:15	05/21/08 02:11	7440-28-0	
Total Hardness	**42.1**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 19:30		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	05/21/08 02:11	7440-62-2	
Zinc	**6.0J**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 02:11	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.0**	NTU	1.0	0.44	1		05/08/08 08:40		R1
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**42.2**	mg/L	10.0	3.2	1		05/15/08 16:08		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:08		
Alkalinity, Total as CaCO3	**42.2**	mg/L	10.0	3.2	1		05/15/08 16:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**60.0**	mg/L	20.0	12.0	1		05/08/08 13:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.8**	mg/L	1.7	0.52	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: DUP-002 **Lab ID: 403515002** Collected: 05/06/08 00:00 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/07/08 20:51	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 02:59	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5J**	mg/L	5.0	1.1	1		05/07/08 20:51	16887-00-6	
Fluoride	**0.29J**	mg/L	0.50	0.059	1		05/07/08 20:51	16984-48-8	
Sulfate	**4.8**	mg/L	4.0	0.51	1		05/07/08 20:51	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:41	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:56	7664-41-7	M0
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**24.1J**	mg/L	50.0	10.8	1		05/13/08 08:26		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.3**	mg/L	2.0	1.4	1		05/27/08 16:08	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.8**	mg/L	2.0	1.4	1		06/02/08 12:42		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-001 SE **Lab ID: 403515003** Collected: 05/06/08 10:15 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.79**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 14:12	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**72.4**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 19:42	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 05:47	7440-36-0	
Arsenic	**1.4**	ug/L	1.0	0.093	1	05/09/08 12:15	05/30/08 05:47	7440-38-2	
Barium	**21.4**	ug/L	1.0	0.072	1	05/09/08 12:15	05/30/08 05:47	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 02:35	7440-41-7	
Boron	**40.1**	ug/L	10.0	1.1	1	05/09/08 12:15	05/30/08 05:47	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	05/30/08 05:47	7440-43-9	
Calcium	**18500**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 19:42	7440-70-2	
Chromium	**0.47J**	ug/L	1.0	0.43	1	05/09/08 12:15	06/03/08 19:42	7440-47-3	
Cobalt	**0.55J**	ug/L	1.0	0.059	1	05/09/08 12:15	06/03/08 19:42	7440-48-4	
Copper	**0.42J**	ug/L	1.0	0.12	1	05/09/08 12:15	05/30/08 05:47	7440-50-8	
Iron	**7440**	ug/L	50.0	2.9	1	05/09/08 12:15	06/03/08 19:42	7439-89-6	
Lead	**0.59J**	ug/L	1.0	0.044	1	05/09/08 12:15	05/30/08 05:47	7439-92-1	
Lithium	**0.84J**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 05:47	7439-93-2	
Magnesium	**7780**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 19:42	7439-95-4	
Manganese	**1530**	ug/L	1.0	0.080	1	05/09/08 12:15	06/03/08 19:42	7439-96-5	
Molybdenum	**0.32J**	ug/L	10.0	0.11	1	05/09/08 12:15	05/30/08 05:47	7439-98-7	
Nickel	**0.44J**	ug/L	1.0	0.074	1	05/09/08 12:15	05/21/08 02:35	7440-02-0	
Potassium	**3030**	ug/L	500	6.2	1	05/09/08 12:15	06/03/08 19:42	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 05:47	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 02:35	7440-22-4	
Sodium	**2270**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 19:42	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	05/30/08 05:47	7440-28-0	
Total Hardness	**78.3**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 19:42		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	06/03/08 19:42	7440-62-2	
Zinc	**13.6**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 02:35	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**53.4**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**84.4**	mg/L	10.0	3.2	1		05/15/08 16:08		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:08		
Alkalinity, Total as CaCO3	**84.4**	mg/L	10.0	3.2	1		05/15/08 16:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**104**	mg/L	20.0	12.0	1		05/08/08 13:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**25.0**	mg/L	5.0	1.6	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-001 SE **Lab ID: 403515003** Collected: 05/06/08 10:15 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.17J**	mg/L	0.40	0.085	1		05/07/08 21:33	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 03:42	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**5.2**	mg/L	5.0	1.1	1		05/07/08 21:33	16887-00-6	
Fluoride	**0.39J**	mg/L	0.50	0.059	1		05/07/08 21:33	16984-48-8	
Sulfate	**10.0**	mg/L	4.0	0.51	1		05/07/08 21:33	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:42	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:00	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**37.5J**	mg/L	50.0	10.8	1		05/13/08 08:26		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.2**	mg/L	2.0	1.4	1		05/27/08 16:14	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.3**	mg/L	2.0	1.4	1		06/02/08 13:04		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-001 NW **Lab ID: 403515004** Collected: 05/06/08 10:40 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**6.20**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 14:18	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**25.9J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 19:48	7429-90-5	
Antimony	**0.12J**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 05:53	7440-36-0	
Arsenic	**0.32J**	ug/L	1.0	0.093	1	05/09/08 12:15	05/30/08 05:53	7440-38-2	
Barium	**8.0**	ug/L	1.0	0.072	1	05/09/08 12:15	05/30/08 05:53	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 02:41	7440-41-7	
Boron	**34.9**	ug/L	10.0	1.1	1	05/09/08 12:15	05/30/08 05:53	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	05/30/08 05:53	7440-43-9	
Calcium	**15000**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 19:48	7440-70-2	
Chromium	**0.49J**	ug/L	1.0	0.43	1	05/09/08 12:15	06/03/08 19:48	7440-47-3	
Cobalt	**0.48J**	ug/L	1.0	0.059	1	05/09/08 12:15	06/03/08 19:48	7440-48-4	
Copper	**2.6**	ug/L	1.0	0.12	1	05/09/08 12:15	05/30/08 05:53	7440-50-8	
Iron	**254**	ug/L	50.0	2.9	1	05/09/08 12:15	06/03/08 19:48	7439-89-6	
Lead	**0.26J**	ug/L	1.0	0.044	1	05/09/08 12:15	05/30/08 05:53	7439-92-1	
Lithium	**0.56J**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 05:53	7439-93-2	
Magnesium	**7040**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 19:48	7439-95-4	
Manganese	**35.6**	ug/L	1.0	0.080	1	05/09/08 12:15	06/03/08 19:48	7439-96-5	
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/09/08 12:15	05/30/08 05:53	7439-98-7	
Nickel	**1.9**	ug/L	1.0	0.074	1	05/09/08 12:15	05/21/08 02:41	7440-02-0	
Potassium	**2640**	ug/L	500	6.2	1	05/09/08 12:15	06/03/08 19:48	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 05:53	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 02:41	7440-22-4	
Sodium	**2270**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 19:48	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	05/30/08 05:53	7440-28-0	
Total Hardness	**66.6**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 19:48		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	06/03/08 19:48	7440-62-2	
Zinc	**4.3J**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 02:41	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.7**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**62.2**	mg/L	10.0	3.2	1		05/15/08 16:08		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:08		
Alkalinity, Total as CaCO3	**62.2**	mg/L	10.0	3.2	1		05/15/08 16:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**94.0**	mg/L	20.0	12.0	1		05/08/08 13:17		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.6**	mg/L	1.0	0.31	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-001 NW **Lab ID: 403515004** Collected: 05/06/08 10:40 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.15J**	mg/L	0.40	0.085	1		05/07/08 21:47	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 03:56	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.4J**	mg/L	5.0	1.1	1		05/07/08 21:47	16887-00-6	
Fluoride	**0.30J**	mg/L	0.50	0.059	1		05/07/08 21:47	16984-48-8	
Sulfate	**12.6**	mg/L	4.0	0.51	1		05/07/08 21:47	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:46	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:01	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**26.4J**	mg/L	50.0	10.8	1		05/13/08 08:27		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.3**	mg/L	2.0	1.4	1		05/27/08 16:19	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.4**	mg/L	2.0	1.4	1		06/02/08 13:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-001 **Lab ID: 403515005** Collected: 05/06/08 11:40 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.14**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 14:28	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**64.9**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 19:54	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 05:59	7440-36-0	
Arsenic	**0.91J**	ug/L	1.0	0.093	1	05/09/08 12:15	05/30/08 05:59	7440-38-2	
Barium	**10.6**	ug/L	1.0	0.072	1	05/09/08 12:15	05/30/08 05:59	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 02:47	7440-41-7	
Boron	**41.1**	ug/L	10.0	1.1	1	05/09/08 12:15	05/30/08 05:59	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	05/30/08 05:59	7440-43-9	
Calcium	**20600**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 19:54	7440-70-2	
Chromium	**0.52J**	ug/L	1.0	0.43	1	05/09/08 12:15	06/03/08 19:54	7440-47-3	
Cobalt	**0.73J**	ug/L	1.0	0.059	1	05/09/08 12:15	06/03/08 19:54	7440-48-4	
Copper	**0.34J**	ug/L	1.0	0.12	1	05/09/08 12:15	05/30/08 05:59	7440-50-8	
Iron	**4850**	ug/L	50.0	2.9	1	05/09/08 12:15	06/03/08 19:54	7439-89-6	
Lead	**0.13J**	ug/L	1.0	0.044	1	05/09/08 12:15	05/30/08 05:59	7439-92-1	
Lithium	**1.8**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 05:59	7439-93-2	
Magnesium	**8880**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 19:54	7439-95-4	
Manganese	**1460**	ug/L	1.0	0.080	1	05/09/08 12:15	06/03/08 19:54	7439-96-5	
Molybdenum	**0.28J**	ug/L	10.0	0.11	1	05/09/08 12:15	05/30/08 05:59	7439-98-7	
Nickel	**0.48J**	ug/L	1.0	0.074	1	05/09/08 12:15	05/21/08 02:47	7440-02-0	
Potassium	**3310**	ug/L	500	6.2	1	05/09/08 12:15	06/03/08 19:54	7440-09-7	
Selenium	**0.62J**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 05:59	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 02:47	7440-22-4	
Sodium	**1820**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 19:54	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	05/30/08 05:59	7440-28-0	
Total Hardness	**87.9**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 19:54		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	06/03/08 19:54	7440-62-2	
Zinc	**8.1J**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 02:47	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**37.3**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**93.2**	mg/L	10.0	3.2	1		05/15/08 16:09		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:09		
Alkalinity, Total as CaCO3	**93.2**	mg/L	10.0	3.2	1		05/15/08 16:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**104**	mg/L	20.0	12.0	1		05/08/08 13:18		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**8.8**	mg/L	2.0	0.62	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-001 **Lab ID: 403515005** Collected: 05/06/08 11:40 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.17J**	mg/L	0.40	0.085	1		05/07/08 22:30	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 05:07	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.5J**	mg/L	5.0	1.1	1		05/07/08 22:30	16887-00-6	
Fluoride	**0.44J**	mg/L	0.50	0.059	1		05/07/08 22:30	16984-48-8	
Sulfate	**7.9**	mg/L	4.0	0.51	1		05/07/08 22:30	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:46	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:02	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**21.9J**	mg/L	50.0	10.8	1		05/14/08 17:39		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.9**	mg/L	2.0	1.4	1		05/27/08 16:25	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.7**	mg/L	2.0	1.4	1		06/02/08 13:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HMP-005 **Lab ID: 403515006** Collected: 05/06/08 12:20 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.362J**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 14:36	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.7J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 20:00	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 06:05	7440-36-0	
Arsenic	**6.2**	ug/L	1.0	0.093	1	05/09/08 12:15	05/30/08 06:05	7440-38-2	
Barium	**25.9**	ug/L	1.0	0.072	1	05/09/08 12:15	05/30/08 06:05	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 02:53	7440-41-7	
Boron	**44.4**	ug/L	10.0	1.1	1	05/09/08 12:15	05/30/08 06:05	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	05/30/08 06:05	7440-43-9	
Calcium	**30600**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 20:00	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/09/08 12:15	06/03/08 20:00	7440-47-3	
Cobalt	**4.0**	ug/L	1.0	0.059	1	05/09/08 12:15	06/03/08 20:00	7440-48-4	
Copper	**1.1**	ug/L	1.0	0.12	1	05/09/08 12:15	05/30/08 06:05	7440-50-8	
Iron	**4770**	ug/L	50.0	2.9	1	05/09/08 12:15	06/03/08 20:00	7439-89-6	
Lead	**0.10J**	ug/L	1.0	0.044	1	05/09/08 12:15	05/30/08 06:05	7439-92-1	
Lithium	**1.9**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 06:05	7439-93-2	
Magnesium	**13000**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 20:00	7439-95-4	
Manganese	**591**	ug/L	1.0	0.080	1	05/09/08 12:15	06/03/08 20:00	7439-96-5	
Molybdenum	**0.36J**	ug/L	10.0	0.11	1	05/09/08 12:15	05/30/08 06:05	7439-98-7	
Nickel	**15.7**	ug/L	1.0	0.074	1	05/09/08 12:15	05/21/08 02:53	7440-02-0	
Potassium	**2720**	ug/L	500	6.2	1	05/09/08 12:15	06/03/08 20:00	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 06:05	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 02:53	7440-22-4	
Sodium	**7870**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 20:00	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	05/30/08 06:05	7440-28-0	
Total Hardness	**130**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 20:00		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	06/03/08 20:00	7440-62-2	
Zinc	**6.8J**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 02:53	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**14.5**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**64.4**	mg/L	10.0	3.2	1		05/15/08 16:09		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:09		
Alkalinity, Total as CaCO3	**64.4**	mg/L	10.0	3.2	1		05/15/08 16:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**204**	mg/L	20.0	12.0	1		05/08/08 13:18		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**6.4**	mg/L	1.3	0.41	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HMP-005 **Lab ID: 403515006** Collected: 05/06/08 12:20 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.39J**	mg/L	0.40	0.085	1		05/07/08 23:13	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 05:21	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**14.8**	mg/L	5.0	1.1	1		05/07/08 23:13	16887-00-6	
Fluoride	**0.28J**	mg/L	0.50	0.059	1		05/07/08 23:13	16984-48-8	
Sulfate	**75.8**	mg/L	20.0	2.6	5		05/08/08 16:08	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:47	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:02	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		05/14/08 17:40		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.9**	mg/L	2.0	1.4	1		05/27/08 16:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.2**	mg/L	2.0	1.4	1		06/02/08 13:35		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HMP-007 **Lab ID: 403515007** Collected: 05/06/08 14:15 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.935**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 14:41	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**24.5J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 20:07	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 06:11	7440-36-0	
Arsenic	**1.0**	ug/L	1.0	0.093	1	05/09/08 12:15	05/30/08 06:11	7440-38-2	
Barium	**21.5**	ug/L	1.0	0.072	1	05/09/08 12:15	05/30/08 06:11	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 02:59	7440-41-7	
Boron	**23.0**	ug/L	10.0	1.1	1	05/09/08 12:15	05/30/08 06:11	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	05/30/08 06:11	7440-43-9	
Calcium	**11200**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 20:07	7440-70-2	
Chromium	**1.1**	ug/L	1.0	0.43	1	05/09/08 12:15	06/03/08 20:07	7440-47-3	
Cobalt	**0.33J**	ug/L	1.0	0.059	1	05/09/08 12:15	06/03/08 20:07	7440-48-4	
Copper	**0.54J**	ug/L	1.0	0.12	1	05/09/08 12:15	05/30/08 06:11	7440-50-8	
Iron	**4030**	ug/L	50.0	2.9	1	05/09/08 12:15	06/03/08 20:07	7439-89-6	
Lead	**0.10J**	ug/L	1.0	0.044	1	05/09/08 12:15	05/30/08 06:11	7439-92-1	
Lithium	**<0.085**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 06:11	7439-93-2	
Magnesium	**4570**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 20:07	7439-95-4	
Manganese	**536**	ug/L	1.0	0.080	1	05/09/08 12:15	06/03/08 20:07	7439-96-5	
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/09/08 12:15	05/30/08 06:11	7439-98-7	
Nickel	**0.67J**	ug/L	1.0	0.074	1	05/09/08 12:15	05/21/08 02:59	7440-02-0	
Potassium	**1680**	ug/L	500	6.2	1	05/09/08 12:15	06/03/08 20:07	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 06:11	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 02:59	7440-22-4	
Sodium	**18700**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 20:07	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	05/30/08 06:11	7440-28-0	
Total Hardness	**46.9**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 20:07		
Vanadium	**0.58J**	ug/L	1.0	0.41	1	05/09/08 12:15	06/03/08 20:07	7440-62-2	
Zinc	**6.0J**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 02:59	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**10.6**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**48.8**	mg/L	10.0	3.2	1		05/15/08 16:10		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:10		
Alkalinity, Total as CaCO3	**48.8**	mg/L	10.0	3.2	1		05/15/08 16:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**116**	mg/L	20.0	12.0	1		05/08/08 13:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**9.2**	mg/L	2.0	0.62	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HMP-007 **Lab ID: 403515007** Collected: 05/06/08 14:15 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.16J**	mg/L	0.40	0.085	1		05/07/08 23:27	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 05:35	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**37.7**	mg/L	5.0	1.1	1		05/07/08 23:27	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		05/07/08 23:27	16984-48-8	
Sulfate	**2.5J**	mg/L	4.0	0.51	1		05/07/08 23:27	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:48	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:03	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**24.1J**	mg/L	50.0	10.8	1		05/14/08 17:40		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.7**	mg/L	2.0	1.4	1		05/28/08 06:09	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.4**	mg/L	2.0	1.4	1		06/02/08 13:40		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HMP-006 **Lab ID: 403515008** Collected: 05/06/08 13:15 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**3.76**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 14:46	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**148**	ug/L	50.0	4.4	1	05/09/08 12:15	06/04/08 20:24	7429-90-5	
Antimony	**0.18J**	ug/L	1.0	0.10	1	05/09/08 12:15	06/04/08 20:24	7440-36-0	
Arsenic	**0.57J**	ug/L	1.0	0.093	1	05/09/08 12:15	06/04/08 20:24	7440-38-2	
Barium	**17.6**	ug/L	1.0	0.072	1	05/09/08 12:15	06/04/08 20:24	7440-39-3	
Beryllium	**0.10J**	ug/L	1.0	0.070	1	05/09/08 12:15	06/04/08 20:24	7440-41-7	
Boron	**13.8**	ug/L	10.0	1.1	1	05/09/08 12:15	06/04/08 20:24	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	06/04/08 20:24	7440-43-9	
Calcium	**2470**	ug/L	500	10.0	1	05/09/08 12:15	06/04/08 20:24	7440-70-2	
Chromium	**0.85J**	ug/L	1.0	0.43	1	05/09/08 12:15	06/04/08 20:24	7440-47-3	
Cobalt	**0.18J**	ug/L	1.0	0.059	1	05/09/08 12:15	06/04/08 20:24	7440-48-4	
Copper	**0.79J**	ug/L	1.0	0.12	1	05/09/08 12:15	06/04/08 20:24	7440-50-8	
Iron	**308**	ug/L	50.0	2.9	1	05/09/08 12:15	06/04/08 20:24	7439-89-6	
Lead	**0.18J**	ug/L	1.0	0.044	1	05/09/08 12:15	06/04/08 20:24	7439-92-1	
Lithium	**0.34J**	ug/L	1.0	0.085	1	05/09/08 12:15	06/04/08 20:24	7439-93-2	
Magnesium	**749**	ug/L	500	52.6	1	05/09/08 12:15	06/04/08 20:24	7439-95-4	
Manganese	**14.6**	ug/L	1.0	0.080	1	05/09/08 12:15	06/04/08 20:24	7439-96-5	
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/09/08 12:15	06/04/08 20:24	7439-98-7	
Nickel	**1.2**	ug/L	1.0	0.074	1	05/09/08 12:15	06/04/08 20:24	7440-02-0	
Potassium	**469J**	ug/L	500	6.2	1	05/09/08 12:15	06/04/08 20:24	7440-09-7	
Selenium	**0.57J**	ug/L	1.0	0.15	1	05/09/08 12:15	06/04/08 20:24	7782-49-2	
Silver	**0.20J**	ug/L	0.50	0.11	1	05/09/08 12:15	06/04/08 20:24	7440-22-4	
Sodium	**906**	ug/L	500	46.0	1	05/09/08 12:15	06/04/08 20:24	7440-23-5	
Thallium	**0.030J**	ug/L	1.0	0.030	1	05/09/08 12:15	06/04/08 20:24	7440-28-0	
Total Hardness	**9.3**	mg/L	5.0	0.15	1	05/09/08 12:15	06/04/08 20:24		
Vanadium	**0.41J**	ug/L	1.0	0.41	1	05/09/08 12:15	06/04/08 20:24	7440-62-2	
Zinc	**8.4J**	ug/L	10.0	2.1	1	05/09/08 12:15	06/04/08 20:24	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.3**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:10		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:10		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**36.0**	mg/L	20.0	12.0	1		05/13/08 11:15		R1
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**6.1**	mg/L	1.1	0.34	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HMP-006 **Lab ID: 403515008** Collected: 05/06/08 13:15 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.28J**	mg/L	0.40	0.085	1		05/07/08 23:41	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 05:50	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3J**	mg/L	5.0	1.1	1		05/07/08 23:41	16887-00-6	
Fluoride	**0.23J**	mg/L	0.50	0.059	1		05/07/08 23:41	16984-48-8	
Sulfate	**7.8**	mg/L	4.0	0.51	1		05/07/08 23:41	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:52	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:04	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**26.4J**	mg/L	50.0	10.8	1		05/14/08 17:40		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.9**	mg/L	2.0	1.4	1		05/28/08 06:14	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**8.5**	mg/L	2.0	1.4	1		06/02/08 13:47		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-002 **Lab ID: 403515009** Collected: 05/06/08 12:45 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.65**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 15:06	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**36.7J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/04/08 20:30	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	06/04/08 20:30	7440-36-0	
Arsenic	**0.30J**	ug/L	1.0	0.093	1	05/09/08 12:15	06/04/08 20:30	7440-38-2	
Barium	**9.8**	ug/L	1.0	0.072	1	05/09/08 12:15	06/04/08 20:30	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	06/04/08 20:30	7440-41-7	
Boron	**8.6J**	ug/L	10.0	1.1	1	05/09/08 12:15	06/04/08 20:30	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	06/04/08 20:30	7440-43-9	
Calcium	**4410**	ug/L	500	10.0	1	05/09/08 12:15	06/04/08 20:30	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/09/08 12:15	06/04/08 20:30	7440-47-3	
Cobalt	**0.060J**	ug/L	1.0	0.059	1	05/09/08 12:15	06/04/08 20:30	7440-48-4	
Copper	**0.31J**	ug/L	1.0	0.12	1	05/09/08 12:15	06/04/08 20:30	7440-50-8	
Iron	**2180**	ug/L	50.0	2.9	1	05/09/08 12:15	06/04/08 20:30	7439-89-6	
Lead	**0.16J**	ug/L	1.0	0.044	1	05/09/08 12:15	06/04/08 20:30	7439-92-1	
Lithium	**0.26J**	ug/L	1.0	0.085	1	05/09/08 12:15	06/04/08 20:30	7439-93-2	
Magnesium	**907**	ug/L	500	52.6	1	05/09/08 12:15	06/04/08 20:30	7439-95-4	
Manganese	**17.5**	ug/L	1.0	0.080	1	05/09/08 12:15	06/04/08 20:30	7439-96-5	
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/09/08 12:15	06/04/08 20:30	7439-98-7	
Nickel	**0.51J**	ug/L	1.0	0.074	1	05/09/08 12:15	06/04/08 20:30	7440-02-0	
Potassium	**618**	ug/L	500	6.2	1	05/09/08 12:15	06/04/08 20:30	7440-09-7	
Selenium	**0.44J**	ug/L	1.0	0.15	1	05/09/08 12:15	06/04/08 20:30	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	06/04/08 20:30	7440-22-4	
Sodium	**544**	ug/L	500	46.0	1	05/09/08 12:15	06/04/08 20:30	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	06/04/08 20:30	7440-28-0	
Total Hardness	**14.7**	mg/L	5.0	0.15	1	05/09/08 12:15	06/04/08 20:30		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	06/04/08 20:30	7440-62-2	
Zinc	**9.2J**	ug/L	10.0	2.1	1	05/09/08 12:15	06/04/08 20:30	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.0**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**11.1**	mg/L	10.0	3.2	1		05/15/08 16:10		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:10		
Alkalinity, Total as CaCO3	**11.1**	mg/L	10.0	3.2	1		05/15/08 16:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**34.0**	mg/L	20.0	12.0	1		05/13/08 11:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.4**	mg/L	2.0	0.62	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-002 **Lab ID: 403515009** Collected: 05/06/08 12:45 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/07/08 23:55	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 06:04	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		05/07/08 23:55	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		05/07/08 23:55	16984-48-8	
Sulfate	**4.3**	mg/L	4.0	0.51	1		05/07/08 23:55	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:53	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:05	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**33.0J**	mg/L	50.0	10.8	1		05/14/08 17:41		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.8**	mg/L	2.0	1.4	1		05/28/08 06:20	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**8.0**	mg/L	2.0	1.4	1		06/02/08 13:53		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-003 **Lab ID: 403515010** Collected: 05/06/08 10:40 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.72**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 15:08	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**20.9J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/04/08 20:48	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	06/04/08 20:48	7440-36-0	
Arsenic	**0.44J**	ug/L	1.0	0.093	1	05/09/08 12:15	06/04/08 20:48	7440-38-2	
Barium	**14.4**	ug/L	1.0	0.072	1	05/09/08 12:15	06/04/08 20:48	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	06/04/08 20:48	7440-41-7	
Boron	**9.2J**	ug/L	10.0	1.1	1	05/09/08 12:15	06/04/08 20:48	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	06/04/08 20:48	7440-43-9	
Calcium	**5190**	ug/L	500	10.0	1	05/09/08 12:15	06/04/08 20:48	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/09/08 12:15	06/04/08 20:48	7440-47-3	
Cobalt	**0.10J**	ug/L	1.0	0.059	1	05/09/08 12:15	06/04/08 20:48	7440-48-4	
Copper	**0.36J**	ug/L	1.0	0.12	1	05/09/08 12:15	06/04/08 20:48	7440-50-8	
Iron	**1780**	ug/L	50.0	2.9	1	05/09/08 12:15	06/04/08 20:48	7439-89-6	
Lead	**0.090J**	ug/L	1.0	0.044	1	05/09/08 12:15	06/04/08 20:48	7439-92-1	
Lithium	**0.30J**	ug/L	1.0	0.085	1	05/09/08 12:15	06/04/08 20:48	7439-93-2	
Magnesium	**1120**	ug/L	500	52.6	1	05/09/08 12:15	06/04/08 20:48	7439-95-4	
Manganese	**238**	ug/L	1.0	0.080	1	05/09/08 12:15	06/04/08 20:48	7439-96-5	
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/09/08 12:15	06/04/08 20:48	7439-98-7	
Nickel	**0.64J**	ug/L	1.0	0.074	1	05/09/08 12:15	06/04/08 20:48	7440-02-0	
Potassium	**761**	ug/L	500	6.2	1	05/09/08 12:15	06/04/08 20:48	7440-09-7	
Selenium	**0.44J**	ug/L	1.0	0.15	1	05/09/08 12:15	06/04/08 20:48	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	06/04/08 20:48	7440-22-4	
Sodium	**680**	ug/L	500	46.0	1	05/09/08 12:15	06/04/08 20:48	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	06/04/08 20:48	7440-28-0	
Total Hardness	**17.6**	mg/L	5.0	0.15	1	05/09/08 12:15	06/04/08 20:48		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	06/04/08 20:48	7440-62-2	
Zinc	**5.3J**	ug/L	10.0	2.1	1	05/09/08 12:15	06/04/08 20:48	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.9**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**15.5**	mg/L	10.0	3.2	1		05/15/08 16:10		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/15/08 16:10		
Alkalinity, Total as CaCO3	**15.5**	mg/L	10.0	3.2	1		05/15/08 16:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**32.0**	mg/L	20.0	12.0	1		05/13/08 11:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.4**	mg/L	2.0	0.62	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WLD-003 **Lab ID: 403515010** Collected: 05/06/08 10:40 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.16J**	mg/L	0.40	0.085	1		05/08/08 00:09	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 06:18	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3J**	mg/L	5.0	1.1	1		05/08/08 00:09	16887-00-6	
Fluoride	**0.22J**	mg/L	0.50	0.059	1		05/08/08 00:09	16984-48-8	
Sulfate	**6.0**	mg/L	4.0	0.51	1		05/08/08 00:09	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:57	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:05	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**24.1J**	mg/L	50.0	10.8	1		05/14/08 17:41		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.2**	mg/L	2.0	1.4	1		05/28/08 06:25	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**11.5**	mg/L	2.0	1.4	1		06/02/08 13:59		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HMP-004 **Lab ID: 403515011** Collected: 05/06/08 14:45 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**5.94**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 15:13	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**68.7**	ug/L	50.0	4.4	1	05/09/08 12:15	06/04/08 20:54	7429-90-5	
Antimony	**3.6**	ug/L	1.0	0.10	1	05/09/08 12:15	06/04/08 20:54	7440-36-0	
Arsenic	**0.87J**	ug/L	1.0	0.093	1	05/09/08 12:15	06/04/08 20:54	7440-38-2	
Barium	**13.5**	ug/L	1.0	0.072	1	05/09/08 12:15	06/04/08 20:54	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	06/04/08 20:54	7440-41-7	
Boron	**37.6**	ug/L	10.0	1.1	1	05/09/08 12:15	06/04/08 20:54	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	06/04/08 20:54	7440-43-9	
Calcium	**23800**	ug/L	500	10.0	1	05/09/08 12:15	06/04/08 20:54	7440-70-2	
Chromium	**0.65J**	ug/L	1.0	0.43	1	05/09/08 12:15	06/04/08 20:54	7440-47-3	
Cobalt	**2.3**	ug/L	1.0	0.059	1	05/09/08 12:15	06/04/08 20:54	7440-48-4	
Copper	**3.6**	ug/L	1.0	0.12	1	05/09/08 12:15	06/04/08 20:54	7440-50-8	
Iron	**1680**	ug/L	50.0	2.9	1	05/09/08 12:15	06/04/08 20:54	7439-89-6	
Lead	**0.49J**	ug/L	1.0	0.044	1	05/09/08 12:15	06/04/08 20:54	7439-92-1	
Lithium	**0.89J**	ug/L	1.0	0.085	1	05/09/08 12:15	06/04/08 20:54	7439-93-2	
Magnesium	**10900**	ug/L	500	52.6	1	05/09/08 12:15	06/04/08 20:54	7439-95-4	
Manganese	**121**	ug/L	1.0	0.080	1	05/09/08 12:15	06/04/08 20:54	7439-96-5	
Molybdenum	**5.0J**	ug/L	10.0	0.11	1	05/09/08 12:15	06/04/08 20:54	7439-98-7	
Nickel	**26.2**	ug/L	1.0	0.074	1	05/09/08 12:15	06/04/08 20:54	7440-02-0	
Potassium	**5370**	ug/L	500	6.2	1	05/09/08 12:15	06/04/08 20:54	7440-09-7	
Selenium	**0.33J**	ug/L	1.0	0.15	1	05/09/08 12:15	06/04/08 20:54	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	06/04/08 20:54	7440-22-4	
Sodium	**10300**	ug/L	500	46.0	1	05/09/08 12:15	06/04/08 20:54	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	06/04/08 20:54	7440-28-0	
Total Hardness	**104**	mg/L	5.0	0.15	1	05/09/08 12:15	06/04/08 20:54		
Vanadium	**0.60J**	ug/L	1.0	0.41	1	05/09/08 12:15	06/04/08 20:54	7440-62-2	
Zinc	**8.2J**	ug/L	10.0	2.1	1	05/09/08 12:15	06/04/08 20:54	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**5.6**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**59.9**	mg/L	10.0	3.2	1		05/16/08 15:32		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:32		
Alkalinity, Total as CaCO3	**59.9**	mg/L	10.0	3.2	1		05/16/08 15:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**188**	mg/L	20.0	12.0	1		05/13/08 11:17		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**8.4**	mg/L	4.0	1.2	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HMP-004 **Lab ID: 403515011** Collected: 05/06/08 14:45 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.20J**	mg/L	0.40	0.085	1		05/08/08 00:23	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 06:32	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**15.4**	mg/L	5.0	1.1	1		05/08/08 00:23	16887-00-6	
Fluoride	**0.28J**	mg/L	0.50	0.059	1		05/08/08 00:23	16984-48-8	
Sulfate	**74.3**	mg/L	4.0	0.51	1		05/08/08 00:23	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:58	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:06	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**53.2**	mg/L	50.0	10.8	1		05/14/08 17:41		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**16.1**	mg/L	2.0	1.4	1		05/28/08 06:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**19.3**	mg/L	2.0	1.4	1		06/02/08 14:06		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HTP-001 **Lab ID: 403515012** Collected: 05/06/08 16:15 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.01**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 15:18	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**9.6J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/04/08 21:00	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	06/04/08 21:00	7440-36-0	
Arsenic	**0.30J**	ug/L	1.0	0.093	1	05/09/08 12:15	06/04/08 21:00	7440-38-2	
Barium	**3.0**	ug/L	1.0	0.072	1	05/09/08 12:15	06/04/08 21:00	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	06/04/08 21:00	7440-41-7	
Boron	**14.7**	ug/L	10.0	1.1	1	05/09/08 12:15	06/04/08 21:00	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	06/04/08 21:00	7440-43-9	
Calcium	**8180**	ug/L	500	10.0	1	05/09/08 12:15	06/04/08 21:00	7440-70-2	
Chromium	**0.93J**	ug/L	1.0	0.43	1	05/09/08 12:15	06/04/08 21:00	7440-47-3	
Cobalt	**<0.059**	ug/L	1.0	0.059	1	05/09/08 12:15	06/04/08 21:00	7440-48-4	
Copper	**1.7**	ug/L	1.0	0.12	1	05/09/08 12:15	06/04/08 21:00	7440-50-8	
Iron	**171**	ug/L	50.0	2.9	1	05/09/08 12:15	06/04/08 21:00	7439-89-6	B
Lead	**0.10J**	ug/L	1.0	0.044	1	05/09/08 12:15	06/04/08 21:00	7439-92-1	
Lithium	**2.8**	ug/L	1.0	0.085	1	05/09/08 12:15	06/04/08 21:00	7439-93-2	
Magnesium	**5200**	ug/L	500	52.6	1	05/09/08 12:15	06/04/08 21:00	7439-95-4	
Manganese	**5.5**	ug/L	1.0	0.080	1	05/09/08 12:15	06/04/08 21:00	7439-96-5	
Molybdenum	**0.34J**	ug/L	10.0	0.11	1	05/09/08 12:15	06/04/08 21:00	7439-98-7	
Nickel	**0.61J**	ug/L	1.0	0.074	1	05/09/08 12:15	06/04/08 21:00	7440-02-0	
Potassium	**1520**	ug/L	500	6.2	1	05/09/08 12:15	06/04/08 21:00	7440-09-7	
Selenium	**0.50J**	ug/L	1.0	0.15	1	05/09/08 12:15	06/04/08 21:00	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	06/04/08 21:00	7440-22-4	
Sodium	**456J**	ug/L	500	46.0	1	05/09/08 12:15	06/04/08 21:00	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	06/04/08 21:00	7440-28-0	
Total Hardness	**41.8**	mg/L	5.0	0.15	1	05/09/08 12:15	06/04/08 21:00		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	06/04/08 21:00	7440-62-2	
Zinc	**82.2**	ug/L	10.0	2.1	1	05/09/08 12:15	06/04/08 21:00	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.1**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**33.3**	mg/L	10.0	3.2	1		05/16/08 15:33		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:33		
Alkalinity, Total as CaCO3	**33.3**	mg/L	10.0	3.2	1		05/16/08 15:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**56.0**	mg/L	20.0	12.0	1		05/13/08 11:18		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.4**	mg/L	1.0	0.31	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HTP-001 **Lab ID: 403515012** Collected: 05/06/08 16:15 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/08/08 00:38	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 06:46	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1J**	mg/L	5.0	1.1	1		05/08/08 00:38	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		05/08/08 00:38	16984-48-8	
Sulfate	**12.4**	mg/L	4.0	0.51	1		05/08/08 00:38	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:58	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 13:07	7664-41-7	M0,R1
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		05/14/08 17:41		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.9**	mg/L	2.0	1.4	1		05/28/08 06:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.2**	mg/L	2.0	1.4	1		06/02/08 15:08		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HTP-002 **Lab ID: 403515013** Collected: 05/06/08 14:30 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.28**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 15:22	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**8.0J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 20:55	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 07:00	7440-36-0	
Arsenic	**1.3**	ug/L	1.0	0.093	1	05/09/08 12:15	05/30/08 07:00	7440-38-2	
Barium	**6.3**	ug/L	1.0	0.072	1	05/09/08 12:15	05/30/08 07:00	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 03:47	7440-41-7	
Boron	**18.8**	ug/L	10.0	1.1	1	05/09/08 12:15	05/21/08 03:47	7440-42-8	B
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/09/08 12:15	05/30/08 07:00	7440-43-9	
Calcium	**9650**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 20:55	7440-70-2	
Chromium	**0.68J**	ug/L	1.0	0.43	1	05/09/08 12:15	06/03/08 20:55	7440-47-3	
Cobalt	**0.060J**	ug/L	1.0	0.059	1	05/09/08 12:15	06/03/08 20:55	7440-48-4	
Copper	**0.24J**	ug/L	1.0	0.12	1	05/09/08 12:15	05/30/08 07:00	7440-50-8	
Iron	**1930**	ug/L	50.0	2.9	1	05/09/08 12:15	06/03/08 20:55	7439-89-6	
Lead	**0.060J**	ug/L	1.0	0.044	1	05/09/08 12:15	05/30/08 07:00	7439-92-1	
Lithium	**2.0**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 07:00	7439-93-2	
Magnesium	**4070**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 20:55	7439-95-4	
Manganese	**94.4**	ug/L	1.0	0.080	1	05/09/08 12:15	06/03/08 20:55	7439-96-5	
Molybdenum	**0.11J**	ug/L	10.0	0.11	1	05/09/08 12:15	05/30/08 07:00	7439-98-7	
Nickel	**2.1**	ug/L	1.0	0.074	1	05/09/08 12:15	05/30/08 07:00	7440-02-0	
Potassium	**2030**	ug/L	500	6.2	1	05/09/08 12:15	05/21/08 03:47	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 07:00	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 03:47	7440-22-4	
Sodium	**1130**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 20:55	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/09/08 12:15	05/30/08 07:00	7440-28-0	
Total Hardness	**40.8**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 20:55		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	06/03/08 20:55	7440-62-2	
Zinc	**5.5J**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 03:47	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.3**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**44.4**	mg/L	10.0	3.2	1		05/16/08 15:33		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:33		
Alkalinity, Total as CaCO3	**44.4**	mg/L	10.0	3.2	1		05/16/08 15:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**52.0**	mg/L	20.0	12.0	1		05/13/08 11:18		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.0**	mg/L	1.7	0.52	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: HTP-002 **Lab ID: 403515013** Collected: 05/06/08 14:30 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/08/08 00:52	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 07:00	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5J**	mg/L	5.0	1.1	1		05/08/08 00:52	16887-00-6	
Fluoride	**0.29J**	mg/L	0.50	0.059	1		05/08/08 00:52	16984-48-8	
Sulfate	**4.7**	mg/L	4.0	0.51	1		05/08/08 00:52	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:59	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 13:57	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**20.7J**	mg/L	52.6	11.3	1		05/14/08 17:42		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.7**	mg/L	2.0	1.4	1		05/28/08 07:03	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.0**	mg/L	2.0	1.4	1		06/02/08 15:13		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WBR-003 **Lab ID: 403515014** Collected: 05/06/08 09:40 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.92**	ng/L	0.50	0.16	1	05/12/08 16:30	05/14/08 08:54	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**42.2J**	ug/L	50.0	4.4	1	05/09/08 12:15	06/03/08 19:12	7429-90-5	
Antimony	**0.11J**	ug/L	1.0	0.10	1	05/09/08 12:15	05/30/08 05:16	7440-36-0	
Arsenic	**0.80J**	ug/L	1.0	0.093	1	05/09/08 12:15	05/21/08 01:53	7440-38-2	
Barium	**5.9**	ug/L	1.0	0.072	1	05/09/08 12:15	05/21/08 01:53	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/09/08 12:15	05/21/08 01:53	7440-41-7	
Boron	**14.4**	ug/L	10.0	1.1	1	05/09/08 12:15	05/30/08 05:16	7440-42-8	B
Cadmium	**0.14J**	ug/L	1.0	0.098	1	05/09/08 12:15	05/21/08 01:53	7440-43-9	
Calcium	**6330**	ug/L	500	10.0	1	05/09/08 12:15	06/03/08 19:12	7440-70-2	
Chromium	**0.57J**	ug/L	1.0	0.43	1	05/09/08 12:15	05/21/08 01:53	7440-47-3	
Cobalt	**0.16J**	ug/L	1.0	0.059	1	05/09/08 12:15	05/21/08 01:53	7440-48-4	
Copper	**0.55J**	ug/L	1.0	0.12	1	05/09/08 12:15	05/21/08 01:53	7440-50-8	
Iron	**1830**	ug/L	50.0	2.9	1	05/09/08 12:15	05/21/08 01:53	7439-89-6	
Lead	**0.20J**	ug/L	1.0	0.044	1	05/09/08 12:15	05/21/08 01:53	7439-92-1	
Lithium	**0.53J**	ug/L	1.0	0.085	1	05/09/08 12:15	05/30/08 05:16	7439-93-2	
Magnesium	**2830**	ug/L	500	52.6	1	05/09/08 12:15	06/03/08 19:12	7439-95-4	
Manganese	**22.4**	ug/L	1.0	0.080	1	05/09/08 12:15	05/21/08 01:53	7439-96-5	
Molybdenum	**0.67J**	ug/L	10.0	0.11	1	05/09/08 12:15	05/21/08 01:53	7439-98-7	
Nickel	**1.6**	ug/L	1.0	0.074	1	05/09/08 12:15	05/21/08 01:53	7440-02-0	
Potassium	**1190**	ug/L	500	6.2	1	05/09/08 12:15	06/03/08 19:12	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/09/08 12:15	05/30/08 05:16	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/09/08 12:15	05/21/08 01:53	7440-22-4	
Sodium	**11700**	ug/L	500	46.0	1	05/09/08 12:15	06/03/08 19:12	7440-23-5	
Thallium	**0.030J**	ug/L	1.0	0.030	1	05/09/08 12:15	05/21/08 01:53	7440-28-0	
Total Hardness	**27.5**	mg/L	5.0	0.15	1	05/09/08 12:15	06/03/08 19:12		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/09/08 12:15	05/21/08 01:53	7440-62-2	
Zinc	**7.8J**	ug/L	10.0	2.1	1	05/09/08 12:15	05/21/08 01:53	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.3**	NTU	1.0	0.44	1		05/08/08 08:40		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**11.1**	mg/L	10.0	3.2	1		05/16/08 15:33		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/16/08 15:33		
Alkalinity, Total as CaCO3	**11.1**	mg/L	10.0	3.2	1		05/16/08 15:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**86.0**	mg/L	20.0	12.0	1		05/13/08 11:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.5**	mg/L	1.1	0.33	1		05/13/08 10:57		

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ANALYTICAL RESULTS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Sample: WBR-003 **Lab ID: 403515014** Collected: 05/06/08 09:40 Received: 05/07/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/12/08 14:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.14J**	mg/L	0.40	0.085	1		05/08/08 01:06	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/08/08 07:15	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.8**	mg/L	5.0	1.1	1		05/08/08 01:06	16887-00-6	
Fluoride	**0.23J**	mg/L	0.50	0.059	1		05/08/08 01:06	16984-48-8	
Sulfate	**8.0**	mg/L	4.0	0.51	1		05/08/08 01:06	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 15:00	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/21/08 13:58	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**37.5J**	mg/L	50.0	10.8	1		05/14/08 17:42		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**16.1**	mg/L	2.0	1.4	1		05/28/08 07:09	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**14.3**	mg/L	2.0	1.4	1		06/02/08 15:21		

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1460 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013

METHOD BLANK: 24901

Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 24902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	98	90-110	
Nitrite as N	mg/L	.8	0.80	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 24903 24904

Parameter	Units	403515002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.085	1.6	1.6	1.8	1.7	115	108	90-110	6	20	M0
Nitrite as N	mg/L	<0.036	.8	.8	0.79	0.77	99	96	90-110	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 24905 24906

Parameter	Units	403515004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.15J	1.6	1.6	1.7	1.6	99	93	90-110	5	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.79	0.79	99	99	90-110	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1461 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

METHOD BLANK: 24911

Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<1.1	5.0	
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	<0.51	4.0	

LABORATORY CONTROL SAMPLE: 24912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.3	97	90-110	
Fluoride	mg/L	2	2.0	100	90-110	
Sulfate	mg/L	16	15.6	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 24913 24914

Parameter	Units	403515002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.5J	20	20	23.2	22.1	104	98	90-110	5	20	
Fluoride	mg/L	0.29J	2	2	2.4	2.4	108	104	90-110	4	20	
Sulfate	mg/L	4.8	16	16	21.8	21.0	107	101	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 24915 24916

Parameter	Units	403515004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.4J	20	20	23.3	22.0	99	93	90-110	6	20	
Fluoride	mg/L	0.30J	2	2	2.3	2.2	100	94	90-110	5	20	
Sulfate	mg/L	12.6	16	16	30.0	29.0	109	103	90-110	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1411 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

METHOD BLANK: 24955

Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 24956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	534	534	100		

SAMPLE DUPLICATE: 24957

Parameter	Units	403515002 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	4.0	4.4	8	5	R1

SAMPLE DUPLICATE: 24958

Parameter	Units	403515014 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	4.3	4.4	3	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1412 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007

METHOD BLANK: 25198
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	12.0J	20.0	

LABORATORY CONTROL SAMPLE: 25199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1070	1070	100	80-120	

SAMPLE DUPLICATE: 25200

Parameter	Units	403469021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	92.0	6	10	

SAMPLE DUPLICATE: 25201

Parameter	Units	403515002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	60.0	60.0	0	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1422 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013

METHOD BLANK: 25590
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 25591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	223	188	84	80-120	

SAMPLE DUPLICATE: 25592

Parameter	Units	403473001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	128	124	3	10	

SAMPLE DUPLICATE: 25593

Parameter	Units	403515003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	25.0	24.0	4	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1424 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005

METHOD BLANK: 25804
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE: 25805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	38	35.6	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25806 25807

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.3	38	38	38.0	37.2	97	95	80-120	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: MPRP/1292 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008

METHOD BLANK: 25856
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	<4.4	50.0	
Antimony	ug/L	<0.10	1.0	
Arsenic	ug/L	<0.093	1.0	
Barium	ug/L	0.13J	1.0	
Beryllium	ug/L	<0.070	1.0	
Boron	ug/L	2.3J	10.0	
Cadmium	ug/L	<0.098	1.0	
Calcium	ug/L	<10.0	500	
Chromium	ug/L	<0.43	1.0	
Cobalt	ug/L	<0.059	1.0	
Copper	ug/L	<0.12	1.0	
Iron	ug/L	10.9J	50.0	
Lead	ug/L	<0.044	1.0	
Lithium	ug/L	<0.085	1.0	
Magnesium	ug/L	<52.6	500	
Manganese	ug/L	0.24J	1.0	
Molybdenum	ug/L	<0.11	10.0	
Nickel	ug/L	<0.074	1.0	
Potassium	ug/L	<6.2	500	
Selenium	ug/L	<0.15	1.0	
Silver	ug/L	<0.11	0.50	
Sodium	ug/L	<46.0	500	
Thallium	ug/L	<0.030	1.0	
Vanadium	ug/L	<0.41	1.0	
Zinc	ug/L	6.6J	10.0	

LABORATORY CONTROL SAMPLE: 25857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9920	99	75-125	
Antimony	ug/L	200	223	112	75-125	
Arsenic	ug/L	200	219	109	75-125	
Barium	ug/L	200	208	104	75-125	
Beryllium	ug/L	200	192	96	75-125	
Boron	ug/L	200	199	100	75-125	
Cadmium	ug/L	200	217	108	75-125	
Calcium	ug/L	10000	10500	105	75-125	
Chromium	ug/L	200	205	102	75-125	
Cobalt	ug/L	200	200	100	75-125	
Copper	ug/L	200	204	102	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

LABORATORY CONTROL SAMPLE: 25857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	10000	10600	106	75-125	
Lead	ug/L	200	214	107	75-125	
Lithium	ug/L	200	212	106	75-125	
Magnesium	ug/L	10000	10100	101	75-125	
Manganese	ug/L	200	210	105	75-125	
Molybdenum	ug/L	200	212	106	75-125	
Nickel	ug/L	200	202	101	75-125	
Potassium	ug/L	10000	9970	100	75-125	
Selenium	ug/L	200	214	107	75-125	
Silver	ug/L	100	101	101	75-125	
Sodium	ug/L	10000	9880	99	75-125	
Thallium	ug/L	200	207	104	75-125	
Total Hardness	mg/L		67.6			
Vanadium	ug/L	200	208	104	75-125	
Zinc	ug/L	200	213	106	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25858 25859

Parameter	Units	403515014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	42.2J	10000	10000	9590	9370	95	93	75-125	2	20	
Antimony	ug/L	0.11J	200	200	220	214	110	107	75-125	3	20	
Arsenic	ug/L	0.80J	200	200	212	208	106	104	75-125	2	20	
Barium	ug/L	5.9	200	200	199	200	96	97	75-125	.9	20	
Beryllium	ug/L	<0.070	200	200	187	185	94	92	75-125	1	20	
Boron	ug/L	14.4	200	200	213	213	99	99	75-125	.1	20	
Cadmium	ug/L	0.14J	200	200	196	202	98	101	75-125	3	20	
Calcium	ug/L	6330	10000	10000	16400	16400	101	101	75-125	.3	20	
Chromium	ug/L	0.57J	200	200	193	194	96	97	75-125	.4	20	
Cobalt	ug/L	0.16J	200	200	187	188	93	94	75-125	.6	20	
Copper	ug/L	0.55J	200	200	189	189	94	94	75-125	.05	20	
Iron	ug/L	1830	10000	10000	11700	11500	99	97	75-125	1	20	
Lead	ug/L	0.20J	200	200	206	200	103	100	75-125	3	20	
Lithium	ug/L	0.53J	200	200	211	210	105	105	75-125	.6	20	
Magnesium	ug/L	2830	10000	10000	12300	11800	95	90	75-125	4	20	
Manganese	ug/L	22.4	200	200	217	213	97	95	75-125	2	20	
Molybdenum	ug/L	0.67J	200	200	198	196	99	98	75-125	1	20	
Nickel	ug/L	1.6	200	200	191	192	94	95	75-125	.5	20	
Potassium	ug/L	1190	10000	10000	10900	11000	97	98	75-125	.5	20	
Selenium	ug/L	<0.15	200	200	210	205	105	103	75-125	2	20	
Silver	ug/L	<0.11	100	100	91.9	94.9	92	95	75-125	3	20	
Sodium	ug/L	11700	10000	10000	24200	19900	125	82	75-125	19	20	
Thallium	ug/L	0.030J	200	200	204	199	102	100	75-125	3	20	
Total Hardness	mg/L	27.5			91.7	89.7				2	20	
Vanadium	ug/L	<0.41	200	200	196	196	98	98	75-125	.3	20	
Zinc	ug/L	7.8J	200	200	199	198	96	95	75-125	.4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1425 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

METHOD BLANK: 26042
Associated Lab Samples: 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	

LABORATORY CONTROL SAMPLE: 26043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1070	1070	100	80-120	

SAMPLE DUPLICATE: 26044

Parameter	Units	403515008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	32.0	12	10	R1

SAMPLE DUPLICATE: 26045

Parameter	Units	403549001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	54.0	54.0	0	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1432 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

METHOD BLANK: 26773
Associated Lab Samples: 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE & LCSD: 26774 26775

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	37.2	36.0	36.0	97	97	80-120	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1442
QC Batch Method: SM 2540D
Associated Lab Samples: 403515014

Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids

METHOD BLANK: 27028
Associated Lab Samples: 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 27029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	223	188	84	80-120	

SAMPLE DUPLICATE: 27030

Parameter	Units	403532001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5850	6070	4	10	

SAMPLE DUPLICATE: 27031

Parameter	Units	403549001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	0.84J	<0.65	67	10	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1493 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004

METHOD BLANK: 27387
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 27388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	500	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27389 27390

Parameter	Units	403679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	67.7	526	526	587	587	99	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27391 27392

Parameter	Units	403472008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	41.8J	526	526	655	592	117	105	90-110	10	10	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: CVFS/1072 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013

METHOD BLANK: 27614
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.0283J	0.050	

METHOD BLANK: 27615
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 27616
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.264J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 27617 27618

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	4.83	4.96	97	99	79-121	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27619 27620

Parameter	Units	403472008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	5.80	20	20	25.9	23.4	101	88	75-125	10	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27621 27622

Parameter	Units	403472009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	5.62	20	20	24.5	23.7	94	90	75-125	3	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1497 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012

METHOD BLANK: 27736
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 27737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27738 27739

Parameter	Units	403515002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	11.2	11.1	111	110	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27740 27741

Parameter	Units	403515012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	8.6	10.8	85	107	90-110	23	20	M0,R1

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: CVFS/1074
QC Batch Method: EPA 1631E
Associated Lab Samples: 403515014

Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury

METHOD BLANK: 28056
Associated Lab Samples: 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.266J	0.50	

METHOD BLANK: 28057
Associated Lab Samples: 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.226J	0.50	

METHOD BLANK: 28058
Associated Lab Samples: 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.297J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 28059 28060

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.76	4.95	115	99	79-121	15	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28061 28062

Parameter	Units	9218729001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	8.97	20	20	30.0	30.8	105	109	75-125	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28063 28064

Parameter	Units	403582001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	120	400	400	502	471	95	88	75-125	6	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1509 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

METHOD BLANK: 28213
Associated Lab Samples: 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 28214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	491	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28217 28218

Parameter	Units	403602002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	343	1000	1000	1340	1340	100	100	90-110	.3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28760 28761

Parameter	Units	403515013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	20.7J	526	526	543	547	99	100	90-110	.9	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1512 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007

METHOD BLANK: 28385
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 28386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.095	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28387 28388

Parameter	Units	403472008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.10	101	101	90-110	.2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28389 28390

Parameter	Units	403515007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.10	101	102	90-110	.2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1513 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

METHOD BLANK: 28391
Associated Lab Samples: 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 28392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28393 28394

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.10	112	100	90-110	11	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28395 28396

Parameter	Units	403700007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.036	.6	.6	0.68	0.69	111	113	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1461 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010

METHOD BLANK: 28848
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 28849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	468	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28850 28851

Parameter	Units	403515001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	<3.2	500	500	508	500	101	99	80-120	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WET/1470 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 403515011, 403515012, 403515013, 403515014

METHOD BLANK: 29451
Associated Lab Samples: 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 29452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 29453 29454

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	33.3	500	500	528	535	99	100	80-120	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1556
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 403515013, 403515014

METHOD BLANK: 30960
Associated Lab Samples: 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 30961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30962 30963

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.2	10.3	100	100	90-110	.8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 30964 30965

Parameter	Units	403628008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	11.1	10.7	111	106	90-110	4	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1601 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

METHOD BLANK: 33100
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011, 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	96.1	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33102 33103

Parameter	Units	403515001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	<1.4	100	100	104	102	104	102	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33104 33105

Parameter	Units	403547001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	71.4	100	100	201	171	130	100	80-120	16	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1608 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011

METHOD BLANK: 33294
Associated Lab Samples: 403515001, 403515002, 403515003, 403515004, 403515005, 403515006, 403515007, 403515008, 403515009, 403515010, 403515011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33296 33297

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	15.5	100	100	122	123	107	108	80-120	.9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33638 33639

Parameter	Units	403515002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	5.8	100	100	109	109	103	103	80-120	.09	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

QC Batch: WETA/1609 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 403515012, 403515013, 403515014

METHOD BLANK: 33300
Associated Lab Samples: 403515012, 403515013, 403515014

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	101	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33302 33303

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	7.3	100	100	113	110	106	103	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33640 33641

Parameter	Units	403628002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.3	100	100	106	105	104	103	80-120	.5	20	

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QUALIFIERS

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: WET/1425
[1]
Batch: WET/1432
[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: ICPM/1102
[1] Internal standard limits of 30-140% used. All QC within acceptable limits.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.
M0 Matrix spike recovery was outside laboratory control limits.
R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403515001	FBK-002	EPA 300.0	WETA/1460		
403515002	DUP-002	EPA 300.0	WETA/1460		
403515003	WLD-001 SE	EPA 300.0	WETA/1460		
403515004	WLD-001 NW	EPA 300.0	WETA/1460		
403515005	WLD-001	EPA 300.0	WETA/1460		
403515006	HMP-005	EPA 300.0	WETA/1460		
403515007	HMP-007	EPA 300.0	WETA/1460		
403515008	HMP-006	EPA 300.0	WETA/1460		
403515009	WLD-002	EPA 300.0	WETA/1460		
403515010	WLD-003	EPA 300.0	WETA/1460		
403515011	HMP-004	EPA 300.0	WETA/1460		
403515012	HTP-001	EPA 300.0	WETA/1460		
403515013	HTP-002	EPA 300.0	WETA/1460		
403515014	WBR-003	EPA 300.0	WETA/1460		
403515001	FBK-002	EPA 300.0	WETA/1461		
403515002	DUP-002	EPA 300.0	WETA/1461		
403515003	WLD-001 SE	EPA 300.0	WETA/1461		
403515004	WLD-001 NW	EPA 300.0	WETA/1461		
403515005	WLD-001	EPA 300.0	WETA/1461		
403515006	HMP-005	EPA 300.0	WETA/1461		
403515007	HMP-007	EPA 300.0	WETA/1461		
403515008	HMP-006	EPA 300.0	WETA/1461		
403515009	WLD-002	EPA 300.0	WETA/1461		
403515010	WLD-003	EPA 300.0	WETA/1461		
403515011	HMP-004	EPA 300.0	WETA/1461		
403515012	HTP-001	EPA 300.0	WETA/1461		
403515013	HTP-002	EPA 300.0	WETA/1461		
403515014	WBR-003	EPA 300.0	WETA/1461		
403515001	FBK-002	SM 2130B	WET/1411		
403515002	DUP-002	SM 2130B	WET/1411		
403515003	WLD-001 SE	SM 2130B	WET/1411		
403515004	WLD-001 NW	SM 2130B	WET/1411		
403515005	WLD-001	SM 2130B	WET/1411		
403515006	HMP-005	SM 2130B	WET/1411		
403515007	HMP-007	SM 2130B	WET/1411		
403515008	HMP-006	SM 2130B	WET/1411		
403515009	WLD-002	SM 2130B	WET/1411		
403515010	WLD-003	SM 2130B	WET/1411		
403515011	HMP-004	SM 2130B	WET/1411		
403515012	HTP-001	SM 2130B	WET/1411		
403515013	HTP-002	SM 2130B	WET/1411		
403515014	WBR-003	SM 2130B	WET/1411		
403515001	FBK-002	SM 2540C	WET/1412		
403515002	DUP-002	SM 2540C	WET/1412		
403515003	WLD-001 SE	SM 2540C	WET/1412		
403515004	WLD-001 NW	SM 2540C	WET/1412		
403515005	WLD-001	SM 2540C	WET/1412		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403515006	HMP-005	SM 2540C	WET/1412		
403515007	HMP-007	SM 2540C	WET/1412		
403515001	FBK-002	SM 2540D	WET/1422		
403515002	DUP-002	SM 2540D	WET/1422		
403515003	WLD-001 SE	SM 2540D	WET/1422		
403515004	WLD-001 NW	SM 2540D	WET/1422		
403515005	WLD-001	SM 2540D	WET/1422		
403515006	HMP-005	SM 2540D	WET/1422		
403515007	HMP-007	SM 2540D	WET/1422		
403515008	HMP-006	SM 2540D	WET/1422		
403515009	WLD-002	SM 2540D	WET/1422		
403515010	WLD-003	SM 2540D	WET/1422		
403515011	HMP-004	SM 2540D	WET/1422		
403515012	HTP-001	SM 2540D	WET/1422		
403515013	HTP-002	SM 2540D	WET/1422		
403515001	FBK-002	SM 4500-S F (2000)	WET/1424		
403515002	DUP-002	SM 4500-S F (2000)	WET/1424		
403515003	WLD-001 SE	SM 4500-S F (2000)	WET/1424		
403515004	WLD-001 NW	SM 4500-S F (2000)	WET/1424		
403515005	WLD-001	SM 4500-S F (2000)	WET/1424		
403515001	FBK-002	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515002	DUP-002	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515003	WLD-001 SE	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515004	WLD-001 NW	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515005	WLD-001	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515006	HMP-005	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515007	HMP-007	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515008	HMP-006	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515009	WLD-002	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515010	WLD-003	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515011	HMP-004	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515012	HTP-001	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515013	HTP-002	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515014	WBR-003	EPA 3020	MPRP/1292	EPA 6020	ICPM/1102
403515008	HMP-006	SM 2540C	WET/1425		
403515009	WLD-002	SM 2540C	WET/1425		
403515010	WLD-003	SM 2540C	WET/1425		
403515011	HMP-004	SM 2540C	WET/1425		
403515012	HTP-001	SM 2540C	WET/1425		
403515013	HTP-002	SM 2540C	WET/1425		
403515014	WBR-003	SM 2540C	WET/1425		
403515006	HMP-005	SM 4500-S F (2000)	WET/1432		
403515007	HMP-007	SM 4500-S F (2000)	WET/1432		
403515008	HMP-006	SM 4500-S F (2000)	WET/1432		
403515009	WLD-002	SM 4500-S F (2000)	WET/1432		
403515010	WLD-003	SM 4500-S F (2000)	WET/1432		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403515011	HMP-004	SM 4500-S F (2000)	WET/1432		
403515012	HTP-001	SM 4500-S F (2000)	WET/1432		
403515013	HTP-002	SM 4500-S F (2000)	WET/1432		
403515014	WBR-003	SM 4500-S F (2000)	WET/1432		
403515014	WBR-003	SM 2540D	WET/1442		
403515001	FBK-002	EPA 410.4	WETA/1493		
403515002	DUP-002	EPA 410.4	WETA/1493		
403515003	WLD-001 SE	EPA 410.4	WETA/1493		
403515004	WLD-001 NW	EPA 410.4	WETA/1493		
403515001	FBK-002	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515002	DUP-002	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515003	WLD-001 SE	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515004	WLD-001 NW	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515005	WLD-001	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515006	HMP-005	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515007	HMP-007	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515008	HMP-006	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515009	WLD-002	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515010	WLD-003	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515011	HMP-004	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515012	HTP-001	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515013	HTP-002	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403515001	FBK-002	EPA 350.1	WETA/1497		
403515002	DUP-002	EPA 350.1	WETA/1497		
403515003	WLD-001 SE	EPA 350.1	WETA/1497		
403515004	WLD-001 NW	EPA 350.1	WETA/1497		
403515005	WLD-001	EPA 350.1	WETA/1497		
403515006	HMP-005	EPA 350.1	WETA/1497		
403515007	HMP-007	EPA 350.1	WETA/1497		
403515008	HMP-006	EPA 350.1	WETA/1497		
403515009	WLD-002	EPA 350.1	WETA/1497		
403515010	WLD-003	EPA 350.1	WETA/1497		
403515011	HMP-004	EPA 350.1	WETA/1497		
403515012	HTP-001	EPA 350.1	WETA/1497		
403515014	WBR-003	EPA 1631E	CVFS/1074	EPA 1631E	CVFS/1075
403515005	WLD-001	EPA 410.4	WETA/1509		
403515006	HMP-005	EPA 410.4	WETA/1509		
403515007	HMP-007	EPA 410.4	WETA/1509		
403515008	HMP-006	EPA 410.4	WETA/1509		
403515009	WLD-002	EPA 410.4	WETA/1509		
403515010	WLD-003	EPA 410.4	WETA/1509		
403515011	HMP-004	EPA 410.4	WETA/1509		
403515012	HTP-001	EPA 410.4	WETA/1509		
403515013	HTP-002	EPA 410.4	WETA/1509		
403515014	WBR-003	EPA 410.4	WETA/1509		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403515001	FBK-002	EPA 335.4	WETA/1512		
403515002	DUP-002	EPA 335.4	WETA/1512		
403515003	WLD-001 SE	EPA 335.4	WETA/1512		
403515004	WLD-001 NW	EPA 335.4	WETA/1512		
403515005	WLD-001	EPA 335.4	WETA/1512		
403515006	HMP-005	EPA 335.4	WETA/1512		
403515007	HMP-007	EPA 335.4	WETA/1512		
403515008	HMP-006	EPA 335.4	WETA/1513		
403515009	WLD-002	EPA 335.4	WETA/1513		
403515010	WLD-003	EPA 335.4	WETA/1513		
403515011	HMP-004	EPA 335.4	WETA/1513		
403515012	HTP-001	EPA 335.4	WETA/1513		
403515013	HTP-002	EPA 335.4	WETA/1513		
403515014	WBR-003	EPA 335.4	WETA/1513		
403515001	FBK-002	SM 2320B	WET/1461		
403515002	DUP-002	SM 2320B	WET/1461		
403515003	WLD-001 SE	SM 2320B	WET/1461		
403515004	WLD-001 NW	SM 2320B	WET/1461		
403515005	WLD-001	SM 2320B	WET/1461		
403515006	HMP-005	SM 2320B	WET/1461		
403515007	HMP-007	SM 2320B	WET/1461		
403515008	HMP-006	SM 2320B	WET/1461		
403515009	WLD-002	SM 2320B	WET/1461		
403515010	WLD-003	SM 2320B	WET/1461		
403515011	HMP-004	SM 2320B	WET/1470		
403515012	HTP-001	SM 2320B	WET/1470		
403515013	HTP-002	SM 2320B	WET/1470		
403515014	WBR-003	SM 2320B	WET/1470		
403515013	HTP-002	EPA 350.1	WETA/1556		
403515014	WBR-003	EPA 350.1	WETA/1556		
403515001	FBK-002	SM 5310C	WETA/1601		
403515002	DUP-002	SM 5310C	WETA/1601		
403515003	WLD-001 SE	SM 5310C	WETA/1601		
403515004	WLD-001 NW	SM 5310C	WETA/1601		
403515005	WLD-001	SM 5310C	WETA/1601		
403515006	HMP-005	SM 5310C	WETA/1601		
403515007	HMP-007	SM 5310C	WETA/1601		
403515008	HMP-006	SM 5310C	WETA/1601		
403515009	WLD-002	SM 5310C	WETA/1601		
403515010	WLD-003	SM 5310C	WETA/1601		
403515011	HMP-004	SM 5310C	WETA/1601		
403515012	HTP-001	SM 5310C	WETA/1601		
403515013	HTP-002	SM 5310C	WETA/1601		
403515014	WBR-003	SM 5310C	WETA/1601		
403515001	FBK-002	SM 5310C	WETA/1608		
403515002	DUP-002	SM 5310C	WETA/1608		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT SURFACE WATERS
Pace Project No.: 403515

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403515003	**WLD-001 SE**	SM 5310C	WETA/1608		
403515004	**WLD-001 NW**	SM 5310C	WETA/1608		
403515005	**WLD-001**	SM 5310C	WETA/1608		
403515006	**HMP-005**	SM 5310C	WETA/1608		
403515007	**HMP-007**	SM 5310C	WETA/1608		
403515008	**HMP-006**	SM 5310C	WETA/1608		
403515009	**WLD-002**	SM 5310C	WETA/1608		
403515010	**WLD-003**	SM 5310C	WETA/1608		
403515011	**HMP-004**	SM 5310C	WETA/1608		
403515012	**HTP-001**	SM 5310C	WETA/1609		
403515013	**HTP-002**	SM 5310C	WETA/1609		
403515014	**WBR-003**	SM 5310C	WETA/1609		

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Waltz Mill Radiochemistry Lab
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Madison, PA 15663
Phone: 724.722.5214
Fax: 724.722.5208

May 23, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
403515 Foth & Van Dyke
Pace Project No. 08-2084

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received and logged in for analysis on May 9, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2084
CLIENT: 403515 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0805-0487	FBK002 (403515001)	0805-0488	DUP-002 (403515002)
0805-0489	WLD-001 SE (40351500	0805-0490	WLD-001 NW (40351500
0805-0491	WLD-001 (403515005)	0805-0492	HMP-005 (403515006)
0805-0493	HMP-007 (403515007)	0805-0494	HMP-006 (403515008)
0805-0495	WLD-002 (403515009)	0805-0496	WLD-003 (403515010)
0805-0497	HMP-004 (403515011)	0805-0498	HTP-001 (403515012)
0805-0499	HTP-002 (403515013)	0805-0500	WBR-003 (403515014)

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2084
Groundwater Characterization; 403515 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0805-0487	FBK002 (403515001)	(5/6/08)	05/22/08	-0.147 ± 0.352	(1.31)
0805-0488	DUP-002 (403515002)	(5/6/08)	05/22/08	0.347 ± 0.693	(1.60)
0805-0489	WLD-001 SE (403515003)	(5/6/08)	05/22/08	0.362 ± 0.804	(1.90)
0805-0490	WLD-001 NW (403515004)	(5/6/08)	05/22/08	0.107 ± 0.685	(1.83)
0805-0491	WLD-001 (403515005)	(5/6/08)	05/22/08	-0.230 ± 0.525	(1.83)
0805-0492	HMP-005 (403515006)	(5/6/08)	05/22/08	0.792 ± 0.942	(1.78)
0805-0493	HMP-007 (403515007)	(5/6/08)	05/22/08	1.04 ± 0.973	(1.70)
0805-0494	HMP-006 (403515008)	(5/6/08)	05/20/08	0.386 ± 0.659	(1.46)
0805-0495	WLD-002 (403515009)	(5/6/08)	05/20/08	-0.375 ± 0.587	(1.98)
0805-0496	WLD-003 (403515010)	(5/6/08)	05/20/08	-0.028 ± 0.504	(1.51)
0805-0497	HMP-004 (403515011)	(5/6/08)	05/20/08	2.58 ± 1.57	(2.15)
0805-0498	HTP-001 (403515012)	(5/6/08)	05/20/08	0.040 ± 0.573	(1.60)
0805-0499	HTP-002 (403515013)	(5/6/08)	05/20/08	-0.759 ± 0.567	(2.21)
0805-0500	WBR-003 (403515014)	(5/6/08)	05/20/08	0.153 ± 0.614	(1.61)
0805-0501	Method Blank	(5/9/08)	05/20/08	0.253 ± 0.565	(1.34)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Gross Beta EPA 900.0 pCi/L Analyzed	Act ± Unc	(MDC)
0805-0487	FBK002 (403515001)	(5/6/08)	05/22/08	0.387 ± 0.764	(1.76)
0805-0488	DUP-002 (403515002)	(5/6/08)	05/22/08	2.04 ± 1.09	(1.86)
0805-0489	WLD-001 SE (403515003)	(5/6/08)	05/22/08	3.80 ± 1.38	(1.80)
0805-0490	WLD-001 NW (403515004)	(5/6/08)	05/22/08	1.79 ± 1.07	(1.96)
0805-0491	WLD-001 (403515005)	(5/6/08)	05/22/08	2.13 ± 1.11	(1.91)
0805-0492	HMP-005 (403515006)	(5/6/08)	05/22/08	2.79 ± 1.21	(1.77)
0805-0493	HMP-007 (403515007)	(5/6/08)	05/22/08	2.37 ± 1.15	(1.83)
0805-0494	HMP-006 (403515008)	(5/6/08)	05/20/08	1.31 ± 0.972	(1.88)
0805-0495	WLD-002 (403515009)	(5/6/08)	05/20/08	1.51 ± 1.01	(1.94)
0805-0496	WLD-003 (403515010)	(5/6/08)	05/20/08	2.55 ± 1.16	(1.82)
0805-0497	HMP-004 (403515011)	(5/6/08)	05/20/08	5.49 ± 1.81	(2.31)
0805-0498	HTP-001 (403515012)	(5/6/08)	05/20/08	0.538 ± 0.769	(1.70)
0805-0499	HTP-002 (403515013)	(5/6/08)	05/20/08	1.83 ± 1.06	(1.94)
0805-0500	WBR-003 (403515014)	(5/6/08)	05/20/08	1.63 ± 1.07	(2.03)
0805-0501	Method Blank	(5/9/08)	05/20/08	2.17 ± 1.09	(1.79)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

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Quality Control Sample Performance Assessment

5/23/08

Test:	Gross Alpha
Analyst:	RMD
Date:	5/22/2008
Worklist:	16515
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.047
M/B Counting Uncertainty:	0.525
MB MDC:	1.458
MB Numerical Performance Indicator:	0.18
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	5/22/2008	5/22/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.335	93.335
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	52.546	47.716
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.911	4.612
Numerical Performance Indicator:	2.02	0.38
Percent Recovery:	112.60%	102.25%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16515
Duplicate Sample I.D.	LCSD16515
Sample Result (pCi/L, g, F):	52.546
Sample Result Counting Uncertainty (pCi/L, g, F):	4.911
Sample Duplicate Result (pCi/L, g, F):	47.716
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.612
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	1.405
Duplicate RPD:	9.63%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	4/30/2008
Sample I.D.	0805-0448
Sample MS I.D.	0805-0448MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.335
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	93.335
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.854
Sample Result:	-0.055
Sample Result Counting Uncertainty (pCi/L, g, F):	0.466
Sample Matrix Spike Result:	88.897
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	6.853
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-0.952
MSD Numerical Performance Indicator:	
MS Percent Recovery:	95.30%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

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Quality Control Sample Performance Assessment

5/23/08

Test:	Gross Beta
Analyst:	RMD
Date:	5/22/2008
Worklist:	16515
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.117
M/B Counting Uncertainty:	0.775
MB MDC:	1.878
MB Numerical Performance Indicator:	0.30
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	5/23/2008	5/23/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.517	39.517
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.758	19.758
Uncertainty (Calculated):	0.465	0.465
Result (pCi/L, g, F):	21.784	19.573
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.698	2.663
Numerical Performance Indicator:	1.45	-0.13
Percent Recovery:	110.25%	99.06%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16515
Duplicate Sample I.D.	LCSD16515
Sample Result (pCi/L, g, F):	21.784
Sample Result Counting Uncertainty (pCi/L, g, F):	2.698
Sample Duplicate Result (pCi/L, g, F):	19.573
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.663
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	1.143
Duplicate RPD:	10.69%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	4/30/2008
Sample I.D.	0805-0448
Sample MS I.D.	0805-0448MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.577
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.577
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.931
Sample Result:	0.061
Sample Result Counting Uncertainty (pCi/L, g, F):	0.802
Sample Matrix Spike Result:	43.731
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	3.746
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	2.035
MSD Numerical Performance Indicator:	
MS Percent Recovery:	110.34%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

0000007

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Quality Control Sample Performance Assessment

5/23/08

Test:	Gross Alpha
Analyst:	RMD
Date:	5/21/2008
Worklist:	16527
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.253
M/B Counting Uncertainty:	0.565
MB MDC:	1.340
MB Numerical Performance Indicator:	0.88
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	5/20/2008	5/20/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.335	93.335
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	49.014	49.208
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	10.129	10.230
Numerical Performance Indicator:	0.44	0.47
Percent Recovery:	105.03%	105.44%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS
Duplicate Sample I.D.	LCSD
Sample Result (pCi/L, g, F):	49.014
Sample Result Counting Uncertainty (pCi/L, g, F):	10.129
Sample Duplicate Result (pCi/L, g, F):	49.208
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	10.230
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.026
Duplicate RPD:	0.40%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	5/6/2008
Sample I.D.	0805-0494
Sample MS I.D.	0805-0494MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.335
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	93.335
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.854
Sample Result:	0.386
Sample Result Counting Uncertainty (pCi/L, g, F):	0.659
Sample Matrix Spike Result:	78.264
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	15.576
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-1.819
MSD Numerical Performance Indicator:	
MS Percent Recovery:	83.44%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

00000008

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Quality Control Sample Performance Assessment

5/23/08

Test:	Gross Beta
Analyst:	RMD
Date:	5/21/2008
Worklist:	16527
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	2.172
M/B Counting Uncertainty:	1.085
MB MDC:	1.785
MB Numerical Performance Indicator:	3.92
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	5/20/2008	5/20/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.525	39.525
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.762	19.762
Uncertainty (Calculated):	0.465	0.465
Result (pCi/L, g, F):	20.722	20.906
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.678	4.696
Numerical Performance Indicator:	0.40	0.47
Percent Recovery:	104.86%	105.79%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	5/6/2008
Sample I.D.	0805-0494
Sample MS I.D.	0805-0494MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.561
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.561
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.930
Sample Result:	1.313
Sample Result Counting Uncertainty (pCi/L, g, F):	0.972
Sample Matrix Spike Result:	40.918
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	8.314
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.010
MSD Numerical Performance Indicator:	
MS Percent Recovery:	100.11%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS
Duplicate Sample I.D.	LCSD
Sample Result (pCi/L, g, F):	20.722
Sample Result Counting Uncertainty (pCi/L, g, F):	4.678
Sample Duplicate Result (pCi/L, g, F):	20.906
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.696
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.054
Duplicate RPD:	0.88%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Pace Analytical Inter-Laboratory IRWO / Sub-COC

Inter-Laboratory Work Order # 403515

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 5/7	Sending Project No:	403515
Receiving Region:	Pace-PA	Receiving Project No:	08-2084
State of Sample Origin:	MI	Date IRWO / Sub-COC Prepared:	5/7/08
Sending Project Manager:	Tod Noltemeyer / Alee Her	REQUESTED COMPLETION DATE:	5/29/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL. NEED CUSTODIAL FILE ALSO		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	14	$ 60.00	$ 840.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 840.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 840.00	$ 672.00	$ 168.00
Total			$ 672.00	$ 168.00

Sub-COC

P = Poly
G = Glass
AG = Amber Glass

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Client Sample ID	Pace Lab Number	Collect Date/Time	Matrix	Method	Analyses: Gross Alpha/Beta 900				
FBK002 0805-0487	403515001	05/06/08	W		X				
DUP-002 0488	403515002	05/06/08	W		X				
WLD-001 SE 0489	403515003	05/06/08	W		X				
WLD-001 NW 0490	403515004	05/06/08	W		X				
WLD-001 0491	403515005	05/06/08	W		X				
HMP-005 0492	403515006	05/06/08	W		X				
HMP-007 0493	403515007	05/06/08	W		X				
HMP-006 0494	403515008	05/06/08	W		X				
WLD-002 0495	403515009	05/06/08	W		X				
WLD-003 0496	403515010	05/06/08	W		X				
HMP-004 0497	403515011	05/06/08	W		X				
HTP-001 0498	403515012	05/06/08	W		X				
HTP-002 0499	403515013	05/06/08	W		X				
WBR-003 0500	403515014	05/06/08	W		X				
MB- 0501									

0000009

Relinquished By: [signature] Date/Time: 5/8/08/1630 Received By: [signature] Date/Time: 1025

Relinquished By: Date/Time: Received By: [signature] Date/Time: 5/9/08

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson + Fothite Project # 403515

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other poly bags

Thermometer Used JB Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.0, 0.0, 1.0, 1.0, 0.5, 2.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 5-7-08 CJ

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. Nitrate/Nitrite/turbidity
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes	☐No	☐N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed CJ Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm).	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 5/7/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other $Zn\ NaOH$	Analysis Test (Y/N)	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 403515
1	FBk-002	001	WT	G			5/6/08	0920		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
2	DUP-002	002						—		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
3	WLD-001 SE	003						1015		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
4	WLD-001 NW	004						1040		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
5	WLD-001	005						1140		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
6	HMP-005	006						1220		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
7	HMP-007	007						1415		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
8	HMP-006	008						1315		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
9	WLD-002	009						1245		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
10	WLD-003	010						1040		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
11	HMP-004	011						1445		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
12	~~HMP-003~~ HTP-001	012						1615		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Temps: 1.0, 2.0, 0.0,	Richard Eagle / NJC	5/6/08	1830						
0.5, 0.0, 1.0	FedEx	5-7-08	10:00	Pace	5-7-08	10:00	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Chris Cordway, Richard Eagle, Curt Sheffield		
SIGNATURE of SAMPLER:	Richard R Eagle (Curt Sheffield)	DATE Signed (MM/DD/YY): 5/6/08	

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

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Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

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Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn NaOH	Analysis Test (Y/N)	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LHG	SULFIDE	DOC	AMMONIA, COD, TOC			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			N	N	N	N	N	N	N	Y	N			403515
1	HTP-002 013	WT	G			5/6/08	1430		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	
2	WBR-003 014	↓	↓			↓	0940		13	4	5	2		1			1		1	1	1	1	2	1	1	3	2			↓	MS/MSD volume 2 extra 4oz agC
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
MS/MSD collected at WBR-003	Richard Eagle / NJC	5/6/08	1830							
	Fed Ex	5-7-08	10:00	C. Pace	5-7-08	10:00		Y	N	4
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Carlson Richard Eagle for Curt Sheffield

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/6/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Batch No. 403472

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Lab ID	Sample ID	Matrix	Date Collected	Date Received
403472001	**MBR-001**	Water	05/05/08 12:00	05/06/08 10:00
403472002	**DUP-001**	Water	05/05/08 00:00	05/06/08 10:00
403472003	**FBK-001**	Water	05/05/08 11:30	05/06/08 10:00
403472004	**WBR-001**	Water	05/05/08 11:45	05/06/08 10:00
403472005	**WBR-002**	Water	05/05/08 13:05	05/06/08 10:00
403472006	**EBR-001**	Water	05/05/08 13:45	05/06/08 10:00
403472007	**MER-001**	Water	05/05/08 14:30	05/06/08 10:00
403472008	**MER-002**	Water	05/05/08 14:40	05/06/08 10:00
403472009	**MER-003**	Water	05/05/08 15:20	05/06/08 10:00

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SAMPLE ANALYTE COUNT

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
403472001	**MBR-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403472002	**DUP-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403472003	**FBK-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403472004	WBR-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403472005	WBR-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403472006	EBR-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403472007	MER-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403472008	MER-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G
403472009	MER-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	RRS	1	PASI-G
		EPA 6020	MES	26	PASI-G
		SM 2130B	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	CCR	1	PASI-G
		SM 5310C	CCR	1	PASI-G

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1496

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403469012,403472001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 27732)
  - Nitrogen, Ammonia
- MS (Lab ID: 27734)
  - Nitrogen, Ammonia

QC Batch: WETA/1497

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403515002,403515012

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 27738)
  - Nitrogen, Ammonia
- MS (Lab ID: 27740)
  - Nitrogen, Ammonia

R1: RPD value was outside control limits.

- MS (Lab ID: 27740)
  - Nitrogen, Ammonia
- MSD (Lab ID: 27741)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1493

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 403472008,403679001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 27391)
  - Chemical Oxygen Demand

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/1493

- MSD (Lab ID: 27392)
  - Chemical Oxygen Demand

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: June 04, 2008

General Information:
9 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: MBR-001 **Lab ID: 403472001** Collected: 05/05/08 12:00 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**3.21**	ng/L	0.50	0.16	1	05/11/08 06:00	05/13/08 10:51	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**73.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 18:21	7429-90-5	
Antimony	**0.26J**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 18:30	7440-36-0	
Arsenic	**0.75J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 18:21	7440-38-2	
Barium	**6.2**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 18:21	7440-39-3	
Beryllium	**0.070J**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 18:21	7440-41-7	
Boron	**13.5**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 18:21	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 18:21	7440-43-9	
Calcium	**5850**	ug/L	500	10.0	1	05/12/08 12:32	05/20/08 18:21	7440-70-2	
Chromium	**0.51J**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 18:21	7440-47-3	
Cobalt	**0.17J**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 18:21	7440-48-4	
Copper	**0.26J**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 18:21	7440-50-8	
Iron	**874**	ug/L	50.0	2.9	1	05/12/08 12:32	05/20/08 18:21	7439-89-6	
Lead	**0.27J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 18:21	7439-92-1	
Lithium	**0.70J**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 18:30	7439-93-2	
Magnesium	**2300**	ug/L	500	52.6	1	05/12/08 12:32	05/20/08 18:21	7439-95-4	
Manganese	**28.1**	ug/L	1.0	0.080	1	05/12/08 12:32	05/20/08 18:21	7439-96-5	
Molybdenum	**0.66J**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 18:21	7439-98-7	
Nickel	**1.0**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 18:21	7440-02-0	
Potassium	**991**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 18:21	7440-09-7	
Selenium	**0.81J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 18:30	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 18:21	7440-22-4	
Sodium	**6260**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 18:21	7440-23-5	
Thallium	**0.050J**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 18:21	7440-28-0	
Total Hardness	**24.1**	mg/L	5.0	0.15	1	05/12/08 12:32	05/20/08 18:21		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 18:21	7440-62-2	
Zinc	**5.6J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 18:21	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.7**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**15.5**	mg/L	10.0	3.2	1		05/14/08 15:25		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:25		
Alkalinity, Total as CaCO3	**15.5**	mg/L	10.0	3.2	1		05/14/08 15:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**86.0**	mg/L	20.0	12.0	1		05/08/08 13:08		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.0**	mg/L	1.0	0.31	1		05/08/08 12:07		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: MBR-001 **Lab ID: 403472001** Collected: 05/05/08 12:00 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.16J**	mg/L	0.40	0.085	1		05/06/08 19:30	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/06/08 23:59	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**13.0**	mg/L	5.0	1.1	1		05/06/08 19:30	16887-00-6	
Fluoride	**0.24J**	mg/L	0.50	0.059	1		05/06/08 19:30	16984-48-8	
Sulfate	**6.3**	mg/L	4.0	0.51	1		05/06/08 19:30	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:27	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:43	7664-41-7	M0
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**46.4J**	mg/L	50.0	10.8	1		05/13/08 08:22		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**15.2**	mg/L	2.0	1.4	1		05/27/08 12:45	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**15.5**	mg/L	2.0	1.4	1		06/02/08 10:27		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: DUP-001 **Lab ID: 403472002** Collected: 05/05/08 00:00 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.92**	ng/L	0.50	0.16	1	05/11/08 06:00	05/13/08 11:06	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**76.9**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 18:40	7429-90-5	
Antimony	**0.25J**	ug/L	1.0	0.10	1	05/12/08 12:32	05/29/08 18:48	7440-36-0	
Arsenic	**0.81J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 18:40	7440-38-2	
Barium	**6.2**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 18:40	7440-39-3	
Beryllium	**0.10J**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 18:40	7440-41-7	
Boron	**15.0**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 18:40	7440-42-8	
Cadmium	**0.10J**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 18:40	7440-43-9	
Calcium	**5900**	ug/L	500	10.0	1	05/12/08 12:32	05/20/08 18:40	7440-70-2	
Chromium	**3.2**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 18:40	7440-47-3	
Cobalt	**0.25J**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 18:40	7440-48-4	
Copper	**0.33J**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 18:40	7440-50-8	
Iron	**889**	ug/L	50.0	2.9	1	05/12/08 12:32	05/20/08 18:40	7439-89-6	
Lead	**0.29J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 18:40	7439-92-1	
Lithium	**0.47J**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 18:48	7439-93-2	
Magnesium	**2320**	ug/L	500	52.6	1	05/12/08 12:32	05/20/08 18:40	7439-95-4	
Manganese	**27.9**	ug/L	1.0	0.080	1	05/12/08 12:32	05/20/08 18:40	7439-96-5	
Molybdenum	**0.81J**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 18:40	7439-98-7	
Nickel	**1.7**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 18:40	7440-02-0	
Potassium	**1010**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 18:40	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 18:48	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 18:40	7440-22-4	
Sodium	**6300**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 18:40	7440-23-5	
Thallium	**0.080J**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 18:40	7440-28-0	
Total Hardness	**24.3**	mg/L	5.0	0.15	1	05/12/08 12:32	05/20/08 18:40		
Vanadium	**0.41J**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 18:40	7440-62-2	
Zinc	**6.4J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 18:40	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.7**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**15.5**	mg/L	10.0	3.2	1		05/14/08 15:26		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:26		
Alkalinity, Total as CaCO3	**15.5**	mg/L	10.0	3.2	1		05/14/08 15:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**80.0**	mg/L	20.0	12.0	1		05/08/08 13:09		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.90J**	mg/L	1.0	0.31	1		05/08/08 12:07		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: DUP-001 **Lab ID: 403472002** Collected: 05/05/08 00:00 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.15J**	mg/L	0.40	0.085	1		05/06/08 19:44	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/07/08 00:13	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.9**	mg/L	5.0	1.1	1		05/06/08 19:44	16887-00-6	
Fluoride	**0.24J**	mg/L	0.50	0.059	1		05/06/08 19:44	16984-48-8	
Sulfate	**6.3**	mg/L	4.0	0.51	1		05/06/08 19:44	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:27	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:47	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**57.6**	mg/L	50.0	10.8	1		05/13/08 08:22		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**14.5**	mg/L	2.0	1.4	1		05/27/08 13:14	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**15.9**	mg/L	2.0	1.4	1		06/02/08 10:50		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: FBK-001 **Lab ID: 403472003** Collected: 05/05/08 11:30 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.207J**	ng/L	0.50	0.16	1	05/11/08 06:00	05/13/08 11:14	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<4.4**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 17:52	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/12/08 12:32	05/20/08 17:52	7440-36-0	
Arsenic	**<0.093**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 17:52	7440-38-2	
Barium	**0.18J**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 17:52	7440-39-3	B
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 17:52	7440-41-7	
Boron	**3.4J**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 17:52	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 17:52	7440-43-9	
Calcium	**115J**	ug/L	500	10.0	1	05/12/08 12:32	05/20/08 17:52	7440-70-2	B
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 17:52	7440-47-3	
Cobalt	**<0.059**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 17:52	7440-48-4	
Copper	**<0.12**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 17:52	7440-50-8	
Iron	**7.8J**	ug/L	50.0	2.9	1	05/12/08 12:32	05/20/08 17:52	7439-89-6	B
Lead	**<0.044**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 17:52	7439-92-1	
Lithium	**<0.085**	ug/L	1.0	0.085	1	05/12/08 12:32	05/20/08 17:52	7439-93-2	
Magnesium	**<52.6**	ug/L	500	52.6	1	05/12/08 12:32	05/20/08 17:52	7439-95-4	
Manganese	**4.8**	ug/L	1.0	0.080	1	05/12/08 12:32	05/20/08 17:52	7439-96-5	B
Molybdenum	**<0.11**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 17:52	7439-98-7	
Nickel	**<0.074**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 17:52	7440-02-0	
Potassium	**33.8J**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 17:52	7440-09-7	
Selenium	**0.32J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 17:59	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 17:52	7440-22-4	
Sodium	**383J**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 17:52	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 17:52	7440-28-0	
Total Hardness	**0.45J**	mg/L	5.0	0.15	1	05/12/08 12:32	05/20/08 17:52		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 17:52	7440-62-2	
Zinc	**3.8J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 17:52	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:26		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:26		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		05/08/08 13:10		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		05/08/08 12:07		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: FBK-001 **Lab ID: 403472003** Collected: 05/05/08 11:30 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/06/08 19:58	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/07/08 00:27	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**<1.1**	mg/L	5.0	1.1	1		05/06/08 19:58	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		05/06/08 19:58	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		05/06/08 19:58	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:28	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:48	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		05/13/08 08:23		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		05/27/08 13:19	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		06/02/08 10:54		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: WBR-001 **Lab ID: 403472004** Collected: 05/05/08 11:45 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**7.53**	ng/L	0.50	0.16	1	05/11/08 06:00	05/13/08 11:25	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**179**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 18:52	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/12/08 12:32	05/20/08 18:52	7440-36-0	
Arsenic	**0.69J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 18:52	7440-38-2	
Barium	**8.8**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 18:52	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 18:52	7440-41-7	
Boron	**6.5J**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 18:52	7440-42-8	
Cadmium	**0.10J**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 18:52	7440-43-9	
Calcium	**3820**	ug/L	500	10.0	1	05/12/08 12:32	05/20/08 18:52	7440-70-2	
Chromium	**0.44J**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 18:52	7440-47-3	
Cobalt	**0.20J**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 18:52	7440-48-4	
Copper	**0.37J**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 18:52	7440-50-8	
Iron	**711**	ug/L	50.0	2.9	1	05/12/08 12:32	05/20/08 18:52	7439-89-6	
Lead	**0.51J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 18:52	7439-92-1	
Lithium	**0.54J**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 19:01	7439-93-2	
Magnesium	**1410**	ug/L	500	52.6	1	05/12/08 12:32	05/20/08 18:52	7439-95-4	
Manganese	**52.4**	ug/L	1.0	0.080	1	05/12/08 12:32	05/20/08 18:52	7439-96-5	
Molybdenum	**0.13J**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 18:52	7439-98-7	
Nickel	**0.52J**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 18:52	7440-02-0	
Potassium	**532**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 18:52	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 19:01	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 18:52	7440-22-4	
Sodium	**6560**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 18:52	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 18:52	7440-28-0	
Total Hardness	**15.4**	mg/L	5.0	0.15	1	05/12/08 12:32	05/20/08 18:52		
Vanadium	**0.82J**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 18:52	7440-62-2	
Zinc	**9.5J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 18:52	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.0**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:26		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:26		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**88.0**	mg/L	20.0	12.0	1		05/08/08 13:10		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.40J**	mg/L	1.0	0.31	1		05/08/08 12:07		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: WBR-001 **Lab ID: 403472004** Collected: 05/05/08 11:45 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.16J**	mg/L	0.40	0.085	1		05/06/08 20:12	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/07/08 00:42	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**15.5**	mg/L	5.0	1.1	1		05/06/08 20:12	16887-00-6	
Fluoride	**0.22J**	mg/L	0.50	0.059	1		05/06/08 20:12	16984-48-8	
Sulfate	**5.8**	mg/L	4.0	0.51	1		05/06/08 20:12	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:29	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:51	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**68.8**	mg/L	50.0	10.8	1		05/13/08 08:23		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**25.8**	mg/L	2.0	1.4	1		05/27/08 13:26	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**26.6**	mg/L	2.0	1.4	1		06/02/08 11:00		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: WBR-002 **Lab ID: 403472005** Collected: 05/05/08 13:05 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**3.07**	ng/L	0.50	0.16	1	05/11/08 06:00	05/13/08 11:52	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**77.3**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 18:58	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/12/08 12:32	05/20/08 18:58	7440-36-0	
Arsenic	**1.1**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 18:58	7440-38-2	
Barium	**7.7**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 18:58	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 18:58	7440-41-7	
Boron	**8.4J**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 18:58	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 18:58	7440-43-9	
Calcium	**5750**	ug/L	500	10.0	1	05/12/08 12:32	05/20/08 18:58	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 18:58	7440-47-3	
Cobalt	**0.17J**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 18:58	7440-48-4	
Copper	**0.47J**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 18:58	7440-50-8	
Iron	**2570**	ug/L	50.0	2.9	1	05/12/08 12:32	05/20/08 18:58	7439-89-6	
Lead	**0.15J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 18:58	7439-92-1	
Lithium	**0.48J**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 19:07	7439-93-2	
Magnesium	**2410**	ug/L	500	52.6	1	05/12/08 12:32	05/20/08 18:58	7439-95-4	
Manganese	**56.0**	ug/L	1.0	0.080	1	05/12/08 12:32	05/20/08 18:58	7439-96-5	
Molybdenum	**0.24J**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 18:58	7439-98-7	
Nickel	**1.2**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 18:58	7440-02-0	
Potassium	**1120**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 18:58	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/12/08 12:32	05/20/08 18:58	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 18:58	7440-22-4	
Sodium	**12600**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 18:58	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 18:58	7440-28-0	
Total Hardness	**24.3**	mg/L	5.0	0.15	1	05/12/08 12:32	05/20/08 18:58		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 18:58	7440-62-2	
Zinc	**6.3J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 18:58	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**8.5**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**11.1**	mg/L	10.0	3.2	1		05/14/08 15:27		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:27		
Alkalinity, Total as CaCO3	**11.1**	mg/L	10.0	3.2	1		05/14/08 15:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**110**	mg/L	20.0	12.0	1		05/08/08 13:11		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.6J**	mg/L	2.0	0.62	1		05/08/08 12:07		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: WBR-002 **Lab ID: 403472005** Collected: 05/05/08 13:05 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		05/06/08 20:26	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/07/08 00:56	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**28.9**	mg/L	5.0	1.1	1		05/06/08 20:26	16887-00-6	
Fluoride	**0.21J**	mg/L	0.50	0.059	1		05/06/08 20:26	16984-48-8	
Sulfate	**7.0**	mg/L	4.0	0.51	1		05/06/08 20:26	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:30	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:51	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**50.9**	mg/L	50.0	10.8	1		05/13/08 08:23		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**16.8**	mg/L	2.0	1.4	1		05/27/08 13:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**17.2**	mg/L	2.0	1.4	1		06/02/08 11:07		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: EBR-001 **Lab ID: 403472006** Collected: 05/05/08 13:45 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.89**	ng/L	0.50	0.16	1	05/11/08 06:00	05/13/08 11:53	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**29.6J**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 19:04	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/12/08 12:32	05/20/08 19:04	7440-36-0	
Arsenic	**0.77J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 19:04	7440-38-2	
Barium	**4.4**	ug/L	1.0	0.072	1	05/12/08 12:32	05/20/08 19:04	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 19:04	7440-41-7	
Boron	**11.2**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 19:04	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 19:04	7440-43-9	
Calcium	**7950**	ug/L	500	10.0	1	05/12/08 12:32	05/20/08 19:04	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 19:04	7440-47-3	
Cobalt	**<0.059**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 19:04	7440-48-4	
Copper	**<0.12**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 19:04	7440-50-8	
Iron	**546**	ug/L	50.0	2.9	1	05/12/08 12:32	05/20/08 19:04	7439-89-6	
Lead	**0.15J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 19:04	7439-92-1	
Lithium	**0.67J**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 19:13	7439-93-2	
Magnesium	**2960**	ug/L	500	52.6	1	05/12/08 12:32	05/20/08 19:04	7439-95-4	
Manganese	**11.6**	ug/L	1.0	0.080	1	05/12/08 12:32	05/20/08 19:04	7439-96-5	
Molybdenum	**0.56J**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 19:04	7439-98-7	
Nickel	**0.91J**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 19:04	7440-02-0	
Potassium	**1120**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 19:04	7440-09-7	
Selenium	**0.23J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/29/08 19:13	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 19:04	7440-22-4	
Sodium	**928**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 19:04	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 19:04	7440-28-0	
Total Hardness	**32.0**	mg/L	5.0	0.15	1	05/12/08 12:32	05/20/08 19:04		
Vanadium	**<0.41**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 19:04	7440-62-2	
Zinc	**4.6J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 19:04	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.1**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**28.9**	mg/L	10.0	3.2	1		05/14/08 15:27		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:27		
Alkalinity, Total as CaCO3	**28.9**	mg/L	10.0	3.2	1		05/14/08 15:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**58.0**	mg/L	20.0	12.0	1		05/08/08 13:12		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.80J**	mg/L	1.0	0.31	1		05/08/08 12:07		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: EBR-001 **Lab ID: 403472006** Collected: 05/05/08 13:45 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.19J**	mg/L	0.40	0.085	1		05/06/08 20:41	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/07/08 01:10	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		05/06/08 20:41	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		05/06/08 20:41	16984-48-8	
Sulfate	**5.3**	mg/L	4.0	0.51	1		05/06/08 20:41	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:30	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:52	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**30.8J**	mg/L	50.0	10.8	1		05/13/08 08:24		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**10**	mg/L	2.0	1.4	1		05/27/08 13:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**9.9**	mg/L	2.0	1.4	1		06/02/08 11:13		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: MER-001 **Lab ID: 403472007** Collected: 05/05/08 14:30 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**5.46**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 12:29	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**120**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 19:21	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/12/08 12:32	05/20/08 19:21	7440-36-0	
Arsenic	**0.43J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 19:21	7440-38-2	
Barium	**7.3**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 19:31	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 19:21	7440-41-7	
Boron	**5.2J**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 19:21	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 19:21	7440-43-9	
Calcium	**4280**	ug/L	500	10.0	1	05/12/08 12:32	05/29/08 19:31	7440-70-2	
Chromium	**<0.43**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 19:21	7440-47-3	
Cobalt	**0.12J**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 19:21	7440-48-4	
Copper	**0.30J**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 19:21	7440-50-8	
Iron	**380**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 19:31	7439-89-6	B
Lead	**0.14J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 19:21	7439-92-1	
Lithium	**0.31J**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 19:31	7439-93-2	
Magnesium	**1200**	ug/L	500	52.6	1	05/12/08 12:32	05/29/08 19:31	7439-95-4	
Manganese	**12.5**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 19:31	7439-96-5	
Molybdenum	**0.33J**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 19:21	7439-98-7	
Nickel	**0.49J**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 19:21	7440-02-0	
Potassium	**402J**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 19:21	7440-09-7	
Selenium	**<0.15**	ug/L	1.0	0.15	1	05/12/08 12:32	05/20/08 19:21	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 19:21	7440-22-4	
Sodium	**1160**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 19:21	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 19:21	7440-28-0	
Total Hardness	**15.6**	mg/L	5.0	0.15	1	05/12/08 12:32	05/29/08 19:31		
Vanadium	**0.60J**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 19:21	7440-62-2	
Zinc	**6.9J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 19:21	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.7**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**6.7J**	mg/L	10.0	3.2	1		05/14/08 15:27		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:27		
Alkalinity, Total as CaCO3	**6.7J**	mg/L	10.0	3.2	1		05/14/08 15:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**56.0**	mg/L	20.0	12.0	1		05/08/08 13:12		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.72J**	mg/L	1.0	0.32	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: MER-001 **Lab ID: 403472007** Collected: 05/05/08 14:30 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.21J**	mg/L	0.40	0.085	1		05/06/08 20:55	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/07/08 01:24	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.3J**	mg/L	5.0	1.1	1		05/06/08 20:55	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		05/06/08 20:55	16984-48-8	
Sulfate	**5.7**	mg/L	4.0	0.51	1		05/06/08 20:55	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:34	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:53	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**44.2J**	mg/L	50.0	10.8	1		05/13/08 08:24		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**15.1**	mg/L	2.0	1.4	1		05/27/08 13:51	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**19.6**	mg/L	2.0	1.4	1		06/02/08 11:43		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: MER-002 **Lab ID: 403472008** Collected: 05/05/08 14:40 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**5.80**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 12:34	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**126**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 19:27	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/12/08 12:32	05/20/08 19:27	7440-36-0	
Arsenic	**0.59J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 19:27	7440-38-2	
Barium	**6.4**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 19:37	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 19:27	7440-41-7	
Boron	**5.8J**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 19:27	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 19:27	7440-43-9	
Calcium	**3790**	ug/L	500	10.0	1	05/12/08 12:32	05/29/08 19:37	7440-70-2	
Chromium	**0.63J**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 19:27	7440-47-3	
Cobalt	**0.090J**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 19:27	7440-48-4	
Copper	**0.38J**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 19:27	7440-50-8	
Iron	**337**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 19:37	7439-89-6	B
Lead	**0.12J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 19:27	7439-92-1	
Lithium	**0.23J**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 19:37	7439-93-2	
Magnesium	**1090**	ug/L	500	52.6	1	05/12/08 12:32	05/29/08 19:37	7439-95-4	
Manganese	**10.9**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 19:37	7439-96-5	
Molybdenum	**0.15J**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 19:27	7439-98-7	
Nickel	**0.69J**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 19:27	7440-02-0	
Potassium	**436J**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 19:27	7440-09-7	
Selenium	**0.62J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/20/08 19:27	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 19:27	7440-22-4	
Sodium	**1740**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 19:27	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 19:27	7440-28-0	
Total Hardness	**13.9**	mg/L	5.0	0.15	1	05/12/08 12:32	05/29/08 19:37		
Vanadium	**0.55J**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 19:27	7440-62-2	
Zinc	**6.3J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 19:27	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.4**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**8.9J**	mg/L	10.0	3.2	1		05/14/08 15:28		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:28		
Alkalinity, Total as CaCO3	**8.9J**	mg/L	10.0	3.2	1		05/14/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**50.0**	mg/L	20.0	12.0	1		05/08/08 13:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.50J**	mg/L	1.0	0.31	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: MER-002 **Lab ID: 403472008** Collected: 05/05/08 14:40 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.21J**	mg/L	0.40	0.085	1		05/06/08 22:06	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/07/08 02:35	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.0J**	mg/L	5.0	1.1	1		05/06/08 22:06	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		05/06/08 22:06	16984-48-8	
Sulfate	**6.0**	mg/L	4.0	0.51	1		05/06/08 22:06	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:35	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:54	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**41.8J**	mg/L	52.6	11.3	1		05/13/08 08:25		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**14.8**	mg/L	2.0	1.4	1		05/27/08 13:57	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**15.1**	mg/L	2.0	1.4	1		06/02/08 12:23		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: MER-003 **Lab ID: 403472009** Collected: 05/05/08 15:20 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**5.62**	ng/L	0.50	0.16	1	05/11/08 11:00	05/13/08 12:43	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**116**	ug/L	50.0	4.4	1	05/12/08 12:32	05/20/08 19:33	7429-90-5	
Antimony	**<0.10**	ug/L	1.0	0.10	1	05/12/08 12:32	05/20/08 19:33	7440-36-0	
Arsenic	**0.52J**	ug/L	1.0	0.093	1	05/12/08 12:32	05/20/08 19:33	7440-38-2	
Barium	**7.0**	ug/L	1.0	0.072	1	05/12/08 12:32	05/29/08 19:43	7440-39-3	
Beryllium	**<0.070**	ug/L	1.0	0.070	1	05/12/08 12:32	05/20/08 19:33	7440-41-7	
Boron	**5.5J**	ug/L	10.0	1.1	1	05/12/08 12:32	05/20/08 19:33	7440-42-8	
Cadmium	**<0.098**	ug/L	1.0	0.098	1	05/12/08 12:32	05/20/08 19:33	7440-43-9	
Calcium	**4270**	ug/L	500	10.0	1	05/12/08 12:32	05/29/08 19:43	7440-70-2	
Chromium	**0.62J**	ug/L	1.0	0.43	1	05/12/08 12:32	05/20/08 19:33	7440-47-3	
Cobalt	**0.10J**	ug/L	1.0	0.059	1	05/12/08 12:32	05/20/08 19:33	7440-48-4	
Copper	**0.39J**	ug/L	1.0	0.12	1	05/12/08 12:32	05/20/08 19:33	7440-50-8	
Iron	**349**	ug/L	50.0	2.9	1	05/12/08 12:32	05/29/08 19:43	7439-89-6	B
Lead	**0.11J**	ug/L	1.0	0.044	1	05/12/08 12:32	05/20/08 19:33	7439-92-1	
Lithium	**0.24J**	ug/L	1.0	0.085	1	05/12/08 12:32	05/29/08 19:43	7439-93-2	
Magnesium	**1250**	ug/L	500	52.6	1	05/12/08 12:32	05/29/08 19:43	7439-95-4	
Manganese	**12.0**	ug/L	1.0	0.080	1	05/12/08 12:32	05/29/08 19:43	7439-96-5	
Molybdenum	**0.14J**	ug/L	10.0	0.11	1	05/12/08 12:32	05/20/08 19:33	7439-98-7	
Nickel	**0.85J**	ug/L	1.0	0.074	1	05/12/08 12:32	05/20/08 19:33	7440-02-0	
Potassium	**469J**	ug/L	500	6.2	1	05/12/08 12:32	05/20/08 19:33	7440-09-7	
Selenium	**0.17J**	ug/L	1.0	0.15	1	05/12/08 12:32	05/20/08 19:33	7782-49-2	
Silver	**<0.11**	ug/L	0.50	0.11	1	05/12/08 12:32	05/20/08 19:33	7440-22-4	
Sodium	**1920**	ug/L	500	46.0	1	05/12/08 12:32	05/20/08 19:33	7440-23-5	
Thallium	**<0.030**	ug/L	1.0	0.030	1	05/12/08 12:32	05/20/08 19:33	7440-28-0	
Total Hardness	**15.8**	mg/L	5.0	0.15	1	05/12/08 12:32	05/29/08 19:43		
Vanadium	**0.51J**	ug/L	1.0	0.41	1	05/12/08 12:32	05/20/08 19:33	7440-62-2	
Zinc	**6.4J**	ug/L	10.0	2.1	1	05/12/08 12:32	05/20/08 19:33	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.8**	NTU	1.0	0.44	1		05/07/08 09:00		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**6.7J**	mg/L	10.0	3.2	1		05/14/08 15:28		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		05/14/08 15:28		
Alkalinity, Total as CaCO3	**6.7J**	mg/L	10.0	3.2	1		05/14/08 15:28		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**54.0**	mg/L	20.0	12.0	1		05/08/08 13:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.60J**	mg/L	1.0	0.31	1		05/09/08 11:23		

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ANALYTICAL RESULTS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Sample: MER-003 **Lab ID: 403472009** Collected: 05/05/08 15:20 Received: 05/06/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		05/09/08 11:55		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.21J**	mg/L	0.40	0.085	1		05/06/08 22:20	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		05/07/08 02:49	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**4.5J**	mg/L	5.0	1.1	1		05/06/08 22:20	16887-00-6	
Fluoride	**0.23J**	mg/L	0.50	0.059	1		05/06/08 22:20	16984-48-8	
Sulfate	**6.9**	mg/L	4.0	0.51	1		05/06/08 22:20	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		05/19/08 14:38	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		05/14/08 12:54	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**44.2J**	mg/L	50.0	10.8	1		05/13/08 08:25		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**15.2**	mg/L	2.0	1.4	1		05/27/08 14:04	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**15.0**	mg/L	2.0	1.4	1		06/02/08 12:31		

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WETA/1452 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 24588
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 24589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.7	107	90-110	
Nitrite as N	mg/L	.8	0.81	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 24590 24591

Parameter	Units	403472007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.21J	1.6	1.6	1.8	1.8	97	98	90-110	.6	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.79	0.77	99	96	90-110	3	20	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WETA/1453 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 24600
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<1.1	5.0	
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	<0.51	4.0	

LABORATORY CONTROL SAMPLE: 24601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	
Fluoride	mg/L	2	2.2	110	90-110	
Sulfate	mg/L	16	17.0	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 24602 24603

Parameter	Units	403472007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.3J	20	20	22.8	22.8	98	98	90-110	.04	20	
Fluoride	mg/L	<0.059	2	2	2.2	2.2	108	108	90-110	.5	20	
Sulfate	mg/L	5.7	16	16	21.4	21.5	98	99	90-110	.5	20	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WET/1405 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 24859
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 24860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	534	534	100		

SAMPLE DUPLICATE: 24861

Parameter	Units	403472001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	1.7	1.7	2	5	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WET/1410 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006

METHOD BLANK: 24925
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 24926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	223	188	84	80-120	

SAMPLE DUPLICATE: 24927

Parameter	Units	403469006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	25.1	26.2	4	10	

SAMPLE DUPLICATE: 24928

Parameter	Units	403441001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	18.8	20.0	6	10	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WET/1412 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 25198
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	12.0J	20.0	

LABORATORY CONTROL SAMPLE: 25199

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1070	1070	100	80-120	

SAMPLE DUPLICATE: 25200

Parameter	Units	403469021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	92.0	6	10	

SAMPLE DUPLICATE: 25201

Parameter	Units	403515002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	60.0	60.0	0	10	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WET/1422 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 403472007, 403472008, 403472009

METHOD BLANK: 25590
Associated Lab Samples: 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 25591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	223	188	84	80-120	

SAMPLE DUPLICATE: 25592

Parameter	Units	403473001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	128	124	3	10	

SAMPLE DUPLICATE: 25593

Parameter	Units	403515003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	25.0	24.0	4	10	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WET/1424 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 25804
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE: 25805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	38	35.6	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 25806 25807

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.3	38	38	38.0	37.2	97	95	80-120	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: MPRP/1300 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 26652
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	<4.4	50.0	
Antimony	ug/L	<0.10	1.0	
Arsenic	ug/L	<0.093	1.0	
Barium	ug/L	0.13J	1.0	
Beryllium	ug/L	<0.070	1.0	
Boron	ug/L	<1.1	10.0	
Cadmium	ug/L	<0.098	1.0	
Calcium	ug/L	102J	500	
Chromium	ug/L	<0.43	1.0	
Cobalt	ug/L	<0.059	1.0	
Copper	ug/L	<0.12	1.0	
Iron	ug/L	25.0J	50.0	
Lead	ug/L	<0.044	1.0	
Lithium	ug/L	<0.085	1.0	
Magnesium	ug/L	<52.6	500	
Manganese	ug/L	0.45J	1.0	
Molybdenum	ug/L	<0.11	10.0	
Nickel	ug/L	<0.074	1.0	
Potassium	ug/L	<6.2	500	
Selenium	ug/L	<0.15	1.0	
Silver	ug/L	<0.11	0.50	
Sodium	ug/L	<46.0	500	
Thallium	ug/L	<0.030	1.0	
Vanadium	ug/L	<0.41	1.0	
Zinc	ug/L	5.4J	10.0	

LABORATORY CONTROL SAMPLE: 26653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9040	90	75-125	
Antimony	ug/L	200	203	102	75-125	
Arsenic	ug/L	200	204	102	75-125	
Barium	ug/L	200	201	101	75-125	
Beryllium	ug/L	200	193	96	75-125	
Boron	ug/L	200	183	92	75-125	
Cadmium	ug/L	200	200	100	75-125	
Calcium	ug/L	10000	10300	103	75-125	
Chromium	ug/L	200	201	101	75-125	
Cobalt	ug/L	200	196	98	75-125	
Copper	ug/L	200	199	100	75-125	
Iron	ug/L	10000	10400	104	75-125	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

LABORATORY CONTROL SAMPLE: 26653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	200	202	101	75-125	
Lithium	ug/L	200	205	102	75-125	
Magnesium	ug/L	10000	9350	94	75-125	
Manganese	ug/L	200	202	101	75-125	
Molybdenum	ug/L	200	196	98	75-125	
Nickel	ug/L	200	197	99	75-125	
Potassium	ug/L	10000	9450	94	75-125	
Selenium	ug/L	200	203	101	75-125	
Silver	ug/L	100	95.0	95	75-125	
Sodium	ug/L	10000	9210	92	75-125	
Thallium	ug/L	200	195	98	75-125	
Vanadium	ug/L	200	200	100	75-125	
Zinc	ug/L	200	199	99	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 26654 26655

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	73.4	10000	10000	9440	8950	94	89	75-125	5	20	
Antimony	ug/L	0.26J	200	200	207	198	104	99	75-125	5	20	
Arsenic	ug/L	0.75J	200	200	208	202	104	100	75-125	3	20	
Barium	ug/L	6.2	200	200	216	204	105	99	75-125	6	20	
Beryllium	ug/L	0.070J	200	200	195	186	98	93	75-125	5	20	
Boron	ug/L	13.5	200	200	196	190	91	88	75-125	3	20	
Cadmium	ug/L	<0.098	200	200	210	199	105	100	75-125	5	20	
Calcium	ug/L	5850	10000	10000	16600	15600	108	98	75-125	6	20	
Chromium	ug/L	0.51J	200	200	208	196	104	98	75-125	6	20	
Cobalt	ug/L	0.17J	200	200	202	192	101	96	75-125	5	20	
Copper	ug/L	0.26J	200	200	204	196	102	98	75-125	4	20	
Iron	ug/L	874	10000	10000	11400	10900	106	100	75-125	5	20	
Lead	ug/L	0.27J	200	200	209	203	104	101	75-125	3	20	
Lithium	ug/L	0.70J	200	200	201	200	100	100	75-125	.4	20	
Magnesium	ug/L	2300	10000	10000	11800	11300	95	90	75-125	5	20	
Manganese	ug/L	28.1	200	200	240	226	106	99	75-125	6	20	
Molybdenum	ug/L	0.66J	200	200	207	196	103	98	75-125	5	20	
Nickel	ug/L	1.0	200	200	205	195	102	97	75-125	5	20	
Potassium	ug/L	991	10000	10000	10800	10300	98	93	75-125	4	20	
Selenium	ug/L	0.81J	200	200	203	204	101	102	75-125	.8	20	
Silver	ug/L	<0.11	100	100	97.4	93.3	97	93	75-125	4	20	
Sodium	ug/L	6260	10000	10000	15800	14900	95	87	75-125	6	20	
Thallium	ug/L	0.050J	200	200	202	198	101	99	75-125	2	20	
Vanadium	ug/L	<0.41	200	200	207	196	103	98	75-125	5	20	
Zinc	ug/L	5.6J	200	200	203	195	99	95	75-125	4	20	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WETA/1493 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 27387
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 27388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	500	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27389 27390

Parameter	Units	403679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	67.7	526	526	587	587	99	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27391 27392

Parameter	Units	403472008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	41.8J	526	526	655	592	117	105	90-110	10	10	M0

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: CVFS/1070 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006

METHOD BLANK: 27605
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.359J	0.50	

METHOD BLANK: 27606
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 27607
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.292J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 27608 27609

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.51	5.06	110	101	79-121	9	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27610 27611

Parameter	Units	403469015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	7.54	20	20	26.3	27.5	94	100	75-125	5	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27612 27613

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	3.21	10	10	12.1	12.8	89	96	75-125	6	24	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: CVFS/1072 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 403472007, 403472008, 403472009

METHOD BLANK: 27614
Associated Lab Samples: 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.0283J	0.050	

METHOD BLANK: 27615
Associated Lab Samples: 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 27616
Associated Lab Samples: 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.264J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 27617 27618

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	4.83	4.96	97	99	79-121	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27619 27620

Parameter	Units	403472008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	5.80	20	20	25.9	23.4	101	88	75-125	10	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27621 27622

Parameter	Units	403472009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	5.62	20	20	24.5	23.7	94	90	75-125	3	24	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WETA/1496
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 403472001

METHOD BLANK: 27730
Associated Lab Samples: 403472001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 27731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27732 27733

Parameter	Units	403469012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	11.3	10.5	111	104	90-110	7	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27734 27735

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	11.2	10.8	111	107	90-110	3	20	M0

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WETA/1497 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 27736
Associated Lab Samples: 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 27737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27738 27739

Parameter	Units	403515002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	11.2	11.1	111	110	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27740 27741

Parameter	Units	403515012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	8.6	10.8	85	107	90-110	23	20	M0,R1

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WET/1454 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 28086
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 28087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	500	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28088 28089

Parameter	Units	403441001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	66.6	500	500	582	586	103	104	80-120	.8	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WETA/1512 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 28385
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 28386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.095	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28387 28388

Parameter	Units	403472008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.10	101	101	90-110	.2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 28389 28390

Parameter	Units	403515007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.10	101	102	90-110	.2	20	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WETA/1600 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 33091
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	95.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33093 33094

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	15.2	100	100	114	115	99	100	80-120	.9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33095 33096

Parameter	Units	403549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	7.4	100	100	107	107	100	100	80-120	.2	20	

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QUALITY CONTROL DATA

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

QC Batch: WETA/1608 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

METHOD BLANK: 33294
Associated Lab Samples: 403472001, 403472002, 403472003, 403472004, 403472005, 403472006, 403472007, 403472008, 403472009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 33295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33296 33297

Parameter	Units	403472001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	15.5	100	100	122	123	107	108	80-120	.9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 33638 33639

Parameter	Units	403515002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	5.8	100	100	109	109	103	103	80-120	.09	20	

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QUALIFIERS

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403472001	MBR-001	EPA 300.0	WETA/1452		
403472002	DUP-001	EPA 300.0	WETA/1452		
403472003	FBK-001	EPA 300.0	WETA/1452		
403472004	WBR-001	EPA 300.0	WETA/1452		
403472005	WBR-002	EPA 300.0	WETA/1452		
403472006	EBR-001	EPA 300.0	WETA/1452		
403472007	MER-001	EPA 300.0	WETA/1452		
403472008	MER-002	EPA 300.0	WETA/1452		
403472009	MER-003	EPA 300.0	WETA/1452		
403472001	MBR-001	EPA 300.0	WETA/1453		
403472002	DUP-001	EPA 300.0	WETA/1453		
403472003	FBK-001	EPA 300.0	WETA/1453		
403472004	WBR-001	EPA 300.0	WETA/1453		
403472005	WBR-002	EPA 300.0	WETA/1453		
403472006	EBR-001	EPA 300.0	WETA/1453		
403472007	MER-001	EPA 300.0	WETA/1453		
403472008	MER-002	EPA 300.0	WETA/1453		
403472009	MER-003	EPA 300.0	WETA/1453		
403472001	MBR-001	SM 2130B	WET/1405		
403472002	DUP-001	SM 2130B	WET/1405		
403472003	FBK-001	SM 2130B	WET/1405		
403472004	WBR-001	SM 2130B	WET/1405		
403472005	WBR-002	SM 2130B	WET/1405		
403472006	EBR-001	SM 2130B	WET/1405		
403472007	MER-001	SM 2130B	WET/1405		
403472008	MER-002	SM 2130B	WET/1405		
403472009	MER-003	SM 2130B	WET/1405		
403472001	MBR-001	SM 2540D	WET/1410		
403472002	DUP-001	SM 2540D	WET/1410		
403472003	FBK-001	SM 2540D	WET/1410		
403472004	WBR-001	SM 2540D	WET/1410		
403472005	WBR-002	SM 2540D	WET/1410		
403472006	EBR-001	SM 2540D	WET/1410		
403472001	MBR-001	SM 2540C	WET/1412		
403472002	DUP-001	SM 2540C	WET/1412		
403472003	FBK-001	SM 2540C	WET/1412		
403472004	WBR-001	SM 2540C	WET/1412		
403472005	WBR-002	SM 2540C	WET/1412		
403472006	EBR-001	SM 2540C	WET/1412		
403472007	MER-001	SM 2540C	WET/1412		
403472008	MER-002	SM 2540C	WET/1412		
403472009	MER-003	SM 2540C	WET/1412		
403472007	MER-001	SM 2540D	WET/1422		
403472008	MER-002	SM 2540D	WET/1422		
403472009	MER-003	SM 2540D	WET/1422		
403472001	MBR-001	SM 4500-S F (2000)	WET/1424		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403472002	DUP-001	SM 4500-S F (2000)	WET/1424		
403472003	FBK-001	SM 4500-S F (2000)	WET/1424		
403472004	WBR-001	SM 4500-S F (2000)	WET/1424		
403472005	WBR-002	SM 4500-S F (2000)	WET/1424		
403472006	EBR-001	SM 4500-S F (2000)	WET/1424		
403472007	MER-001	SM 4500-S F (2000)	WET/1424		
403472008	MER-002	SM 4500-S F (2000)	WET/1424		
403472009	MER-003	SM 4500-S F (2000)	WET/1424		
403472001	MBR-001	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472002	DUP-001	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472003	FBK-001	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472004	WBR-001	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472005	WBR-002	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472006	EBR-001	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472007	MER-001	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472008	MER-002	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472009	MER-003	EPA 3020	MPRP/1300	EPA 6020	ICPM/1101
403472001	MBR-001	EPA 410.4	WETA/1493		
403472002	DUP-001	EPA 410.4	WETA/1493		
403472003	FBK-001	EPA 410.4	WETA/1493		
403472004	WBR-001	EPA 410.4	WETA/1493		
403472005	WBR-002	EPA 410.4	WETA/1493		
403472006	EBR-001	EPA 410.4	WETA/1493		
403472007	MER-001	EPA 410.4	WETA/1493		
403472008	MER-002	EPA 410.4	WETA/1493		
403472009	MER-003	EPA 410.4	WETA/1493		
403472001	MBR-001	EPA 1631E	CVFS/1070	EPA 1631E	CVFS/1071
403472002	DUP-001	EPA 1631E	CVFS/1070	EPA 1631E	CVFS/1071
403472003	FBK-001	EPA 1631E	CVFS/1070	EPA 1631E	CVFS/1071
403472004	WBR-001	EPA 1631E	CVFS/1070	EPA 1631E	CVFS/1071
403472005	WBR-002	EPA 1631E	CVFS/1070	EPA 1631E	CVFS/1071
403472006	EBR-001	EPA 1631E	CVFS/1070	EPA 1631E	CVFS/1071
403472007	MER-001	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403472008	MER-002	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403472009	MER-003	EPA 1631E	CVFS/1072	EPA 1631E	CVFS/1073
403472001	MBR-001	EPA 350.1	WETA/1496		
403472002	DUP-001	EPA 350.1	WETA/1497		
403472003	FBK-001	EPA 350.1	WETA/1497		
403472004	WBR-001	EPA 350.1	WETA/1497		
403472005	WBR-002	EPA 350.1	WETA/1497		
403472006	EBR-001	EPA 350.1	WETA/1497		
403472007	MER-001	EPA 350.1	WETA/1497		
403472008	MER-002	EPA 350.1	WETA/1497		
403472009	MER-003	EPA 350.1	WETA/1497		
403472001	MBR-001	SM 2320B	WET/1454		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 08G001.13 SURFACE WATER
Pace Project No.: 403472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
403472002	DUP-001	SM 2320B	WET/1454		
403472003	FBK-001	SM 2320B	WET/1454		
403472004	WBR-001	SM 2320B	WET/1454		
403472005	WBR-002	SM 2320B	WET/1454		
403472006	EBR-001	SM 2320B	WET/1454		
403472007	MER-001	SM 2320B	WET/1454		
403472008	MER-002	SM 2320B	WET/1454		
403472009	MER-003	SM 2320B	WET/1454		
403472001	MBR-001	EPA 335.4	WETA/1512		
403472002	DUP-001	EPA 335.4	WETA/1512		
403472003	FBK-001	EPA 335.4	WETA/1512		
403472004	WBR-001	EPA 335.4	WETA/1512		
403472005	WBR-002	EPA 335.4	WETA/1512		
403472006	EBR-001	EPA 335.4	WETA/1512		
403472007	MER-001	EPA 335.4	WETA/1512		
403472008	MER-002	EPA 335.4	WETA/1512		
403472009	MER-003	EPA 335.4	WETA/1512		
403472001	MBR-001	SM 5310C	WETA/1600		
403472002	DUP-001	SM 5310C	WETA/1600		
403472003	FBK-001	SM 5310C	WETA/1600		
403472004	WBR-001	SM 5310C	WETA/1600		
403472005	WBR-002	SM 5310C	WETA/1600		
403472006	EBR-001	SM 5310C	WETA/1600		
403472007	MER-001	SM 5310C	WETA/1600		
403472008	MER-002	SM 5310C	WETA/1600		
403472009	MER-003	SM 5310C	WETA/1600		
403472001	MBR-001	SM 5310C	WETA/1608		
403472002	DUP-001	SM 5310C	WETA/1608		
403472003	FBK-001	SM 5310C	WETA/1608		
403472004	WBR-001	SM 5310C	WETA/1608		
403472005	WBR-002	SM 5310C	WETA/1608		
403472006	EBR-001	SM 5310C	WETA/1608		
403472007	MER-001	SM 5310C	WETA/1608		
403472008	MER-002	SM 5310C	WETA/1608		
403472009	MER-003	SM 5310C	WETA/1608		

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May 23, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
403472 Foth & Van Dyke
Pace Project No. 08-2071

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on May 8, 2008 and logged in for analysis on May 9, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS
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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2071
CLIENT: 403472 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0805-0430	MBR-001 (403472001)	0805-0431	DUP-001 (403472002)
0805-0432	FBK-001 (403472003)	0805-0433	WBR-001 (403472004)
0805-0434	WBR-002 (403472005)	0805-0435	EBR-001 (403472006)
0805-0436	MER-001 (403472007)	0805-0437	MER-002 (403472008)
0805-0438	MER-003 (403472009)		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2071
Groundwater Characterization; 403472 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Analyzed	Act ± Unc	(MDC)
0805-0430	MBR-001 (403472001)	(5/5/08)	05/21/08	0.171 ± 0.645	(1.66)
0805-0431	DUP-001 (403472002)	(5/5/08)	05/21/08	0.129 ± 0.867	(2.23)
0805-0432	FBK-001 (403472003)	(5/5/08)	05/21/08	1.26 ± 0.948	(1.47)
0805-0433	WBR-001 (403472004)	(5/5/08)	05/21/08	-0.205 ± 0.445	(1.56)
0805-0434	WBR-002 (403472005)	(5/5/08)	05/21/08	0.461 ± 0.706	(1.51)
0805-0435	EBR-001 (403472006)	(5/5/08)	05/21/08	0.422 ± 0.701	(1.54)
0805-0436	MER-001 (403472007)	(5/5/08)	05/21/08	0.569 ± 0.962	(2.16)
0805-0437	MER-002 (403472008)	(5/5/08)	05/21/08	-0.596 ± 0.818	(2.54)
0805-0438	MER-003 (403472009)	(5/5/08)	05/21/08	0.016 ± 0.511	(1.48)
0805-0439	Method Blank	(5/8/08)	05/21/08	-0.164 ± 0.344	(1.30)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Gross Beta EPA 900.0 pCi/L Analyzed	Act ± Unc	(MDC)
0805-0430	MBR-001 (403472001)	(5/5/08)	05/21/08	1.00 ± 0.855	(1.70)
0805-0431	DUP-001 (403472002)	(5/5/08)	05/21/08	1.69 ± 1.05	(1.94)
0805-0432	FBK-001 (403472003)	(5/5/08)	05/21/08	0.833 ± 0.966	(2.02)
0805-0433	WBR-001 (403472004)	(5/5/08)	05/21/08	-0.325 ± 0.880	(2.26)
0805-0434	WBR-002 (403472005)	(5/5/08)	05/21/08	1.37 ± 0.924	(1.70)
0805-0435	EBR-001 (403472006)	(5/5/08)	05/21/08	1.45 ± 0.974	(1.81)
0805-0436	MER-001 (403472007)	(5/5/08)	05/21/08	2.31 ± 1.12	(1.79)
0805-0437	MER-002 (403472008)	(5/5/08)	05/21/08	0.325 ± 0.784	(1.86)
0805-0438	MER-003 (403472009)	(5/5/08)	05/21/08	0.533 ± 0.840	(1.88)
0805-0439	Method Blank	(5/8/08)	05/21/08	0.141 ± 0.806	(1.96)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

0000005

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Quality Control Sample Performance Assessment

5/23/08

Test:	Gross Alpha
Analyst:	RMD
Date:	5/22/2008
Worklist:	16514
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.164
M/B Counting Uncertainty:	0.343
MB MDC:	1.303
MB Numerical Performance Indicator:	-0.94
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	5/22/2008	5/22/2008
Spike I.D.:	07-015	07-015
Spike Concentration (pCi/mL):	93.335	93.335
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	46.668	46.668
Uncertainty (Calculated):	2.927	2.927
Result (pCi/L, g, F):	44.304	50.169
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.587	4.771
Numerical Performance Indicator:	-0.85	1.23
Percent Recovery:	94.94%	107.50%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16514
Duplicate Sample I.D.	LCSD16514
Sample Result (pCi/L, g, F):	44.304
Sample Result Counting Uncertainty (pCi/L, g, F):	4.587
Sample Duplicate Result (pCi/L, g, F):	50.169
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.771
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-1.737
Duplicate RPD:	12.42%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	5/5/2008
Sample I.D.	0805-0430
Sample MS I.D.	0805-0430MS
Sample MSD I.D.	
Spike I.D.:	07-015
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	93.335
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	93.335
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.854
Sample Result:	0.171
Sample Result Counting Uncertainty (pCi/L, g, F):	0.644
Sample Matrix Spike Result:	95.016
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	6.948
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.325
MSD Numerical Performance Indicator:	
MS Percent Recovery:	101.62%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

0000006

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Quality Control Sample Performance Assessment

5/23/08

Test:	Gross Beta
Analyst:	RMD
Date:	5/22/2008
Worklist:	16514
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.141
M/B Counting Uncertainty:	0.806
MB MDC:	1.960
MB Numerical Performance Indicator:	0.34
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	5/22/2008	5/22/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.520	39.520
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.760	19.760
Uncertainty (Calculated):	0.465	0.465
Result (pCi/L, g, F):	22.471	21.635
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.746	2.757
Numerical Performance Indicator:	1.91	1.31
Percent Recovery:	113.72%	109.49%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16514
Duplicate Sample I.D.	LCSD16514
Sample Result (pCi/L, g, F):	22.471
Sample Result Counting Uncertainty (pCi/L, g, F):	2.746
Sample Duplicate Result (pCi/L, g, F):	21.635
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.757
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.421
Duplicate RPD:	3.79%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	5/5/2008
Sample I.D.	0805-0430
Sample MS I.D.	0805-0430MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.564
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.564
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.931
Sample Result:	1.003
Sample Result Counting Uncertainty (pCi/L, g, F):	0.835
Sample Matrix Spike Result:	40.969
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	3.651
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.204
MSD Numerical Performance Indicator:	
MS Percent Recovery:	101.02%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

Pace Analytical Inter-Laboratory IRWO / Sub-COC

Inter-Laboratory Work Order # 403472

IRWO

Sending Region / Original Receipt Date:	Pace-WI / 5/6	Sending Project No:	403472
Receiving Region:	Pace-PA	Receiving Project No:	08-2071
State of Sample Origin:	MI	Date IRWO / Sub-COC Prepared:	5/7/08
Sending Project Manager:	Tod Noltemeyer / Alee Her	REQUESTED COMPLETION DATE:	5/28/08
Consolidated IRWO:	NO	Return Samples to Sending Region:	No
External Client:	FOTH&VAN DYKE	Was Completion Date pre-approved by receiving lab:	No
QC Deliverable Needed:	QC2	Reportable Units Needed:	any
Work Type if not Analytical:	-	Report on a Wet Weight or Dry Weight Basis:	wet
Any Other Special Requirements: (All questions go to sending PM)	REPORT TO MDL. NEED CUSTODIAL FILE ALSO		

Test Requested	Quantity	Unit Price	Sub-Total 1	Test Requested	Quantity	Unit Price	Sub-Total 2
GROSS ALPHA & BETA	9	$ 60.00	$ 540.00				$ -
							$ -
			$ -				$ -

Total = Sub-Total 1 + Sub-Total 2: $ 540.00

Receiving Region Department	GL Accounting Code	Totals from above	Revenue Allocation: Receiving Region (80%)	Revenue Allocation: Client Services Sending Region (20%)
Microbiology	17		$ -	$ -
Metals	20		$ -	$ -
Wet Chemistry	21			
SV GCMS	30		$ -	$ -
SV GC & LC	31		$ -	$ -
V GC	33		$ -	$ -
V GCMS	34		$ -	$ -
Dioxin* (90/10 split)	35		$ -	$ -
Air	39		$ -	$ -
Other (Specify)	RAD	$ 540.00	$ 432.00	$ 108.00
Total			$ 432.00	$ 108.00

Sub-COC

P = Poly
G = Glass
AG = Amber Glass

Bottle Preservative	D				
Bottle Type	P				
Number of Bottles	1				

*Preservation Codes
A = None B = HCL C = H2SO4 D = HNO3 E = DI Water
F = Methanol G = NaOH H = Sodium Bisulfate I = Na2S2O3

Client Sample ID	Pace Lab Number	Collect Date/Time	Matrix	Method	Analyses: Gross Alpha/Beta 900				
MBR-001 0805-0430	403472001	05/05/08	W		X				
DUP-001 0431	403472002	05/05/08	W		X				
FBK-001 0432	403472003	05/05/08	W		X				
WBR-001 0433	403472004	05/05/08	W		X				
WBR-002 0434	403472005	05/05/08	W		X				
EBR-001 0435	403472006	05/05/08	W		X				
MER-001 0436	403472007	05/05/08	W		X				
MER-002 0437	403472008	05/05/08	W		X				
MER-003 0438	403472009	05/05/08	W		X				

Relinquished By: MB - 0439 Date/Time: Received By: Date/Time:

Relinquished By: Date/Time: Received By: Date/Time: 5/9/08 1025

Receipt Temperature =

Confirmation of Work Completed By Receiving PM: Date:

DISPOSITION of FORM: When work is completed, copy of Sub-COC/IRWO goes to ABM

BC013a (07June2006)

0000007

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson Project # 403472

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj. due date: Proj. name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☑ Other poly bags

Thermometer Used JTS Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 0.0, 0.5, 0.0, 0.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments: ABV

Date and Initials of person examining contents: 5-6-08 CG

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. Nitrate, Nitrite, turbidity
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes	☐No	☐N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed CG / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 5/6/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

AB ✓

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Nolterneyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other # Zn Ac Na_2O_4	Analysis Test (Y/N)	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MBR-001 001	WT	G			5/5/08	1200			4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	403472
2	DUP-001 002	WT	G				—			4	3	2		1			1		1	1	1	1	2	1	1	1	2		
3	FBK-001 003	OT	—				1130			4	3	2		1			1		1	1	1	1	2	1	1	1	2		
4	WBR-001 004	WT	G				1145			4	3	2		1			1		1	1	1	1	2	1	1	1	2		
5	WBR-002 005	WT	G				1305			4	3	2		1			1		1	1	1	1	2	1	1	1	2		
6	EBR-001 006	WT	G				1345			4	3	2		1			1		1	1	1	1	2	1	1	1	2		
7	MER-001 007	WT	G				1430			4	3	2		1			1		1	1	1	1	2	1	1	1	2		
8	MER-002 008	WT	G				1440			4	3	2		1			1		1	1	1	1	2	1	1	1	2		
9	MER-003 009	WT	G				1520			4	3	2		1			1		1	1	1	1	2	1	1	1	2		
10	MS 001	WT	G				1200										1												
11	MSD 001	WT	G				1200										1												
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Temps: 0.0, 0.5, 2.0, 0.0 0.0	Richard Eagle / NJC	5/5/08	1700	FED EX						
	FED EX	5/6/08	1000	Ashley Beckley	5/6/08	1000	0.0, 0.5, 2.0, 0.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Cartway Richard Eagle Curt Sheffield

SIGNATURE of SAMPLER: Richard Eagle Curt Sheffield DATE Signed (MM/DD/YY): 5/5/08

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

July 2008

Batch No. 405916

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone: 920.469.2436
Fax: 920.469.8827

July 31, 2008

Janis Kesy
Foth & Van Dyke
2737 South Ridge Road
Green Bay, WI 54304

Dear Ms. Kesy:

Enclosed is a report for the analysis of 41 surface water samples and associated QC samples for the Humboldt Mill project (06W003). These samples were received from July 2 to July 10, 2008. The samples were assigned to batch numbers 405916, 405944, 406074, 406127 and 406200 for laboratory tracking purposes.

A table of the results has also been sent to you via e-mail.

If you have any questions regarding this data please call me at (608) 232-3300.

Sincerely,

for Tod N.

Tod Noltemeyer
Project Manager

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

July 30, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL
Pace Project No.: 405916

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on July 02, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT MILL
Pace Project No.: 405916

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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Green Bay, WI 54302
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SAMPLE SUMMARY

Project: HUMBOLDT MILL
Pace Project No.: 405916

Lab ID	Sample ID	Matrix	Date Collected	Date Received
405916001	**WLD-002**	Water	07/01/08 13:35	07/02/08 10:10
405916002	**WLD-003**	Water	07/01/08 12:12	07/02/08 10:10
405916003	**FBK-001**	Water	07/01/08 15:20	07/02/08 10:10
405916004	**DUP-001**	Water	07/01/08 00:00	07/02/08 10:10
405916005	**HTP-001**	Water	07/01/08 15:45	07/02/08 10:10

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Green Bay, WI 54302
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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 405916

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
405916001	WLD-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405916002	WLD-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405916003	FBK-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405916004	DUP-001	EPA 1631E	GMW	1	PASI-G

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 405916

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405916005	**HTP-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1772

R1: RPD value was outside control limits.

- DUP (Lab ID: 48433)
  - Turbidity

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1788

R1: RPD value was outside control limits.

- DUP (Lab ID: 49535)
  - Total Dissolved Solids
- DUP (Lab ID: 49536)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1787

R1: RPD value was outside control limits.

- DUP (Lab ID: 49320)
  - Total Suspended Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1871

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 405916001

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 48505)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1872

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 405916001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 48514)
  - Chloride
  - Sulfate
- MSD (Lab ID: 48515)
  - Chloride
  - Fluoride
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1942

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 405944004,406074002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 52052)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
5 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405916

Sample: WLD-002 **Lab ID: 405916001** Collected: 07/01/08 13:35 Received: 07/02/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.68**	ng/L	0.50	0.16	1	07/03/08 11:40	07/14/08 11:04	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.9**	NTU	1.0	0.44	1		07/03/08 11:27		R1
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**17.6**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**17.6**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**40.0**	mg/L	20.0	12.0	1		07/08/08 12:21		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.2**	mg/L	2.0	0.62	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/02/08 21:17	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/03/08 00:50	14797-65-0	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		07/02/08 21:17	16887-00-6	M0
Fluoride	**0.19J**	mg/L	0.50	0.059	1		07/02/08 21:17	16984-48-8	M0
Sulfate	**2.7J**	mg/L	4.0	0.51	1		07/02/08 21:17	14808-79-8	B,M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/08/08 15:41	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/09/08 15:11	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**33.0J**	mg/L	50.0	10.8	1		07/07/08 14:39		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**12.1**	mg/L	2.0	1.4	1		07/14/08 16:45	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**11.2**	mg/L	2.0	1.4	1		07/11/08 14:08		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405916

Sample: WLD-003 **Lab ID: 405916002** Collected: 07/01/08 12:12 Received: 07/02/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.39**	ng/L	0.50	0.16	1	07/03/08 11:40	07/14/08 11:09	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.7**	NTU	1.0	0.44	1		07/03/08 11:27		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**17.6**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**17.6**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**42.0**	mg/L	20.0	12.0	1		07/08/08 12:22		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.4**	mg/L	2.0	0.62	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/02/08 22:00	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/03/08 01:32	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5J**	mg/L	5.0	1.1	1		07/02/08 22:00	16887-00-6	
Fluoride	**0.20J**	mg/L	0.50	0.059	1		07/02/08 22:00	16984-48-8	
Sulfate	**4.8**	mg/L	4.0	0.51	1		07/02/08 22:00	14808-79-8	B
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:05	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/09/08 15:11	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**30.1J**	mg/L	52.6	11.3	1		07/07/08 14:39		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.1**	mg/L	2.0	1.4	1		07/14/08 17:05	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**9.3**	mg/L	2.0	1.4	1		07/11/08 14:39		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405916

Sample: FBK-001 **Lab ID: 405916003** Collected: 07/01/08 15:20 Received: 07/02/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.660**	ng/L	0.50	0.16	1	07/03/08 11:40	07/14/08 11:16	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		07/03/08 11:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		07/08/08 12:22		R1
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.19J**	mg/L	0.40	0.085	1		07/02/08 22:14	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/03/08 01:47	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		07/02/08 22:14	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		07/02/08 22:14	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		07/02/08 22:14	14808-79-8	B
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:06	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/09/08 15:12	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		07/14/08 17:10	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		07/11/08 14:44		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405916

Sample: DUP-001 **Lab ID: 405916004** Collected: 07/01/08 00:00 Received: 07/02/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.32**	ng/L	0.50	0.16	1	07/03/08 11:40	07/14/08 11:19	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.9**	NTU	1.0	0.44	1		07/03/08 11:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**48.4**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**48.4**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**76.0**	mg/L	20.0	12.0	1		07/08/08 12:23		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.5**	mg/L	1.0	0.31	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/02/08 22:28	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/03/08 02:01	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3J**	mg/L	5.0	1.1	1		07/02/08 22:28	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		07/02/08 22:28	16984-48-8	
Sulfate	**12.7**	mg/L	4.0	0.51	1		07/02/08 22:28	14808-79-8	B
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:07	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/09/08 15:13	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**35.3J**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.9**	mg/L	2.0	1.4	1		07/14/08 17:15	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**6.0**	mg/L	2.0	1.4	1		07/11/08 14:49		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405916

Sample: HTP-001 **Lab ID: 405916005** Collected: 07/01/08 15:45 Received: 07/02/08 10:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.73**	ng/L	0.50	0.16	1	07/03/08 11:40	07/15/08 10:44	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.1**	NTU	1.0	0.44	1		07/03/08 11:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**48.4**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**48.4**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**68.0**	mg/L	20.0	12.0	1		07/08/08 12:24		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.0**	mg/L	1.0	0.31	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/02/08 23:11	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/03/08 02:15	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		07/02/08 23:11	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		07/02/08 23:11	16984-48-8	
Sulfate	**12.7**	mg/L	4.0	0.51	1		07/02/08 23:11	14808-79-8	B
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:07	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:13	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**30.8J**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.5**	mg/L	2.0	1.4	1		07/14/08 17:23	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.0**	mg/L	2.0	1.4	1		07/11/08 14:54		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WET/1772 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 48431
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 48432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	534	537	101		

SAMPLE DUPLICATE: 48433

Parameter	Units	405916001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	2.9	3.1	9	5	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1871 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 48502
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 48503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.5	96	90-110	
Nitrite as N	mg/L	.8	0.77	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 48504 48505

Parameter	Units	405916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.085	1.6	1.6	1.5	1.5	94	95	90-110	1	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.72	0.70	90	88	90-110	3	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1872 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 48512
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<1.1	5.0	
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	2.7J	4.0	

LABORATORY CONTROL SAMPLE: 48513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.1	95	90-110	
Fluoride	mg/L	2	2.0	98	90-110	
Sulfate	mg/L	16	15.7	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 48514 48515

Parameter	Units	405916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.2J	20	20	18.7	18.8	82	83	90-110	.4	20	M0
Fluoride	mg/L	0.19J	2	2	2.0	2.0	92	88	90-110	4	20	M0
Sulfate	mg/L	2.7J	16	16	16.4	16.5	86	86	90-110	.9	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WET/1781 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 49091
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE: 49092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	41.2	42.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49093 49094

Parameter	Units	1075945001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	41.2	41.2	42.8	42.8	101	101	80-120	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1885 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 405916001, 405916002

METHOD BLANK: 49166
Associated Lab Samples: 405916001, 405916002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 49167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	502	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49168 49169

Parameter	Units	405862010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	55.9	526	526	590	608	101	105	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49170 49171

Parameter	Units	405916002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	30.1J	526	526	571	580	103	105	90-110	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WET/1787 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 49317
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 49318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	310	282	91	80-120	

SAMPLE DUPLICATE: 49319

Parameter	Units	405944002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4.2	4.5	6	10	

SAMPLE DUPLICATE: 49320

Parameter	Units	405944009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	16.0	18.0	12	10	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1894
QC Batch Method: EPA 335.4
Associated Lab Samples: 405916001

Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total

METHOD BLANK: 49451
Associated Lab Samples: 405916001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 49452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.093	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49453 49454

Parameter	Units	405697004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.036	.6	.6	0.59	0.63	95	100	90-110	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49455 49456

Parameter	Units	405916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	105	108	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WET/1788 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 49533
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	

LABORATORY CONTROL SAMPLE: 49534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1060	1040	98	80-120	

SAMPLE DUPLICATE: 49535

Parameter	Units	405906001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	18.0J	<12.0	77	10	R1

SAMPLE DUPLICATE: 49536

Parameter	Units	405916003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<12.0	<12.0	120	10	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WET/1791 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 49615
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 49616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49617 49618

Parameter	Units	405755001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.2	500	500	521	521	102	102	80-120	0	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1903 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004

METHOD BLANK: 50029
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 50030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.1	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50031 50032

Parameter	Units	405755001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	9.7	10.1	97	100	90-110	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50033 50034

Parameter	Units	405916004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.4	10.3	103	102	90-110	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1919 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 405916003, 405916004, 405916005

METHOD BLANK: 50800
Associated Lab Samples: 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 50801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	518	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50802 50803

Parameter	Units	405944007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	138	526	526	674	674	102	102	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50804 50805

Parameter	Units	406127008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	58.3	526	526	601	604	103	104	90-110	.4	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1920 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 50853
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 50854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50855 50856

Parameter	Units	405916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	11.2	100	100	122	121	111	110	80-120	.7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50857 50858

Parameter	Units	405944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<1.4	100	100	113	113	113	113	80-120	.2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1922 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 50870
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 50871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	97.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50872 50873

Parameter	Units	1076067001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	15.1	100	100	129	129	113	114	80-120	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50874 50875

Parameter	Units	405916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	12.1	100	100	129	129	117	117	80-120	.5	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1923
QC Batch Method: EPA 350.1
Associated Lab Samples: 405916005

Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled

METHOD BLANK: 50888
Associated Lab Samples: 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 50889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50890 50891

Parameter	Units	405916005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.4	10.5	104	105	90-110	.7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50892 50893

Parameter	Units	405971001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.2	10	100	97	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: CVFS/1134 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004

METHOD BLANK: 51782
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.400J	0.50	

METHOD BLANK: 51783
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.240J	0.50	

METHOD BLANK: 51784
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.180J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 51785 51786

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.27	5.41	105	108	79-121	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51787 51788

Parameter	Units	405916002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.39	5	5	6.43	6.61	101	104	75-125	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51789 51790

Parameter	Units	405923003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.53	5	5	6.99	6.55	109	100	75-125	7	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: WETA/1942 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 52048
Associated Lab Samples: 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 52049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52050 52051

Parameter	Units	405944004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	102	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52052 52053

Parameter	Units	406074002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.12	0.11	111	102	90-110	8	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405916

QC Batch: CVFS/1140 | Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E | Analysis Description: 1631E Mercury
Associated Lab Samples: 405916005

METHOD BLANK: 52102
Associated Lab Samples: 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 52103
Associated Lab Samples: 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.475J	0.50	

METHOD BLANK: 52104
Associated Lab Samples: 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.203J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 52105 52106

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.28	5.38	106	108	79-121	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52107 52108

Parameter	Units	405944004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	4.75	20	20	25.8	20.5	105	79	75-125	23	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52109 52110

Parameter	Units	405944005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	10.3	20	20	28.3	30.6	90	101	75-125	8	24	

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QUALIFIERS

Project: HUMBOLDT MILL
Pace Project No.: 405916

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405916001	WLD-002	SM 2130B	WET/1772		
405916002	WLD-003	SM 2130B	WET/1772		
405916003	FBK-001	SM 2130B	WET/1772		
405916004	DUP-001	SM 2130B	WET/1772		
405916005	HTP-001	SM 2130B	WET/1772		
405916001	WLD-002	EPA 300.0	WETA/1871		
405916002	WLD-003	EPA 300.0	WETA/1871		
405916003	FBK-001	EPA 300.0	WETA/1871		
405916004	DUP-001	EPA 300.0	WETA/1871		
405916005	HTP-001	EPA 300.0	WETA/1871		
405916001	WLD-002	EPA 300.0	WETA/1872		
405916002	WLD-003	EPA 300.0	WETA/1872		
405916003	FBK-001	EPA 300.0	WETA/1872		
405916004	DUP-001	EPA 300.0	WETA/1872		
405916005	HTP-001	EPA 300.0	WETA/1872		
405916001	WLD-002	SM 4500-S F (2000)	WET/1781		
405916002	WLD-003	SM 4500-S F (2000)	WET/1781		
405916003	FBK-001	SM 4500-S F (2000)	WET/1781		
405916004	DUP-001	SM 4500-S F (2000)	WET/1781		
405916005	HTP-001	SM 4500-S F (2000)	WET/1781		
405916001	WLD-002	EPA 410.4	WETA/1885		
405916002	WLD-003	EPA 410.4	WETA/1885		
405916001	WLD-002	SM 2540D	WET/1787		
405916002	WLD-003	SM 2540D	WET/1787		
405916003	FBK-001	SM 2540D	WET/1787		
405916004	DUP-001	SM 2540D	WET/1787		
405916005	HTP-001	SM 2540D	WET/1787		
405916001	WLD-002	EPA 335.4	WETA/1894		
405916001	WLD-002	SM 2540C	WET/1788		
405916002	WLD-003	SM 2540C	WET/1788		
405916003	FBK-001	SM 2540C	WET/1788		
405916004	DUP-001	SM 2540C	WET/1788		
405916005	HTP-001	SM 2540C	WET/1788		
405916001	WLD-002	SM 2320B	WET/1791		
405916002	WLD-003	SM 2320B	WET/1791		
405916003	FBK-001	SM 2320B	WET/1791		
405916004	DUP-001	SM 2320B	WET/1791		
405916005	HTP-001	SM 2320B	WET/1791		
405916001	WLD-002	EPA 350.1	WETA/1903		
405916002	WLD-003	EPA 350.1	WETA/1903		
405916003	FBK-001	EPA 350.1	WETA/1903		
405916004	DUP-001	EPA 350.1	WETA/1903		
405916003	FBK-001	EPA 410.4	WETA/1919		
405916004	DUP-001	EPA 410.4	WETA/1919		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 405916

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405916005	**HTP-001**	EPA 410.4	WETA/1919		
405916001	**WLD-002**	SM 5310C	WETA/1920		
405916002	**WLD-003**	SM 5310C	WETA/1920		
405916003	**FBK-001**	SM 5310C	WETA/1920		
405916004	**DUP-001**	SM 5310C	WETA/1920		
405916005	**HTP-001**	SM 5310C	WETA/1920		
405916001	**WLD-002**	SM 5310C	WETA/1922		
405916002	**WLD-003**	SM 5310C	WETA/1922		
405916003	**FBK-001**	SM 5310C	WETA/1922		
405916004	**DUP-001**	SM 5310C	WETA/1922		
405916005	**HTP-001**	SM 5310C	WETA/1922		
405916005	**HTP-001**	EPA 350.1	WETA/1923		
405916001	**WLD-002**	EPA 1631E	CVFS/1134	EPA 1631E	CVFS/1135
405916002	**WLD-003**	EPA 1631E	CVFS/1134	EPA 1631E	CVFS/1135
405916003	**FBK-001**	EPA 1631E	CVFS/1134	EPA 1631E	CVFS/1135
405916004	**DUP-001**	EPA 1631E	CVFS/1134	EPA 1631E	CVFS/1135
405916002	**WLD-003**	EPA 335.4	WETA/1942		
405916003	**FBK-001**	EPA 335.4	WETA/1942		
405916004	**DUP-001**	EPA 335.4	WETA/1942		
405916005	**HTP-001**	EPA 335.4	WETA/1942		
405916005	**HTP-001**	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141

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July 29, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
405916 Foth & Van Dyke
Pace Project No. 08-2923

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on July 9, 2008 and logged in for analysis on July 10, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

cc: Alee Her

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2923
CLIENT: 405916 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0807-0533	WLD-002 (405916001)	0807-0534	WLD-003 (405916002)
0807-0535	FBK-001 (405916003)	0807-0536	DUP-001 (405916004)
0807-0537	HTP-001 (405916005)		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2923
Groundwater Characterization; 405916 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0533	WLD-002 (405916001)	(7/1/08)	07/29/08	0.267 ± 0.620	(1.48)
0807-0534	WLD-003 (405916002)	(7/1/08)	07/29/08	0.648 ± 0.780	(1.54)
0807-0535	FBK-001 (405916003)	(7/1/08)	07/29/08	0.235 ± 0.599	(1.46)
0807-0536	DUP-001 (405916004)	(7/1/08)	07/29/08	1.03 ± 1.08	(2.14)
0807-0537	HTP-001 (405916005)	(7/1/08)	07/29/08	1.05 ± 0.975	(1.76)
0807-0538	Method Blank	(7/9/08)	07/29/08	-0.414 ± 0.375	(1.62)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0533	WLD-002 (405916001)	(7/1/08)	07/29/08	1.59 ± 0.958	(1.70)
0807-0534	WLD-003 (405916002)	(7/1/08)	07/29/08	1.09 ± 0.852	(1.62)
0807-0535	FBK-001 (405916003)	(7/1/08)	07/29/08	0.307 ± 0.670	(1.54)
0807-0536	DUP-001 (405916004)	(7/1/08)	07/29/08	1.45 ± 0.990	(1.82)
0807-0537	HTP-001 (405916005)	(7/1/08)	07/29/08	2.13 ± 1.11	(1.83)
0807-0538	Method Blank	(7/9/08)	07/29/08	0.228 ± 0.714	(1.72)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

QA Assessment Spreadsheet
PACE Analytical Services
Waltz Mill Laboratory

Quality Control Sample Performance Assessment

7/29/08

Test:	Gross Alpha
Analyst:	RMD
Date:	7/28/2008
Worklist:	16770
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.414
M/B Counting Uncertainty:	0.368
MB MDC:	1.616
MB Numerical Performance Indicator:	-2.21
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/29/2008	7/29/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	44.332	42.242
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	3.897	3.806
Numerical Performance Indicator:	-0.65	-1.54
Percent Recovery:	96.59%	92.04%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16770
Duplicate Sample I.D.	LCSD16770
Sample Result (pCi/L, g, F):	44.332
Sample Result Counting Uncertainty (pCi/L, g, F):	3.897
Sample Duplicate Result (pCi/L, g, F):	42.242
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.806
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.752
Duplicate RPD:	4.83%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	6/25/2008
Sample I.D.	0807-0523
Sample MS I.D.	0807-0523MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	91.795
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.398
Sample Result:	9.951
Sample Result Counting Uncertainty (pCi/L, g, F):	2.928
Sample Matrix Spike Result:	94.327
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	10.173
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-1.224
MSD Numerical Performance Indicator:	
MS Percent Recovery:	91.92%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

0065

QA Assessment Spreadsheet
PACE Analytical Services
Waltz Mill Laboratory

Quality Control Sample Performance Assessment

7/29/08

Test:	Gross Beta
Analyst:	RMD
Date:	7/28/2008
Worklist:	16770
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.228
M/B Counting Uncertainty:	0.713
MB MDC:	1.722
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/29/2008	7/29/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.343	39.343
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.671	19.671
Uncertainty (Calculated):	0.463	0.463
Result (pCi/L, g, F):	18.592	20.186
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.191	2.257
Numerical Performance Indicator:	-0.94	0.44
Percent Recovery:	94.51%	102.62%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16770
Duplicate Sample I.D.	LCSD16770
Sample Result (pCi/L, g, F):	18.592
Sample Result Counting Uncertainty (pCi/L, g, F):	2.191
Sample Duplicate Result (pCi/L, g, F):	20.186
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.257
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.993
Duplicate RPD:	8.22%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	6/25/2008
Sample I.D.	0807-0523
Sample MS I.D.	0807-0523MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.431
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.431
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.927
Sample Result:	6.272
Sample Result Counting Uncertainty (pCi/L, g, F):	1.181
Sample Matrix Spike Result:	47.444
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	3.777
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.840
MSD Numerical Performance Indicator:	
MS Percent Recovery:	104.42%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

July 25, 2008

Client Services
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 405916 FOTH
Pace Project No.: 1076614

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on July 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Hunter

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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SAMPLE SUMMARY

Project: 405916 FOTH
Pace Project No.: 1076614

Lab ID	Sample ID	Matrix	Date Collected	Date Received
405916001	**WLD-002**	Water	07/01/08 00:00	07/09/08 09:38
405916002	**WLD-003**	Water	07/01/08 00:00	07/09/08 09:38
405916003	**FBK-001**	Water	07/01/08 00:00	07/09/08 09:38
405916004	**DUP-001**	Water	07/01/08 00:00	07/09/08 09:38
405916005	**HTP-001**	Water	07/01/08 00:00	07/09/08 09:38

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SAMPLE ANALYTE COUNT

Project: 405916 FOTH
Pace Project No.: 1076614

Lab ID	Sample ID	Method	Analysts	Analytes Reported
405916001	WLD-002	EPA 6020	RJS	25
405916002	WLD-003	EPA 6020	RJS	25
405916003	FBK-001	EPA 6020	RJS	25
405916004	DUP-001	EPA 6020	RJS	25
405916005	HTP-001	EPA 6020	RJS	25

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ANALYTICAL RESULTS

Project: 405916 FOTH
Pace Project No.: 1076614

Sample: WLD-002 **Lab ID: 405916001** Collected: 07/01/08 00:00 Received: 07/09/08 09:38 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**20.5**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 15:52	7429-90-5	B
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:28	7440-36-0	
Arsenic	**0.24**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:28	7440-38-2	
Barium	**9.7**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 20:28	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 15:52	7440-41-7	
Boron	**9.1**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 20:28	7440-42-8	B
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:28	7440-43-9	
Calcium	**5320**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:28	7440-70-2	P6
Chromium	**0.49J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:28	7440-47-3	
Cobalt	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:28	7440-48-4	
Copper	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:28	7440-50-8	
Iron	**2610**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:28	7439-89-6	
Lead	**0.071J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:28	7439-92-1	
Lithium	**0.18**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:28	7439-93-2	
Magnesium	**1060**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 15:52	7439-95-4	
Manganese	**18.0**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:28	7439-96-5	
Molybdenum	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:28	7439-98-7	
Potassium	**360**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:28	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:28	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:28	7440-22-4	M0
Sodium	**461**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:28	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:28	7440-28-0	
Total Hardness by 2340B	**17700**	ug/L	21.3	6.7	1	07/11/08 17:20	07/16/08 20:28		
Vanadium	**0.25**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:28	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 20:28	7440-66-6	

Sample: WLD-003 **Lab ID: 405916002** Collected: 07/01/08 00:00 Received: 07/09/08 09:38 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**12.2**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 15:57	7429-90-5	B
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:32	7440-36-0	
Arsenic	**0.48**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:32	7440-38-2	
Barium	**15.0**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 20:32	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 15:57	7440-41-7	
Boron	**11.9**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 20:32	7440-42-8	B
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:32	7440-43-9	
Calcium	**5670**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:32	7440-70-2	
Chromium	**0.41J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:32	7440-47-3	
Cobalt	**0.075J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:32	7440-48-4	
Copper	**0.31**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:32	7440-50-8	
Iron	**1250**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:32	7439-89-6	
Lead	**0.48**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:32	7439-92-1	

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ANALYTICAL RESULTS

Project: 405916 FOTH
Pace Project No.: 1076614

Sample: WLD-003 **Lab ID: 405916002** Collected: 07/01/08 00:00 Received: 07/09/08 09:38 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Lithium	**0.29**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:32	7439-93-2	
Magnesium	**1250**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 15:57	7439-95-4	
Manganese	**154**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:32	7439-96-5	
Molybdenum	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:32	7439-98-7	
Potassium	**665**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:32	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:32	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:32	7440-22-4	
Sodium	**768**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:32	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:32	7440-28-0	
Total Hardness by 2340B	**19300**	ug/L	21.3	6.7	1	07/11/08 17:20	07/16/08 20:32		
Vanadium	**0.21**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:32	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 20:32	7440-66-6	

Sample: FBK-001 **Lab ID: 405916003** Collected: 07/01/08 00:00 Received: 07/09/08 09:38 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**2.1J**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 16:23	7429-90-5	B
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:37	7440-36-0	
Arsenic	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:37	7440-38-2	
Barium	**0.22J**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 20:37	7440-39-3	B
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 16:23	7440-41-7	
Boron	**16.0**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 20:37	7440-42-8	B
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:37	7440-43-9	
Calcium	**19.5J**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:37	7440-70-2	
Chromium	**0.65**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:37	7440-47-3	
Cobalt	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:37	7440-48-4	
Copper	**1.4**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:37	7440-50-8	
Iron	**35.2J**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:37	7439-89-6	B
Lead	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:37	7439-92-1	
Lithium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:37	7439-93-2	
Magnesium	**<2.5**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 16:23	7439-95-4	
Manganese	**0.47J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:37	7439-96-5	
Molybdenum	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:37	7439-98-7	
Potassium	**21.3**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:37	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:37	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:37	7440-22-4	
Sodium	**311**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:37	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:37	7440-28-0	
Total Hardness by 2340B	**55.2**	ug/L	21.3	6.7	1	07/11/08 17:20	07/16/08 20:37		
Vanadium	**0.068J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:37	7440-62-2	
Zinc	**5.6**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 20:37	7440-66-6	B

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ANALYTICAL RESULTS

Project: 405916 FOTH
Pace Project No.: 1076614

Sample: DUP-001 **Lab ID: 405916004** Collected: 07/01/08 00:00 Received: 07/09/08 09:38 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.1**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 16:28	7429-90-5	B
Antimony	**0.082J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:41	7440-36-0	
Arsenic	**0.69**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:41	7440-38-2	
Barium	**2.5**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 20:41	7440-39-3	B
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 16:28	7440-41-7	
Boron	**22.5**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 20:41	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:41	7440-43-9	
Calcium	**11200**	ug/L	100	50.0	5	07/11/08 17:20	07/16/08 20:46	7440-70-2	
Chromium	**0.35J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:41	7440-47-3	
Cobalt	**0.10**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:41	7440-48-4	
Copper	**1.5**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:41	7440-50-8	
Iron	**446**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:41	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:41	7439-92-1	
Lithium	**4.2**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:41	7439-93-2	
Magnesium	**7270**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 16:28	7439-95-4	
Manganese	**11.9**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:41	7439-96-5	
Molybdenum	**1.1**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:41	7439-98-7	
Potassium	**1450**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:41	7440-09-7	
Selenium	**0.53**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:41	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:41	7440-22-4	
Sodium	**241**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:41	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:41	7440-28-0	
Total Hardness by 2340B	**57900**	ug/L	105	32.3	5	07/11/08 17:20	07/16/08 20:46		
Vanadium	**0.14**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:41	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 20:41	7440-66-6	

Sample: HTP-001 **Lab ID: 405916005** Collected: 07/01/08 00:00 Received: 07/09/08 09:38 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.9**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 16:32	7429-90-5	B
Antimony	**0.079J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 21:12	7440-36-0	
Arsenic	**0.71**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 21:12	7440-38-2	
Barium	**2.7**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 21:12	7440-39-3	B
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 16:32	7440-41-7	
Boron	**22.0**	ug/L	2.0	1.0	1	07/11/08 17:20	07/17/08 16:32	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 21:12	7440-43-9	
Calcium	**11500**	ug/L	100	50.0	5	07/11/08 17:20	07/16/08 21:17	7440-70-2	
Chromium	**0.43J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 21:12	7440-47-3	
Cobalt	**0.10**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 21:12	7440-48-4	
Copper	**1.5**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 21:12	7440-50-8	
Iron	**463**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 21:12	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 21:12	7439-92-1	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 405916 FOTH
Pace Project No.: 1076614

Sample: HTP-001 **Lab ID: 405916005** Collected: 07/01/08 00:00 Received: 07/09/08 09:38 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Lithium	**4.3**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 21:12	7439-93-2	
Magnesium	**7610**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 16:32	7439-95-4	
Manganese	**10.6**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 21:12	7439-96-5	
Molybdenum	**1.1**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 21:12	7439-98-7	
Potassium	**1470**	ug/L	20.0	10.0	1	07/11/08 17:20	07/17/08 16:32	7440-09-7	
Selenium	**0.59**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 21:12	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 21:12	7440-22-4	
Sodium	**195**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 21:12	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 21:12	7440-28-0	
Total Hardness by 2340B	**60200**	ug/L	105	32.3	5	07/11/08 17:20	07/16/08 21:17		
Vanadium	**0.13**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 21:12	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 21:12	7440-66-6	

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QUALITY CONTROL DATA

Project: 405916 FOTH
Pace Project No.: 1076614

QC Batch: MPRP/12617 | Analysis Method: EPA 6020
QC Batch Method: EPA 3020 | Analysis Description: 6020 MET
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

METHOD BLANK: 498942
Associated Lab Samples: 405916001, 405916002, 405916003, 405916004, 405916005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	5.9	4.0	B
Antimony	ug/L	<0.050	0.10	
Arsenic	ug/L	<0.10	0.20	
Barium	ug/L	0.88	0.30	B
Beryllium	ug/L	<0.10	0.20	
Boron	ug/L	1.6J	2.0	B
Cadmium	ug/L	<0.050	0.10	
Calcium	ug/L	<10.0	20.0	
Chromium	ug/L	<0.25	0.50	
Cobalt	ug/L	<0.050	0.10	
Copper	ug/L	<0.10	0.20	
Iron	ug/L	33.9J	50.0	B
Lead	ug/L	<0.050	0.10	
Lithium	ug/L	<0.050	0.10	
Magnesium	ug/L	4.4J	5.0	P8
Manganese	ug/L	<0.25	0.50	
Molybdenum	ug/L	<0.050	0.10	
Potassium	ug/L	<10.0	20.0	
Selenium	ug/L	<0.25	0.50	
Silver	ug/L	<0.10	0.20	
Sodium	ug/L	<25.0	50.0	
Thallium	ug/L	<0.050	0.10	
Total Hardness by 2340B	ug/L	31.3	21.3	
Vanadium	ug/L	<0.050	0.10	
Zinc	ug/L	3.7J	5.0	B

LABORATORY CONTROL SAMPLE: 498943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	84.6	106	85-115	
Antimony	ug/L	80	81.5	102	85-115	
Arsenic	ug/L	80	76.2	95	85-115	
Barium	ug/L	80	81.0	101	85-115	
Beryllium	ug/L	80	84.7	106	85-115	
Boron	ug/L	80	90.8	114	85-115	
Cadmium	ug/L	80	78.4	98	85-115	
Calcium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	80	80.2	100	85-115	
Cobalt	ug/L	80	78.1	98	85-115	
Copper	ug/L	80	78.6	98	85-115	
Iron	ug/L	1000	1050	105	85-115	

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(612)607-1700

QUALITY CONTROL DATA

Project: 405916 FOTH
Pace Project No.: 1076614

LABORATORY CONTROL SAMPLE: 498943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	80	79.3	99	85-115	
Lithium	ug/L	80	88.1	110	85-115	
Magnesium	ug/L	1000	1060	106	85-115	
Manganese	ug/L	80	81.9	102	85-115	
Molybdenum	ug/L	80	78.2	98	85-115	
Potassium	ug/L	1000	983	98	85-115	
Selenium	ug/L	160	149	93	85-115	
Silver	ug/L	80	109	137	85-115	L1
Sodium	ug/L	1000	913	91	85-115	
Thallium	ug/L	80	79.7	100	85-115	
Total Hardness by 2340B	ug/L		6880			
Vanadium	ug/L	80	80.3	100	85-115	
Zinc	ug/L	80	77.7	97	85-115	

MATRIX SPIKE SAMPLE: 498944

Parameter	Units	405913001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	2.4J	80	77.3	94	70-130	
Antimony	ug/L	1.1	80	84.5	104	70-130	
Arsenic	ug/L	0.38	80	78.2	97	70-130	
Barium	ug/L	23.1	80	103	100	70-130	
Beryllium	ug/L	<0.10	80	79.0	99	70-130	
Boron	ug/L	938	80	658	-350	70-130	P6
Cadmium	ug/L	0.18	80	77.6	97	70-130	
Calcium	ug/L	112000	1000	105000	-626	70-130	P6
Chromium	ug/L	6.1	80	86.8	101	70-130	
Cobalt	ug/L	14.6	80	90.2	95	70-130	
Copper	ug/L	16.0	80	91.3	94	70-130	
Iron	ug/L	68.9	1000	1120	105	70-130	
Lead	ug/L	<0.050	80	81.5	102	70-130	
Lithium	ug/L	11.8	80	94.4	103	70-130	
Magnesium	ug/L	88100	1000	75800	-1230	70-130	P6
Manganese	ug/L	63.9	80	143	99	70-130	
Molybdenum	ug/L	80.7	80	156	95	70-130	
Potassium	ug/L	36800	1000	36200	-65	70-130	P6
Selenium	ug/L	1.5	160	155	96	70-130	
Silver	ug/L	0.13J	80	99.8	125	70-130	
Sodium	ug/L	96500	1000	91200	-532	70-130	P6
Thallium	ug/L	<0.050	80	79.0	99	70-130	
Total Hardness by 2340B	ug/L	641000		575000			
Vanadium	ug/L	0.18	80	81.9	102	70-130	
Zinc	ug/L	2.6J	80	97.3	118	70-130	

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QUALITY CONTROL DATA

Project: 405916 FOTH
Pace Project No.: 1076614

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 498945 498946

Parameter	Units	405916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	20.5	80	80	106	94.4	107	92	70-130	12	20	
Antimony	ug/L	<0.050	80	80	81.7	82.5	102	103	70-130	1	20	
Arsenic	ug/L	0.24	80	80	77.1	79.3	96	99	70-130	3	20	
Barium	ug/L	9.7	80	80	90.0	90.8	100	101	70-130	.8	20	
Beryllium	ug/L	<0.10	80	80	77.2	72.3	97	90	70-130	7	20	
Boron	ug/L	9.1	80	80	90.3	91.0	101	102	70-130	.8	20	
Cadmium	ug/L	<0.050	80	80	78.9	80.0	99	100	70-130	1	20	
Calcium	ug/L	5320	1000	1000	6070	5940	74	61	70-130	2	20	P6
Chromium	ug/L	0.49J	80	80	81.0	81.4	101	101	70-130	.5	20	
Cobalt	ug/L	<0.050	80	80	78.1	78.1	98	98	70-130	.04	20	
Copper	ug/L	<0.10	80	80	79.3	79.3	99	99	70-130	.003	20	
Iron	ug/L	2610	1000	1000	3460	3420	85	81	70-130	.9	20	
Lead	ug/L	0.071J	80	80	79.7	81.3	99	102	70-130	2	20	
Lithium	ug/L	0.18	80	80	85.0	82.6	106	103	70-130	3	20	
Magnesium	ug/L	1060	1000	1000	2080	1970	101	90	70-130	5	20	
Manganese	ug/L	18.0	80	80	99.1	97.2	101	99	70-130	2	20	
Molybdenum	ug/L	<0.050	80	80	77.7	78.7	97	98	70-130	1	20	
Potassium	ug/L	360	1000	1000	1350	1360	99	99	70-130	.6	20	
Selenium	ug/L	<0.25	160	160	152	155	95	97	70-130	2	20	
Silver	ug/L	<0.10	80	80	108	110	135	137	70-130	2	20	M0
Sodium	ug/L	461	1000	1000	1320	1310	86	85	70-130	.9	20	
Thallium	ug/L	<0.050	80	80	77.9	79.5	97	99	70-130	2	20	
Total Hardness by 2340B	ug/L	17700			23700	22900				3	20	
Vanadium	ug/L	0.25	80	80	79.7	80.5	99	100	70-130	1	20	
Zinc	ug/L	<2.5	80	80	78.0	78.1	97	97	70-130	.2	20	

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QUALIFIERS

Project: 405916 FOTH
Pace Project No.: 1076614

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: ICPM/4961

[1] The samples were originally digested on 7/11/08. Due to analyst error the digests could not be analyed. The sample batch was re-digested on 7/15/08 and analyzed on 7/16/08 and 7/17/08.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

M0 Matrix spike recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

P8 Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 405916 FOTH
Pace Project No.: 1076614

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405916001	**WLD-002**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405916002	**WLD-003**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405916003	**FBK-001**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405916004	**DUP-001**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405916005	**HTP-001**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961

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Sample Condition Upon Receipt

Pace Analytical

Client Name: NORTH JACKSON Project # 405914

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Poly

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/2/08

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. Nitrates
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		initial when completed SJ / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: KAH **Date:** 7/2/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

(X) = 1-1L Poly*, 1-500mL Poly*, 2-500mL D, 1-500mL Poly*, 4-250mL A,C,D,G, 2-125mL AG^C
(1)

20080701

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ZnAc, NaOH	Analysis Test (Y/N)	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																				N	N	N	N	N	N	N	Y	N	L405916
1	WLD-002	001	WT	G			07/01/08	1335		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	(X) See Above
2	WLD-003	002	WT	G			07/01/08	1212		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2		
3	FBK-001	003	WT	-			07/01/08	1520		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2		
4	DUP-001	004	WT	G			07/01/08	—		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2		
5	HTP-001	005	WT	G			07/01/08	1545		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2		
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Richard R Eagle	07/01/08	0600			
	FEDEX	7/2/08	1010		7/2/08	1010

SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	1°			
	~~NOT~~	Y	N	Y

7900 4348 9017
7900 4348 9705
7998 7575 7779

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CURT SHEFFIELD / Richard R Eagle

SIGNATURE of SAMPLER: Curt Sheffield / Richard R Eagle — DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Batch No. 405944

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

July 30, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL
Pace Project No.: 405944

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on July 03, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: HUMBOLDT MILL
Pace Project No.: 405944

Lab ID	Sample ID	Matrix	Date Collected	Date Received
405944001	**FBK-002**	Water	07/02/08 09:45	07/03/08 00:00
405944002	**MBR-001**	Water	07/02/08 09:20	07/03/08 00:00
405944003	**DUP-002**	Water	07/02/08 00:00	07/03/08 00:00
405944004	**EBR-001**	Water	07/02/08 10:40	07/03/08 00:00
405944005	**WLD-001NW**	Water	07/02/08 12:30	07/03/08 00:00
405944006	**WLD-001SE**	Water	07/02/08 12:00	07/03/08 00:00
405944007	**WBR-001**	Water	07/02/08 14:10	07/03/08 00:00
405944008	**WBR-002**	Water	07/02/08 13:30	07/03/08 00:00
405944009	**WBR-003**	Water	07/02/08 11:15	07/03/08 00:00

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 405944

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
405944001	FBK-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405944002	MBR-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405944003	DUP-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405944004	EBR-001	EPA 1631E	GMW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 405944

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405944005	**WLD-001NW**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405944006	**WLD-001SE**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405944007	**WBR-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 405944

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405944008	**WBR-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G
405944009	**WBR-003**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	DEY	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	PK1	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1788

R1: RPD value was outside control limits.
- DUP (Lab ID: 49535)
  - Total Dissolved Solids
- DUP (Lab ID: 49536)
  - Total Dissolved Solids

QC Batch: WET/1802

R1: RPD value was outside control limits.
- DUP (Lab ID: 50159)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1787

R1: RPD value was outside control limits.

- DUP (Lab ID: 49320)
  - Total Suspended Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1883

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 405944005

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 49119)
  - Nitrite as N
- MSD (Lab ID: 49120)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1884

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 405944005

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 49123)
  - Sulfate
- MSD (Lab ID: 49124)
  - Fluoride
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1942

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 405944004,406074002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 52052)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: EPA 410.4
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
9 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: FBK-002 **Lab ID: 405944001** Collected: 07/02/08 09:45 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.228J**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 11:26	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		07/03/08 07:54		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		07/08/08 12:24		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/03/08 21:24	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 02:08	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		07/03/08 21:24	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		07/03/08 21:24	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		07/03/08 21:24	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:10	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:15	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		07/15/08 11:15	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		07/11/08 15:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: MBR-001 **Lab ID: 405944002** Collected: 07/02/08 09:20 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**9.04**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 11:31	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**7.2**	NTU	1.0	0.44	1		07/03/08 07:55		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**37.4**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**37.4**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**146**	mg/L	20.0	12.0	1		07/08/08 12:25		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.2**	mg/L	2.5	0.78	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.20J**	mg/L	0.40	0.085	1		07/03/08 21:38	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 02:22	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.6**	mg/L	5.0	1.1	1		07/03/08 21:38	16887-00-6	
Fluoride	**0.24J**	mg/L	0.50	0.059	1		07/03/08 21:38	16984-48-8	
Sulfate	**3.6J**	mg/L	4.0	0.51	1		07/03/08 21:38	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:11	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:16	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**100**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**35.4**	mg/L	2.0	1.4	1		07/15/08 11:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**30.0**	mg/L	2.0	1.4	1		07/11/08 15:31		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: DUP-002 **Lab ID: 405944003** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**5.73**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 11:36	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**6.8**	NTU	1.0	0.44	1		07/03/08 07:55		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**37.4**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**37.4**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**148**	mg/L	20.0	12.0	1		07/08/08 12:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**5.2**	mg/L	2.0	0.62	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.20J**	mg/L	0.40	0.085	1		07/03/08 21:53	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 02:36	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.6**	mg/L	5.0	1.1	1		07/03/08 21:53	16887-00-6	
Fluoride	**0.24J**	mg/L	0.50	0.059	1		07/03/08 21:53	16984-48-8	
Sulfate	**3.3J**	mg/L	4.0	0.51	1		07/03/08 21:53	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:15	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:17	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**102**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**35.4**	mg/L	2.0	1.4	1		07/15/08 11:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**30.0**	mg/L	2.0	1.4	1		07/11/08 15:40		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: EBR-001 **Lab ID: 405944004** Collected: 07/02/08 10:40 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**4.75**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 11:45	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.1**	NTU	1.0	0.44	1		07/03/08 07:56		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**57.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**57.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**94.0**	mg/L	20.0	12.0	1		07/08/08 12:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.7**	mg/L	1.7	0.52	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/03/08 22:07	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 02:50	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		07/03/08 22:07	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		07/03/08 22:07	16984-48-8	
Sulfate	**2.5J**	mg/L	4.0	0.51	1		07/03/08 22:07	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:15	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:17	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**64.3**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**21.0**	mg/L	2.0	1.4	1		07/15/08 11:44	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**23.1**	mg/L	2.0	1.4	1		07/11/08 15:47		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: WLD-001NW **Lab ID: 405944005** Collected: 07/02/08 12:30 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**10.3**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 11:50	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.8**	NTU	1.0	0.44	1		07/03/08 07:56		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**72.6**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**72.6**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**132**	mg/L	20.0	12.0	1		07/08/08 12:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**11.8**	mg/L	1.7	0.52	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/03/08 22:21	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 03:05	14797-65-0	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**7.3**	mg/L	5.0	1.1	1		07/03/08 22:21	16887-00-6	
Fluoride	**0.30J**	mg/L	0.50	0.059	1		07/03/08 22:21	16984-48-8	M0
Sulfate	**6.2**	mg/L	4.0	0.51	1		07/03/08 22:21	14808-79-8	M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:18	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:18	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**46.4J**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**13.6**	mg/L	2.0	1.4	1		07/15/08 11:56	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**13.3**	mg/L	2.0	1.4	1		07/11/08 15:52		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: WLD-001SE **Lab ID: 405944006** Collected: 07/02/08 12:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.09**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 13:02	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**54.8**	NTU	1.0	0.44	1		07/03/08 07:57		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**103**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**112**	mg/L	20.0	12.0	1		07/08/08 12:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**13.2**	mg/L	2.0	0.62	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.20J**	mg/L	0.40	0.085	1		07/03/08 23:04	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 04:15	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.8J**	mg/L	5.0	1.1	1		07/03/08 23:04	16887-00-6	
Fluoride	**0.34J**	mg/L	0.50	0.059	1		07/03/08 23:04	16984-48-8	
Sulfate	**4.4**	mg/L	4.0	0.51	1		07/03/08 23:04	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:19	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.50J**	mg/L	1.0	0.50	1		07/11/08 14:19	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**39.8J**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.4**	mg/L	2.0	1.4	1		07/15/08 12:02	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**8.1**	mg/L	2.0	1.4	1		07/11/08 15:58		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: WBR-001 **Lab ID: 405944007** Collected: 07/02/08 14:10 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**13.8**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 12:05	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.2**	NTU	1.0	0.44	1		07/03/08 07:57		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**4.4J**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**4.4J**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**150**	mg/L	20.0	12.0	1		07/09/08 14:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.0**	mg/L	3.3	1.0	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.21J**	mg/L	0.40	0.085	1		07/03/08 23:18	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 04:30	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**19.8**	mg/L	5.0	1.1	1		07/03/08 23:18	16887-00-6	
Fluoride	**0.20J**	mg/L	0.50	0.059	1		07/03/08 23:18	16984-48-8	
Sulfate	**4.4**	mg/L	4.0	0.51	1		07/03/08 23:18	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:19	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:22	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**138**	mg/L	52.6	11.3	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**49.8**	mg/L	2.0	1.4	1		07/15/08 12:14	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**46.6**	mg/L	2.0	1.4	1		07/11/08 16:11		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: WBR-002 **Lab ID: 405944008** Collected: 07/02/08 13:30 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**3.26**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 12:14	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.1**	NTU	1.0	0.44	1		07/03/08 07:58		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**19.8**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**19.8**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**122**	mg/L	20.0	12.0	1		07/09/08 14:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.7**	mg/L	1.0	0.32	1		07/08/08 11:04		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		07/04/08 00:00	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 04:44	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**32.2**	mg/L	5.0	1.1	1		07/04/08 00:00	16887-00-6	
Fluoride	**0.21J**	mg/L	0.50	0.059	1		07/04/08 00:00	16984-48-8	
Sulfate	**5.1**	mg/L	4.0	0.51	1		07/04/08 00:00	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:20	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:23	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**68.8**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**22.6**	mg/L	2.0	1.4	1		07/15/08 12:22	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**20.3**	mg/L	2.0	1.4	1		07/11/08 16:12		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 405944

Sample: WBR-003 **Lab ID: 405944009** Collected: 07/02/08 11:15 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**5.72**	ng/L	0.50	0.16	1	07/03/08 13:15	07/15/08 12:20	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**19.7**	NTU	1.0	0.44	1		07/03/08 07:58		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**46.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
Alkalinity, Total as CaCO3	**46.2**	mg/L	10.0	3.2	1		07/08/08 14:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**150**	mg/L	20.0	12.0	1		07/09/08 14:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**16.0**	mg/L	4.0	1.2	1		07/08/08 11:04		R1
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/03/08 10:34		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.22J**	mg/L	0.40	0.085	1		07/04/08 00:14	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/04/08 04:58	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.9**	mg/L	5.0	1.1	1		07/04/08 00:14	16887-00-6	
Fluoride	**0.24J**	mg/L	0.50	0.059	1		07/04/08 00:14	16984-48-8	
Sulfate	**3.6J**	mg/L	4.0	0.51	1		07/04/08 00:14	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:21	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/11/08 14:23	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**111**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**36.1**	mg/L	2.0	1.4	1		07/15/08 12:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**36.6**	mg/L	2.0	1.4	1		07/11/08 16:28		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WET/1781 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 49091
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE: 49092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	41.2	42.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49093 49094

Parameter	Units	1075945001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	41.2	41.2	42.8	42.8	101	101	80-120	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WETA/1883 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 49117
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 49118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.5	94	90-110	
Nitrite as N	mg/L	.8	0.74	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49119 49120

Parameter	Units	405944005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.085	1.6	1.6	1.5	1.6	96	97	90-110	.6	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.67	0.65	84	81	90-110	3	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WETA/1884 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 49121
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<1.1	5.0	
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	<0.51	4.0	

LABORATORY CONTROL SAMPLE: 49122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.8	94	90-110	
Fluoride	mg/L	2	1.9	96	90-110	
Sulfate	mg/L	16	15.2	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49123 49124

Parameter	Units	405944005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.3	20	20	25.6	25.7	92	92	90-110	.2	20	
Fluoride	mg/L	0.30J	2	2	2.1	2.1	90	89	90-110	1	20	M0
Sulfate	mg/L	6.2	16	16	20.2	20.3	88	89	90-110	.8	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WET/1786 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 49301
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 49302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	534	536	100		

SAMPLE DUPLICATE: 49304

Parameter	Units	405944001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	<0.44	<0.44	0	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WET/1787 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 49317
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 49318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	310	282	91	80-120	

SAMPLE DUPLICATE: 49319

Parameter	Units	405944002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4.2	4.5	6	10	

SAMPLE DUPLICATE: 49320

Parameter	Units	405944009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	16.0	18.0	12	10	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WET/1788 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006

METHOD BLANK: 49533
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	

LABORATORY CONTROL SAMPLE: 49534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1060	1040	98	80-120	

SAMPLE DUPLICATE: 49535

Parameter	Units	405906001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	18.0J	<12.0	77	10	R1

SAMPLE DUPLICATE: 49536

Parameter	Units	405916003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<12.0	<12.0	120	10	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WET/1791 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 49615
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 49616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49617 49618

Parameter	Units	405755001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.2	500	500	521	521	102	102	80-120	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WET/1802 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 405944007, 405944008, 405944009

METHOD BLANK: 50157
Associated Lab Samples: 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	12.0J	20.0	

LABORATORY CONTROL SAMPLE: 50158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1060	1060	100	80-120	

SAMPLE DUPLICATE: 50159

Parameter	Units	406074001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<12.0	<12.0	133	10	R1

SAMPLE DUPLICATE: 50160

Parameter	Units	406127004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	332	340	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WETA/1919 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 50800
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 50801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	518	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50802 50803

Parameter	Units	405944007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	138	526	526	674	674	102	102	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50804 50805

Parameter	Units	406127008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	58.3	526	526	601	604	103	104	90-110	.4	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WETA/1920 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 50853
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 50854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50855 50856

Parameter	Units	405916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	11.2	100	100	122	121	111	110	80-120	.7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50857 50858

Parameter	Units	405944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<1.4	100	100	113	113	113	113	80-120	.2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WETA/1923 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 50888
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 50889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50890 50891

Parameter	Units	405916005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.4	10.5	104	105	90-110	.7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50892 50893

Parameter	Units	405971001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.2	10	100	97	90-110	2	20	

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nelac

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WETA/1936 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 51702
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 51703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	98.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51704 51705

Parameter	Units	405944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	<1.4	100	100	116	117	116	117	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51706 51707

Parameter	Units	406074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	<1.4	100	100	117	118	117	118	80-120	.9	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: WETA/1942 | Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 | Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 52048
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 52049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52050 52051

Parameter	Units	405944004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	102	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52052 52053

Parameter	Units	406074002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.12	0.11	111	102	90-110	8	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 405944

QC Batch: CVFS/1140 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 52102
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 52103
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.475J	0.50	

METHOD BLANK: 52104
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.203J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 52105 52106

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.28	5.38	106	108	79-121	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52107 52108

Parameter	Units	405944004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	4.75	20	20	25.8	20.5	105	79	75-125	23	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52109 52110

Parameter	Units	405944005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	10.3	20	20	28.3	30.6	90	101	75-125	8	24	

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QUALIFIERS

Project: HUMBOLDT MILL
Pace Project No.: 405944

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405944001	FBK-002	SM 4500-S F (2000)	WET/1781		
405944002	MBR-001	SM 4500-S F (2000)	WET/1781		
405944003	DUP-002	SM 4500-S F (2000)	WET/1781		
405944004	EBR-001	SM 4500-S F (2000)	WET/1781		
405944005	WLD-001NW	SM 4500-S F (2000)	WET/1781		
405944006	WLD-001SE	SM 4500-S F (2000)	WET/1781		
405944007	WBR-001	SM 4500-S F (2000)	WET/1781		
405944008	WBR-002	SM 4500-S F (2000)	WET/1781		
405944009	WBR-003	SM 4500-S F (2000)	WET/1781		
405944001	FBK-002	EPA 300.0	WETA/1883		
405944002	MBR-001	EPA 300.0	WETA/1883		
405944003	DUP-002	EPA 300.0	WETA/1883		
405944004	EBR-001	EPA 300.0	WETA/1883		
405944005	WLD-001NW	EPA 300.0	WETA/1883		
405944006	WLD-001SE	EPA 300.0	WETA/1883		
405944007	WBR-001	EPA 300.0	WETA/1883		
405944008	WBR-002	EPA 300.0	WETA/1883		
405944009	WBR-003	EPA 300.0	WETA/1883		
405944001	FBK-002	EPA 300.0	WETA/1884		
405944002	MBR-001	EPA 300.0	WETA/1884		
405944003	DUP-002	EPA 300.0	WETA/1884		
405944004	EBR-001	EPA 300.0	WETA/1884		
405944005	WLD-001NW	EPA 300.0	WETA/1884		
405944006	WLD-001SE	EPA 300.0	WETA/1884		
405944007	WBR-001	EPA 300.0	WETA/1884		
405944008	WBR-002	EPA 300.0	WETA/1884		
405944009	WBR-003	EPA 300.0	WETA/1884		
405944001	FBK-002	SM 2130B	WET/1786		
405944002	MBR-001	SM 2130B	WET/1786		
405944003	DUP-002	SM 2130B	WET/1786		
405944004	EBR-001	SM 2130B	WET/1786		
405944005	WLD-001NW	SM 2130B	WET/1786		
405944006	WLD-001SE	SM 2130B	WET/1786		
405944007	WBR-001	SM 2130B	WET/1786		
405944008	WBR-002	SM 2130B	WET/1786		
405944009	WBR-003	SM 2130B	WET/1786		
405944001	FBK-002	SM 2540D	WET/1787		
405944002	MBR-001	SM 2540D	WET/1787		
405944003	DUP-002	SM 2540D	WET/1787		
405944004	EBR-001	SM 2540D	WET/1787		
405944005	WLD-001NW	SM 2540D	WET/1787		
405944006	WLD-001SE	SM 2540D	WET/1787		
405944007	WBR-001	SM 2540D	WET/1787		
405944008	WBR-002	SM 2540D	WET/1787		
405944009	WBR-003	SM 2540D	WET/1787		
405944001	FBK-002	SM 2540C	WET/1788		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405944002	MBR-001	SM 2540C	WET/1788		
405944003	DUP-002	SM 2540C	WET/1788		
405944004	EBR-001	SM 2540C	WET/1788		
405944005	WLD-001NW	SM 2540C	WET/1788		
405944006	WLD-001SE	SM 2540C	WET/1788		
405944001	FBK-002	SM 2320B	WET/1791		
405944002	MBR-001	SM 2320B	WET/1791		
405944003	DUP-002	SM 2320B	WET/1791		
405944004	EBR-001	SM 2320B	WET/1791		
405944005	WLD-001NW	SM 2320B	WET/1791		
405944006	WLD-001SE	SM 2320B	WET/1791		
405944007	WBR-001	SM 2320B	WET/1791		
405944008	WBR-002	SM 2320B	WET/1791		
405944009	WBR-003	SM 2320B	WET/1791		
405944007	WBR-001	SM 2540C	WET/1802		
405944008	WBR-002	SM 2540C	WET/1802		
405944009	WBR-003	SM 2540C	WET/1802		
405944001	FBK-002	EPA 410.4	WETA/1919		
405944002	MBR-001	EPA 410.4	WETA/1919		
405944003	DUP-002	EPA 410.4	WETA/1919		
405944004	EBR-001	EPA 410.4	WETA/1919		
405944005	WLD-001NW	EPA 410.4	WETA/1919		
405944006	WLD-001SE	EPA 410.4	WETA/1919		
405944007	WBR-001	EPA 410.4	WETA/1919		
405944008	WBR-002	EPA 410.4	WETA/1919		
405944009	WBR-003	EPA 410.4	WETA/1919		
405944001	FBK-002	SM 5310C	WETA/1920		
405944002	MBR-001	SM 5310C	WETA/1920		
405944003	DUP-002	SM 5310C	WETA/1920		
405944004	EBR-001	SM 5310C	WETA/1920		
405944005	WLD-001NW	SM 5310C	WETA/1920		
405944006	WLD-001SE	SM 5310C	WETA/1920		
405944007	WBR-001	SM 5310C	WETA/1920		
405944008	WBR-002	SM 5310C	WETA/1920		
405944009	WBR-003	SM 5310C	WETA/1920		
405944001	FBK-002	EPA 350.1	WETA/1923		
405944002	MBR-001	EPA 350.1	WETA/1923		
405944003	DUP-002	EPA 350.1	WETA/1923		
405944004	EBR-001	EPA 350.1	WETA/1923		
405944005	WLD-001NW	EPA 350.1	WETA/1923		
405944006	WLD-001SE	EPA 350.1	WETA/1923		
405944007	WBR-001	EPA 350.1	WETA/1923		
405944008	WBR-002	EPA 350.1	WETA/1923		
405944009	WBR-003	EPA 350.1	WETA/1923		
405944001	FBK-002	SM 5310C	WETA/1936		
405944002	MBR-001	SM 5310C	WETA/1936		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 405944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405944003	DUP-002	SM 5310C	WETA/1936		
405944004	EBR-001	SM 5310C	WETA/1936		
405944005	WLD-001NW	SM 5310C	WETA/1936		
405944006	WLD-001SE	SM 5310C	WETA/1936		
405944007	WBR-001	SM 5310C	WETA/1936		
405944008	WBR-002	SM 5310C	WETA/1936		
405944009	WBR-003	SM 5310C	WETA/1936		
405944001	FBK-002	EPA 335.4	WETA/1942		
405944002	MBR-001	EPA 335.4	WETA/1942		
405944003	DUP-002	EPA 335.4	WETA/1942		
405944004	EBR-001	EPA 335.4	WETA/1942		
405944005	WLD-001NW	EPA 335.4	WETA/1942		
405944006	WLD-001SE	EPA 335.4	WETA/1942		
405944007	WBR-001	EPA 335.4	WETA/1942		
405944008	WBR-002	EPA 335.4	WETA/1942		
405944009	WBR-003	EPA 335.4	WETA/1942		
405944001	FBK-002	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141
405944002	MBR-001	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141
405944003	DUP-002	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141
405944004	EBR-001	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141
405944005	WLD-001NW	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141
405944006	WLD-001SE	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141
405944007	WBR-001	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141
405944008	WBR-002	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141
405944009	WBR-003	EPA 1631E	CVFS/1140	EPA 1631E	CVFS/1141

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July 29, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Groundwater Characterization
405944 Foth & Van Dyke
Pace Project No. 08-2924

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on July 9, 2008 and logged in for analysis on July 10, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

cc: Alee Her

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2924
CLIENT: 405944 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0807-0539	FBK-002 (405944001)	0807-0540	MBR-001 (405944002)
0807-0541	DUP-002 (405944003)	0807-0542	EBR-001 (405944004)
0807-0543	WLD-001NW (405944005	0807-0544	WLD-001SE (405944006
0807-0545	WBR-001 (405944007)	0807-0546	WBR-002 (405944008)
0807-0547	WBR-003 (405944009)		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2924
Groundwater Characterization; 405944 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Analyzed	Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0539	FBK-002 (405944001)	(7/2/08)	07/29/08	-0.370 ± 0.798	(2.37)
0807-0540	MBR-001 (405944002)	(7/2/08)	07/29/08	1.07 ± 1.07	(2.03)
0807-0541	DUP-002 (405944003)	(7/2/08)	07/29/08	1.20 ± 1.04	(1.78)
0807-0542	EBR-001 (405944004)	(7/2/08)	07/29/08	0.512 ± 0.673	(1.32)
0807-0543	WLD-001NW (405944005)	(7/2/08)	07/29/08	1.02 ± 1.03	(1.89)
0807-0544	WLD-001SE (405944006)	(7/2/08)	07/29/08	1.02 ± 1.16	(2.35)
0807-0545	WBR-001 (405944007)	(7/2/08)	07/29/08	0.112 ± 0.592	(1.58)
0807-0546	WBR-002 (405944008)	(7/2/08)	07/19/08	0.123 ± 0.745	(2.05)
0807-0547	WBR-003 (405944009)	(7/2/08)	07/19/08	0.764 ± 1.06	(2.20)
0807-0548	Method Blank	(7/9/08)	07/19/08	0.493 ± 0.707	(1.50)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0539	FBK-002 (405944001)	(7/2/08)	07/29/08	0.829 ± 0.966	(2.11)
0807-0540	MBR-001 (405944002)	(7/2/08)	07/29/08	1.10 ± 0.903	(1.74)
0807-0541	DUP-002 (405944003)	(7/2/08)	07/29/08	1.91 ± 1.07	(1.83)
0807-0542	EBR-001 (405944004)	(7/2/08)	07/29/08	2.46 ± 1.12	(1.71)
0807-0543	WLD-001NW (405944005)	(7/2/08)	07/29/08	1.83 ± 1.02	(1.73)
0807-0544	WLD-001SE (405944006)	(7/2/08)	07/29/08	2.19 ± 1.06	(1.63)
0807-0545	WBR-001 (405944007)	(7/2/08)	07/29/08	1.45 ± 0.945	(1.74)
0807-0546	WBR-002 (405944008)	(7/2/08)	07/19/08	1.99 ± 1.39	(2.66)
0807-0547	WBR-003 (405944009)	(7/2/08)	07/19/08	1.68 ± 1.21	(2.28)
0807-0548	Method Blank	(7/9/08)	07/19/08	-0.076 ± 0.716	(1.79)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

QA Assessment Spreadsheet
PACE Analytical Services
Waltz Mill Laboratory

Quality Control Sample Performance Assessment

2-7/29/08

Test:	Gross Alpha
Analyst:	RMD
Date:	7/28/2008
Worklist:	16770
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.414
M/B Counting Uncertainty:	0.368
MB MDC:	1.616
MB Numerical Performance Indicator:	-2.21
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/29/2008	7/29/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	44.332	42.242
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	3.897	3.806
Numerical Performance Indicator:	-0.65	-1.54
Percent Recovery:	96.59%	92.04%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16770
Duplicate Sample I.D.	LCSD16770
Sample Result (pCi/L, g, F):	44.332
Sample Result Counting Uncertainty (pCi/L, g, F):	3.897
Sample Duplicate Result (pCi/L, g, F):	42.242
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.806
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.752
Duplicate RPD:	4.83%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	6/25/2008
Sample I.D.	0807-0523
Sample MS I.D.	0807-0523MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	91.795
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.398
Sample Result:	9.951
Sample Result Counting Uncertainty (pCi/L, g, F):	2.928
Sample Matrix Spike Result:	94.327
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	10.173
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-1.224
MSD Numerical Performance Indicator:	
MS Percent Recovery:	91.92%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

5005

QA Assessment Spreadsheet
PACE Analytical Services
Waltz Mill Laboratory

Quality Control Sample Performance Assessment

7/29/08

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Test:	Gross Beta
Analyst:	RMD
Date:	7/28/2008
Worklist:	16770
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.228
M/B Counting Uncertainty:	0.713
MB MDC:	1.722
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/29/2008	7/29/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.343	39.343
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.671	19.671
Uncertainty (Calculated):	0.463	0.463
Result (pCi/L, g, F):	18.592	20.186
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.191	2.257
Numerical Performance Indicator:	-0.94	0.44
Percent Recovery:	94.51%	102.62%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16770
Duplicate Sample I.D.	LCSD16770
Sample Result (pCi/L, g, F):	18.592
Sample Result Counting Uncertainty (pCi/L, g, F):	2.191
Sample Duplicate Result (pCi/L, g, F):	20.186
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.257
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.993
Duplicate RPD:	8.22%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	6/25/2008
Sample I.D.	0807-0523
Sample MS I.D.	0807-0523MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.431
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.431
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.927
Sample Result:	6.272
Sample Result Counting Uncertainty (pCi/L, g, F):	1.181
Sample Matrix Spike Result:	47.444
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	3.777
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.840
MSD Numerical Performance Indicator:	
MS Percent Recovery:	104.42%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

July 25, 2008

Client Services
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 405944 FOTH
Pace Project No.: 1076611

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on July 03, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Hunter

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 405944 FOTH
Pace Project No.: 1076611

Lab ID	Sample ID	Matrix	Date Collected	Date Received
405944001	FBK-002	Water	07/02/08 00:00	07/03/08 00:00
405944002	MBR-001	Water	07/02/08 00:00	07/03/08 00:00
405944003	DUP-002	Water	07/02/08 00:00	07/03/08 00:00
405944004	EBR-001	Water	07/02/08 00:00	07/03/08 00:00
405944005	WLD-001NW	Water	07/02/08 00:00	07/03/08 00:00
405944006	WLD-001SE	Water	07/02/08 00:00	07/03/08 00:00
405944007	WBR-001	Water	07/02/08 00:00	07/03/08 00:00
405944008	WBR-002	Water	07/02/08 00:00	07/03/08 00:00
405944009	WBR-003	Water	07/02/08 00:00	07/03/08 00:00

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SAMPLE ANALYTE COUNT

Project: 405944 FOTH
Pace Project No.: 1076611

Lab ID	Sample ID	Method	Analysts	Analytes Reported
405944001	FBK-002	EPA 6020	RJS	26
405944002	MBR-001	EPA 6020	RJS	26
405944003	DUP-002	EPA 6020	RJS	26
405944004	EBR-001	EPA 6020	RJS	26
405944005	WLD-001NW	EPA 6020	RJS	26
405944006	WLD-001SE	EPA 6020	RJS	26
405944007	WBR-001	EPA 6020	RJS	26
405944008	WBR-002	EPA 6020	RJS	26
405944009	WBR-003	EPA 6020	RJS	26

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ANALYTICAL RESULTS

Project: 405944 FOTH
Pace Project No.: 1076611

Sample: FBK-002 **Lab ID: 405944001** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**26.3**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 14:59	7429-90-5	B
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:37	7440-36-0	
Arsenic	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 18:37	7440-38-2	
Barium	**<0.15**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 18:37	7440-39-3	B
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 14:59	7440-41-7	
Boron	**17.4**	ug/L	2.0	1.0	1	07/11/08 17:20	07/17/08 14:59	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:37	7440-43-9	
Calcium	**17.2J**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 18:37	7440-70-2	
Chromium	**<0.25**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 18:37	7440-47-3	
Cobalt	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:37	7440-48-4	
Copper	**0.79**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 18:37	7440-50-8	
Iron	**25.9J**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 18:37	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:37	7439-92-1	
Lithium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/17/08 14:59	7439-93-2	
Magnesium	**3.3J**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 14:59	7439-95-4	B
Manganese	**0.46J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 18:37	7439-96-5	
Molybdenum	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:37	7439-98-7	
Nickel	**0.068J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:37	7440-02-0	
Potassium	**24.1**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 18:37	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 18:37	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 18:37	7440-22-4	
Sodium	**325**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 18:37	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:37	7440-28-0	
Total Hardness by 2340B	**56.5**	ug/L	21.3	6.7	1	07/11/08 17:20	07/16/08 18:37		
Vanadium	**0.25**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:37	7440-62-2	
Zinc	**5.3**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 18:37	7440-66-6	B

Sample: MBR-001 **Lab ID: 405944002** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**131**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 15:04	7429-90-5	
Antimony	**0.084J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:46	7440-36-0	
Arsenic	**2.9**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 18:46	7440-38-2	
Barium	**14.6**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 18:46	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 15:04	7440-41-7	
Boron	**11.7**	ug/L	2.0	1.0	1	07/11/08 17:20	07/17/08 15:04	7440-42-8	B
Cadmium	**21.4**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:46	7440-43-9	
Calcium	**12200**	ug/L	100	50.0	5	07/11/08 17:20	07/16/08 18:50	7440-70-2	
Chromium	**0.79**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 18:46	7440-47-3	
Cobalt	**0.58**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:46	7440-48-4	
Copper	**0.68**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 18:46	7440-50-8	
Iron	**5240**	ug/L	250	125	5	07/11/08 17:20	07/16/08 18:50	7439-89-6	

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ANALYTICAL RESULTS

Project: 405944 FOTH
Pace Project No.: 1076611

Sample: MBR-001 **Lab ID: 405944002** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Lead	**0.66**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:46	7439-92-1	
Lithium	**1.1**	ug/L	0.10	0.050	1	07/11/08 17:20	07/17/08 15:04	7439-93-2	
Magnesium	**5140**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 15:04	7439-95-4	
Manganese	**339**	ug/L	2.5	1.2	5	07/11/08 17:20	07/16/08 18:50	7439-96-5	
Molybdenum	**1.5**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:46	7439-98-7	
Nickel	**2.6**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:46	7440-02-0	
Potassium	**834**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 18:46	7440-09-7	
Selenium	**0.34J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 18:46	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 18:46	7440-22-4	
Sodium	**8430**	ug/L	250	125	5	07/11/08 17:20	07/16/08 18:50	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:46	7440-28-0	
Total Hardness by 2340B	**51600**	ug/L	105	32.3	5	07/11/08 17:20	07/16/08 18:50		
Vanadium	**0.92**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 18:46	7440-62-2	
Zinc	**4.9J**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 18:46	7440-66-6	B

Sample: DUP-002 **Lab ID: 405944003** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**120**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 15:08	7429-90-5	
Antimony	**0.079J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7440-36-0	
Arsenic	**2.8**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:17	7440-38-2	
Barium	**13.6**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 19:17	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:17	7440-41-7	
Boron	**10.2**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 19:17	7440-42-8	B
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7440-43-9	
Calcium	**11900**	ug/L	100	50.0	5	07/11/08 17:20	07/16/08 19:21	7440-70-2	
Chromium	**1.2**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:17	7440-47-3	
Cobalt	**0.54**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7440-48-4	
Copper	**0.63**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:17	7440-50-8	
Iron	**5000**	ug/L	250	125	5	07/11/08 17:20	07/16/08 19:21	7439-89-6	
Lead	**0.56**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7439-92-1	
Lithium	**1.0**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7439-93-2	
Magnesium	**4840**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 15:08	7439-95-4	
Manganese	**311**	ug/L	2.5	1.2	5	07/11/08 17:20	07/16/08 19:21	7439-96-5	
Molybdenum	**1.5**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7439-98-7	
Nickel	**2.6**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7440-02-0	
Potassium	**825**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 19:17	7440-09-7	
Selenium	**0.33J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:17	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:17	7440-22-4	
Sodium	**8180**	ug/L	250	125	5	07/11/08 17:20	07/16/08 19:21	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7440-28-0	
Total Hardness by 2340B	**49600**	ug/L	105	32.3	5	07/11/08 17:20	07/16/08 19:21		

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ANALYTICAL RESULTS

Project: 405944 FOTH
Pace Project No.: 1076611

Sample: DUP-002 **Lab ID: 405944003** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Vanadium	**0.86**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:17	7440-62-2	
Zinc	**3.4J**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 19:17	7440-66-6	B

Sample: EBR-001 **Lab ID: 405944004** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**60.4**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 15:26	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7440-36-0	
Arsenic	**1.5**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:26	7440-38-2	
Barium	**11.2**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 19:26	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:26	7440-41-7	
Boron	**13.9**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 19:26	7440-42-8	B
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7440-43-9	
Calcium	**14200**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 19:26	7440-70-2	E
Chromium	**0.77**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:26	7440-47-3	
Cobalt	**0.18**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7440-48-4	
Copper	**0.44**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:26	7440-50-8	
Iron	**1710**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 19:26	7439-89-6	
Lead	**0.25**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7439-92-1	
Lithium	**1.3**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7439-93-2	
Magnesium	**5610**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 15:26	7439-95-4	
Manganese	**226**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:26	7439-96-5	
Molybdenum	**1.5**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7439-98-7	
Nickel	**2.0**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7440-02-0	
Potassium	**1010**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 19:26	7440-09-7	
Selenium	**0.28J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:26	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:26	7440-22-4	
Sodium	**1180**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 19:26	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7440-28-0	
Total Hardness by 2340B	**58600**	ug/L	21.3	6.7	1	07/11/08 17:20	07/16/08 19:26		
Vanadium	**0.51**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:26	7440-62-2	
Zinc	**5.8**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 19:26	7440-66-6	B

Sample: WLD-001NW **Lab ID: 405944005** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**1980**	ug/L	20.0	10.0	5	07/11/08 17:20	07/17/08 15:30	7429-90-5	
Antimony	**0.14**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7440-36-0	

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ANALYTICAL RESULTS

Project: 405944 FOTH
Pace Project No.: 1076611

Sample: WLD-001NW **Lab ID: 405944005** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Arsenic	**5.3**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:30	7440-38-2	
Barium	**45.0**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 19:30	7440-39-3	
Beryllium	**0.18J**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:30	7440-41-7	
Boron	**36.6**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 19:30	7440-42-8	
Cadmium	**0.15**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7440-43-9	
Calcium	**20500**	ug/L	1000	500	50	07/11/08 17:20	07/16/08 19:39	7440-70-2	
Chromium	**5.2**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:30	7440-47-3	
Cobalt	**8.6**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7440-48-4	
Copper	**11.6**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:30	7440-50-8	
Iron	**14900**	ug/L	2500	1250	50	07/11/08 17:20	07/16/08 19:39	7439-89-6	
Lead	**5.6**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7439-92-1	
Lithium	**1.8**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7439-93-2	
Magnesium	**9360**	ug/L	25.0	12.5	5	07/11/08 17:20	07/17/08 15:30	7439-95-4	
Manganese	**3640**	ug/L	25.0	12.5	50	07/11/08 17:20	07/16/08 19:39	7439-96-5	
Molybdenum	**1.4**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7439-98-7	
Nickel	**16.5**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7440-02-0	
Potassium	**2860**	ug/L	100	50.0	5	07/11/08 17:20	07/16/08 19:35	7440-09-7	
Selenium	**0.42J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:30	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:30	7440-22-4	
Sodium	**15400**	ug/L	2500	1250	50	07/11/08 17:20	07/16/08 19:39	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7440-28-0	
Total Hardness by 2340B	**89700**	ug/L	1050	321	50	07/11/08 17:20	07/16/08 19:39		
Vanadium	**5.2**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:30	7440-62-2	
Zinc	**253**	ug/L	25.0	12.5	5	07/11/08 17:20	07/16/08 19:35	7440-66-6	

Sample: WLD-001SE **Lab ID: 405944006** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**93.0**	ug/L	20.0	10.0	5	07/11/08 17:20	07/17/08 15:34	7429-90-5	B
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7440-36-0	
Arsenic	**1.5**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:44	7440-38-2	
Barium	**26.6**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 19:44	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:44	7440-41-7	
Boron	**53.7**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 19:44	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7440-43-9	
Calcium	**22100**	ug/L	1000	500	50	07/11/08 17:20	07/16/08 19:52	7440-70-2	
Chromium	**0.31J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:44	7440-47-3	
Cobalt	**0.42**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7440-48-4	
Copper	**0.35**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:44	7440-50-8	
Iron	**8490**	ug/L	250	125	5	07/11/08 17:20	07/16/08 19:48	7439-89-6	
Lead	**0.16**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7439-92-1	
Lithium	**1.4**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7439-93-2	

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ANALYTICAL RESULTS

Project: 405944 FOTH
Pace Project No.: 1076611

Sample: WLD-001SE **Lab ID: 405944006** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Magnesium	**9970**	ug/L	25.0	12.5	5	07/11/08 17:20	07/17/08 15:34	7439-95-4	
Manganese	**2190**	ug/L	25.0	12.5	50	07/11/08 17:20	07/16/08 19:52	7439-96-5	
Molybdenum	**0.43**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7439-98-7	
Nickel	**0.32**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7440-02-0	
Potassium	**2980**	ug/L	100	50.0	5	07/11/08 17:20	07/16/08 19:48	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:44	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:44	7440-22-4	
Sodium	**2430**	ug/L	250	125	5	07/11/08 17:20	07/16/08 19:48	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7440-28-0	
Total Hardness by 2340B	**96300**	ug/L	1050	321	50	07/11/08 17:20	07/16/08 19:52		
Vanadium	**0.52**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:44	7440-62-2	
Zinc	**14.6**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 19:44	7440-66-6	B

Sample: WBR-001 **Lab ID: 405944007** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**350**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 15:39	7429-90-5	
Antimony	**0.084J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7440-36-0	
Arsenic	**3.8**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:57	7440-38-2	
Barium	**16.2**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 19:57	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:57	7440-41-7	
Boron	**8.3**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 19:57	7440-42-8	B
Cadmium	**0.053J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7440-43-9	
Calcium	**5550**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 19:57	7440-70-2	
Chromium	**1.4**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:57	7440-47-3	
Cobalt	**0.82**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7440-48-4	
Copper	**0.91**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:57	7440-50-8	
Iron	**4220**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 19:57	7439-89-6	
Lead	**1.2**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7439-92-1	
Lithium	**0.51**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7439-93-2	
Magnesium	**2100**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 15:39	7439-95-4	
Manganese	**225**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:57	7439-96-5	
Molybdenum	**0.17**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7439-98-7	
Nickel	**1.4**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7440-02-0	
Potassium	**601**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 19:57	7440-09-7	
Selenium	**0.33J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 19:57	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 19:57	7440-22-4	
Sodium	**8560**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 19:57	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7440-28-0	
Total Hardness by 2340B	**22500**	ug/L	21.3	6.7	1	07/11/08 17:20	07/16/08 19:57		
Vanadium	**1.3**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 19:57	7440-62-2	
Zinc	**8.6**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 19:57	7440-66-6	B

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ANALYTICAL RESULTS

Project: 405944 FOTH
Pace Project No.: 1076611

Sample: WBR-002 **Lab ID: 405944008** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**40.7**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 15:43	7429-90-5	B
Antimony	**0.051J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7440-36-0	
Arsenic	**2.1**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:15	7440-38-2	
Barium	**9.2**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 20:15	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 15:43	7440-41-7	
Boron	**12.2**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 20:15	7440-42-8	B
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7440-43-9	
Calcium	**7910**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:15	7440-70-2	
Chromium	**0.95**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:15	7440-47-3	
Cobalt	**0.21**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7440-48-4	
Copper	**0.58**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:15	7440-50-8	
Iron	**5020**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:15	7439-89-6	
Lead	**0.092J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7439-92-1	
Lithium	**0.87**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7439-93-2	
Magnesium	**3770**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 15:43	7439-95-4	
Manganese	**137**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:15	7439-96-5	
Molybdenum	**0.27**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7439-98-7	
Nickel	**1.9**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7440-02-0	
Potassium	**1720**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:15	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:15	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:15	7440-22-4	
Sodium	**16400**	ug/L	50.0	25.0	1	07/11/08 17:20	07/16/08 20:15	7440-23-5	E
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7440-28-0	
Total Hardness by 2340B	**35300**	ug/L	21.3	6.7	1	07/11/08 17:20	07/16/08 20:15		
Vanadium	**0.32**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:15	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 20:15	7440-66-6	

Sample: WBR-003 **Lab ID: 405944009** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**105**	ug/L	4.0	2.0	1	07/11/08 17:20	07/17/08 15:48	7429-90-5	
Antimony	**0.081J**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7440-36-0	
Arsenic	**3.6**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:19	7440-38-2	
Barium	**18.2**	ug/L	0.30	0.15	1	07/11/08 17:20	07/16/08 20:19	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/17/08 15:48	7440-41-7	
Boron	**12.7**	ug/L	2.0	1.0	1	07/11/08 17:20	07/16/08 20:19	7440-42-8	B
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7440-43-9	
Calcium	**14000**	ug/L	100	50.0	5	07/11/08 17:20	07/16/08 20:23	7440-70-2	
Chromium	**0.73**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:19	7440-47-3	
Cobalt	**2.2**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7440-48-4	
Copper	**0.49**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:19	7440-50-8	
Iron	**10400**	ug/L	250	125	5	07/11/08 17:20	07/16/08 20:23	7439-89-6	

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ANALYTICAL RESULTS

Project: 405944 FOTH
Pace Project No.: 1076611

Sample: WBR-003 **Lab ID: 405944009** Collected: 07/02/08 00:00 Received: 07/03/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Lead	**0.22**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7439-92-1	
Lithium	**1.1**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7439-93-2	
Magnesium	**5480**	ug/L	5.0	2.5	1	07/11/08 17:20	07/17/08 15:48	7439-95-4	
Manganese	**1940**	ug/L	2.5	1.2	5	07/11/08 17:20	07/16/08 20:23	7439-96-5	
Molybdenum	**0.99**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7439-98-7	
Nickel	**2.6**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7440-02-0	
Potassium	**834**	ug/L	20.0	10.0	1	07/11/08 17:20	07/16/08 20:19	7440-09-7	
Selenium	**0.38J**	ug/L	0.50	0.25	1	07/11/08 17:20	07/16/08 20:19	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/11/08 17:20	07/16/08 20:19	7440-22-4	
Sodium	**11600**	ug/L	250	125	5	07/11/08 17:20	07/16/08 20:23	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7440-28-0	
Total Hardness by 2340B	**57400**	ug/L	105	32.3	5	07/11/08 17:20	07/16/08 20:23		
Vanadium	**0.74**	ug/L	0.10	0.050	1	07/11/08 17:20	07/16/08 20:19	7440-62-2	
Zinc	**2.8J**	ug/L	5.0	2.5	1	07/11/08 17:20	07/16/08 20:19	7440-66-6	B

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 405944 FOTH
Pace Project No.: 1076611

QC Batch: MPRP/12617 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

METHOD BLANK: 498942
Associated Lab Samples: 405944001, 405944002, 405944003, 405944004, 405944005, 405944006, 405944007, 405944008, 405944009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	5.9	4.0	B
Antimony	ug/L	<0.050	0.10	
Arsenic	ug/L	<0.10	0.20	
Barium	ug/L	0.88	0.30	B
Beryllium	ug/L	<0.10	0.20	
Boron	ug/L	1.6J	2.0	B
Cadmium	ug/L	<0.050	0.10	
Calcium	ug/L	<10.0	20.0	
Chromium	ug/L	<0.25	0.50	
Cobalt	ug/L	<0.050	0.10	
Copper	ug/L	<0.10	0.20	
Iron	ug/L	33.9J	50.0	B
Lead	ug/L	<0.050	0.10	
Lithium	ug/L	<0.050	0.10	
Magnesium	ug/L	4.4J	5.0	P8
Manganese	ug/L	<0.25	0.50	
Molybdenum	ug/L	<0.050	0.10	
Nickel	ug/L	<0.050	0.10	
Potassium	ug/L	<10.0	20.0	
Selenium	ug/L	<0.25	0.50	
Silver	ug/L	<0.10	0.20	
Sodium	ug/L	<25.0	50.0	
Thallium	ug/L	<0.050	0.10	
Total Hardness by 2340B	ug/L	31.3	21.3	
Vanadium	ug/L	<0.050	0.10	
Zinc	ug/L	3.7J	5.0	B

LABORATORY CONTROL SAMPLE: 498943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	84.6	106	85-115	
Antimony	ug/L	80	81.5	102	85-115	
Arsenic	ug/L	80	76.2	95	85-115	
Barium	ug/L	80	81.0	101	85-115	
Beryllium	ug/L	80	84.7	106	85-115	
Boron	ug/L	80	90.8	114	85-115	
Cadmium	ug/L	80	78.4	98	85-115	
Calcium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	80	80.2	100	85-115	
Cobalt	ug/L	80	78.1	98	85-115	
Copper	ug/L	80	78.6	98	85-115	

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(612)607-1700

QUALITY CONTROL DATA

Project: 405944 FOTH
Pace Project No.: 1076611

LABORATORY CONTROL SAMPLE: 498943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1000	1050	105	85-115	
Lead	ug/L	80	79.3	99	85-115	
Lithium	ug/L	80	88.1	110	85-115	
Magnesium	ug/L	1000	1060	106	85-115	
Manganese	ug/L	80	81.9	102	85-115	
Molybdenum	ug/L	80	78.2	98	85-115	
Nickel	ug/L	80	78.7	98	85-115	
Potassium	ug/L	1000	983	98	85-115	
Selenium	ug/L	160	149	93	85-115	
Silver	ug/L	80	109	137	85-115	L1
Sodium	ug/L	1000	913	91	85-115	
Thallium	ug/L	80	79.7	100	85-115	
Total Hardness by 2340B	ug/L		6880			
Vanadium	ug/L	80	80.3	100	85-115	
Zinc	ug/L	80	77.7	97	85-115	

MATRIX SPIKE SAMPLE: 498944

Parameter	Units	405913001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	2.4J	80	77.3	94	70-130	
Antimony	ug/L	1.1	80	84.5	104	70-130	
Arsenic	ug/L	0.38	80	78.2	97	70-130	
Barium	ug/L	23.1	80	103	100	70-130	
Beryllium	ug/L	<0.10	80	79.0	99	70-130	
Boron	ug/L	938	80	658	-350	70-130	P6
Cadmium	ug/L	0.18	80	77.6	97	70-130	
Calcium	ug/L	112000	1000	105000	-626	70-130	P6
Chromium	ug/L	6.1	80	86.8	101	70-130	
Cobalt	ug/L	14.6	80	90.2	95	70-130	
Copper	ug/L	16.0	80	91.3	94	70-130	
Iron	ug/L	68.9	1000	1120	105	70-130	
Lead	ug/L	<0.050	80	81.5	102	70-130	
Lithium	ug/L	11.8	80	94.4	103	70-130	
Magnesium	ug/L	88100	1000	75800	-1230	70-130	P6
Manganese	ug/L	63.9	80	143	99	70-130	
Molybdenum	ug/L	80.7	80	156	95	70-130	
Nickel	ug/L	701	80	772	89	70-130	
Potassium	ug/L	36800	1000	36200	-65	70-130	P6
Selenium	ug/L	1.5	160	155	96	70-130	
Silver	ug/L	0.13J	80	99.8	125	70-130	
Sodium	ug/L	96500	1000	91200	-532	70-130	P6
Thallium	ug/L	<0.050	80	79.0	99	70-130	
Total Hardness by 2340B	ug/L	641000		575000			
Vanadium	ug/L	0.18	80	81.9	102	70-130	
Zinc	ug/L	2.6J	80	97.3	118	70-130	

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QUALITY CONTROL DATA

Project: 405944 FOTH
Pace Project No.: 1076611

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 498945 498946

Parameter	Units	405916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	20.5	80	80	106	94.4	107	92	70-130	12	20	
Antimony	ug/L	<0.050	80	80	81.7	82.5	102	103	70-130	1	20	
Arsenic	ug/L	0.24	80	80	77.1	79.3	96	99	70-130	3	20	
Barium	ug/L	9.7	80	80	90.0	90.8	100	101	70-130	.8	20	
Beryllium	ug/L	<0.10	80	80	77.2	72.3	97	90	70-130	7	20	
Boron	ug/L	9.1	80	80	90.3	91.0	101	102	70-130	.8	20	
Cadmium	ug/L	<0.050	80	80	78.9	80.0	99	100	70-130	1	20	
Calcium	ug/L	5320	1000	1000	6070	5940	74	61	70-130	2	20	P6
Chromium	ug/L	0.49J	80	80	81.0	81.4	101	101	70-130	.5	20	
Cobalt	ug/L	<0.050	80	80	78.1	78.1	98	98	70-130	.04	20	
Copper	ug/L	<0.10	80	80	79.3	79.3	99	99	70-130	.003	20	
Iron	ug/L	2610	1000	1000	3460	3420	85	81	70-130	.9	20	
Lead	ug/L	0.071J	80	80	79.7	81.3	99	102	70-130	2	20	
Lithium	ug/L	0.18	80	80	85.0	82.6	106	103	70-130	3	20	
Magnesium	ug/L	1060	1000	1000	2080	1970	101	90	70-130	5	20	
Manganese	ug/L	18.0	80	80	99.1	97.2	101	99	70-130	2	20	
Molybdenum	ug/L	<0.050	80	80	77.7	78.7	97	98	70-130	1	20	
Nickel	ug/L	0.20	80	80	78.9	77.6	98	97	70-130	2	20	
Potassium	ug/L	360	1000	1000	1350	1360	99	99	70-130	.6	20	
Selenium	ug/L	<0.25	160	160	152	155	95	97	70-130	2	20	
Silver	ug/L	<0.10	80	80	108	110	135	137	70-130	2	20	M0
Sodium	ug/L	461	1000	1000	1320	1310	86	85	70-130	.9	20	
Thallium	ug/L	<0.050	80	80	77.9	79.5	97	99	70-130	2	20	
Total Hardness by 2340B	ug/L	17700			23700	22900				3	20	
Vanadium	ug/L	0.25	80	80	79.7	80.5	99	100	70-130	1	20	
Zinc	ug/L	<2.5	80	80	78.0	78.1	97	97	70-130	.2	20	

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QUALIFIERS

Project: 405944 FOTH
Pace Project No.: 1076611

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: ICPM/4961

[1] The samples were originally digested on 7/11/08. Due to analyst error the digests could not be analyed. The sample batch was re-digested on 7/15/08 and analyzed on 7/16/08 and 7/17/08.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
P8	Analyte was detected in the method blank. All associated samples had concentrations of at least ten times greater than the blank or were below the reporting limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 405944 FOTH
Pace Project No.: 1076611

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405944001	**FBK-002**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405944002	**MBR-001**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405944003	**DUP-002**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405944004	**EBR-001**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405944005	**WLD-001NW**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405944006	**WLD-001SE**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405944007	**WBR-001**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405944008	**WBR-002**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961
405944009	**WBR-003**	EPA 3020	MPRP/12617	EPA 6020	ICPM/4961

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Sample Condition Upon Receipt

Pace Analytical

Client Name: Neth Jackson/Foth Project # 405944

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/3/08

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. NITRATE
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed ✓ / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AH **Date:** 7/3/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20080702

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ZnNaOH	Analysis Test Y/N	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																				N	N	N	N	N	N	N	Y	N					
1	FBK-002	001	WT	-			07/02/08	945		11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
2	MBR-001	002	WT	G			7/2/08	920	19.2	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
3	DUP-002	003	WT	G			7/2/08	—	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
4	EBR-001	004	WT	G			7/2/08	1040	19.3	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
5	WLD-001NW	005	WT	G			7/2/08	1230	15.8	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
6	WLD-001SE	006	WT	G			7/2/08	1200	19.0	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
7	WBR-001	007	WT	G			7/2/08	1410	18.8	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
8	WBR-002	008	WT	G			7/2/08	1330	22.9	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
9	WBR-003	009	WT	G			7/2/08	1115	18.9	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2					
10																																	
11																																	
12																																	

405944

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Curt Sheffield	7/2/08	600			
	FEDEX	7/3/08	950		7/3/08	950

SAMPLE CONDITIONS	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	1	Y	N	Y

FED EX. 7989 7288 7267
7900 4583 0854
7984 7294 5627
7905 3794 4734

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Curt Sheffield Richard R Eagly

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 07/02/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Batch No. 406074

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

July 30, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL
Pace Project No.: 406074

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: HUMBOLDT MILL
Pace Project No.: 406074

Lab ID	Sample ID	Matrix	Date Collected	Date Received
406074001	**FBK-003**	Water	07/07/08 13:15	07/08/08 09:30
406074002	**DUP-003**	Water	07/07/08 00:00	07/08/08 09:30
406074003	**HTP-002**	Water	07/07/08 09:50	07/08/08 09:30
406074004	**LKL-001**	Water	07/07/08 12:25	07/08/08 09:30
406074005	**LKL-002**	Water	07/07/08 11:35	07/08/08 09:30
406074006	**MER-001**	Water	07/07/08 14:35	07/08/08 09:30
406074007	**MER-002**	Water	07/07/08 15:15	07/08/08 09:30
406074008	**MER-003**	Water	07/07/08 15:15	07/08/08 09:30

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
406074001	FBK-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406074002	DUP-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406074003	HTP-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406074004	LKL-001	EPA 1631E	GMW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406074005	LKL-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406074006	MER-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406074007	MER-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406074008	**MER-003**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1802

R1: RPD value was outside control limits.

- DUP (Lab ID: 50159)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1904

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 406074002

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 50044)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1905

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 406074002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 50047)
  - Chloride
  - Fluoride
  - Sulfate
- MSD (Lab ID: 50048)
  - Chloride
  - Fluoride
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1942

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 405944004,406074002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 52052)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
8 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Sample: FBK-003 **Lab ID: 406074001** Collected: 07/07/08 13:15 Received: 07/08/08 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.204J**	ng/L	0.50	0.16	1	07/10/08 13:30	07/16/08 15:41	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.49J**	NTU	1.0	0.44	1		07/09/08 11:34		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:31		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:31		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		07/09/08 14:58		R1
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.15J**	mg/L	0.40	0.085	1		07/08/08 20:21	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/09/08 00:37	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		07/08/08 20:21	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		07/08/08 20:21	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		07/08/08 20:21	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:27	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:24	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		07/15/08 13:21	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.0**	mg/L	2.0	1.4	1		07/14/08 08:02		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Sample: DUP-003 **Lab ID: 406074002** Collected: 07/07/08 00:00 Received: 07/08/08 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.05**	ng/L	0.50	0.16	1	07/10/08 13:30	07/21/08 10:07	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.2**	NTU	1.0	0.44	1		07/09/08 11:34		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**33.0**	mg/L	10.0	3.2	1		07/10/08 14:31		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:31		
Alkalinity, Total as CaCO3	**33.0**	mg/L	10.0	3.2	1		07/10/08 14:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**52.0**	mg/L	20.0	12.0	1		07/09/08 14:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.0**	mg/L	1.5	0.47	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/08/08 20:35	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/09/08 00:51	14797-65-0	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.6J**	mg/L	5.0	1.1	1		07/08/08 20:35	16887-00-6	M0
Fluoride	**0.22J**	mg/L	0.50	0.059	1		07/08/08 20:35	16984-48-8	M0
Sulfate	**3.7J**	mg/L	4.0	0.51	1		07/08/08 20:35	14808-79-8	M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:28	57-12-5	M0
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:24	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**24.1J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**8.8**	mg/L	2.0	1.4	1		07/15/08 13:45	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**8.2**	mg/L	2.0	1.4	1		07/14/08 08:30		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Sample: HTP-002 **Lab ID: 406074003** Collected: 07/07/08 09:50 Received: 07/08/08 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.31**	ng/L	0.50	0.16	1	07/10/08 13:30	07/21/08 10:23	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.8**	NTU	1.0	0.44	1		07/09/08 11:34		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**52.8**	mg/L	10.0	3.2	1		07/10/08 14:31		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:31		
Alkalinity, Total as CaCO3	**52.8**	mg/L	10.0	3.2	1		07/10/08 14:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**80.0**	mg/L	20.0	12.0	1		07/09/08 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.3**	mg/L	1.7	0.52	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/08/08 21:18	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/09/08 01:33	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5J**	mg/L	5.0	1.1	1		07/08/08 21:18	16887-00-6	
Fluoride	**0.28J**	mg/L	0.50	0.059	1		07/08/08 21:18	16984-48-8	
Sulfate	**3.4J**	mg/L	4.0	0.51	1		07/08/08 21:18	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:32	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:25	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**26.4J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**8.6**	mg/L	2.0	1.4	1		07/15/08 14:00	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**9.7**	mg/L	2.0	1.4	1		07/14/08 08:36		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Sample: LKL-001 **Lab ID: 406074004** Collected: 07/07/08 12:25 Received: 07/08/08 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.64**	ng/L	0.50	0.16	1	07/10/08 13:30	07/21/08 10:22	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.3**	NTU	1.0	0.44	1		07/09/08 11:35		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**30.8**	mg/L	10.0	3.2	1		07/10/08 14:32		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:32		
Alkalinity, Total as CaCO3	**30.8**	mg/L	10.0	3.2	1		07/10/08 14:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**56.0**	mg/L	20.0	12.0	1		07/09/08 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.0**	mg/L	1.0	0.31	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/08/08 21:32	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/09/08 01:47	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5J**	mg/L	5.0	1.1	1		07/08/08 21:32	16887-00-6	
Fluoride	**0.23J**	mg/L	0.50	0.059	1		07/08/08 21:32	16984-48-8	
Sulfate	**3.7J**	mg/L	4.0	0.51	1		07/08/08 21:32	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:33	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:26	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**28.6J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**8.2**	mg/L	2.0	1.4	1		07/15/08 14:05	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**8.6**	mg/L	2.0	1.4	1		07/14/08 08:48		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Sample: LKL-002 **Lab ID: 406074005** Collected: 07/07/08 11:35 Received: 07/08/08 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.02**	ng/L	0.50	0.16	1	07/10/08 13:30	07/21/08 10:30	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.5**	NTU	1.0	0.44	1		07/09/08 11:35		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**30.8**	mg/L	10.0	3.2	1		07/10/08 14:32		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:32		
Alkalinity, Total as CaCO3	**30.8**	mg/L	10.0	3.2	1		07/10/08 14:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**56.0**	mg/L	20.0	12.0	1		07/09/08 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.3**	mg/L	1.0	0.31	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/08/08 21:46	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/09/08 02:02	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.6J**	mg/L	5.0	1.1	1		07/08/08 21:46	16887-00-6	
Fluoride	**0.23J**	mg/L	0.50	0.059	1		07/08/08 21:46	16984-48-8	
Sulfate	**3.8J**	mg/L	4.0	0.51	1		07/08/08 21:46	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:37	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:27	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**28.6J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**20.6**	mg/L	2.0	1.4	1		07/15/08 14:32	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**8.3**	mg/L	2.0	1.4	1		07/14/08 08:53		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Sample: MER-001 **Lab ID: 406074006** Collected: 07/07/08 14:35 Received: 07/08/08 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**4.80**	ng/L	0.50	0.16	1	07/10/08 13:30	07/21/08 10:35	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.5**	NTU	1.0	0.44	1		07/09/08 11:36		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**24.2**	mg/L	10.0	3.2	1		07/10/08 14:32		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:32		
Alkalinity, Total as CaCO3	**24.2**	mg/L	10.0	3.2	1		07/10/08 14:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**88.0**	mg/L	20.0	12.0	1		07/09/08 15:01		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.6**	mg/L	1.0	0.31	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.17J**	mg/L	0.40	0.085	1		07/08/08 22:01	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/09/08 02:16	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**6.8**	mg/L	5.0	1.1	1		07/08/08 22:01	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		07/08/08 22:01	16984-48-8	
Sulfate	**5.2**	mg/L	4.0	0.51	1		07/08/08 22:01	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:38	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:27	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**46.4J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**16.5**	mg/L	2.0	1.4	1		07/15/08 14:17	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**18.5**	mg/L	2.0	1.4	1		07/14/08 09:00		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Sample: MER-002 **Lab ID: 406074007** Collected: 07/07/08 15:15 Received: 07/08/08 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**4.58**	ng/L	0.50	0.16	1	07/10/08 13:30	07/21/08 10:51	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**5.7**	NTU	1.0	0.44	1		07/09/08 11:36		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO3)	**28.6**	mg/L	10.0	3.2	1		07/10/08 14:33		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:33		
Alkalinity, Total as CaCO3	**28.6**	mg/L	10.0	3.2	1		07/10/08 14:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**96.0**	mg/L	20.0	12.0	1		07/09/08 15:01		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.7**	mg/L	1.0	0.31	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		07/08/08 22:15	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/09/08 02:58	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**8.2**	mg/L	5.0	1.1	1		07/08/08 22:15	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		07/08/08 22:15	16984-48-8	
Sulfate	**7.0**	mg/L	4.0	0.51	1		07/08/08 22:15	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:39	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:30	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**77.7**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**21.5**	mg/L	2.0	1.4	1		07/15/08 14:23	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**15.3**	mg/L	2.0	1.4	1		07/14/08 09:10		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406074

Sample: MER-003 **Lab ID: 406074008** Collected: 07/07/08 15:15 Received: 07/08/08 09:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**4.53**	ng/L	0.50	0.16	1	07/10/08 13:30	07/21/08 10:57	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**5.6**	NTU	1.0	0.44	1		07/09/08 11:36		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**28.6**	mg/L	10.0	3.2	1		07/10/08 14:33		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:33		
Alkalinity, Total as CaCO3	**28.6**	mg/L	10.0	3.2	1		07/10/08 14:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**104**	mg/L	20.0	12.0	1		07/09/08 15:01		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.0**	mg/L	1.0	0.31	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		07/08/08 22:57	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/09/08 03:12	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.4**	mg/L	5.0	1.1	1		07/08/08 22:57	16887-00-6	
Fluoride	**0.20J**	mg/L	0.50	0.059	1		07/08/08 22:57	16984-48-8	
Sulfate	**8.5**	mg/L	4.0	0.51	1		07/08/08 22:57	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/15/08 16:39	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:31	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**48.7J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**15.0**	mg/L	2.0	1.4	1		07/15/08 14:29	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**14.7**	mg/L	2.0	1.4	1		07/14/08 09:15		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WETA/1904 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50041
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 50042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.5	96	90-110	
Nitrite as N	mg/L	.8	0.74	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50043 50044

Parameter	Units	406074002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.085	1.6	1.6	1.5	1.5	94	95	90-110	1	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.73	0.70	91	88	90-110	4	20	MO

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WETA/1905 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50045
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<1.1	5.0	
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	<0.51	4.0	

LABORATORY CONTROL SAMPLE: 50046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.7	93	90-110	
Fluoride	mg/L	2	1.9	94	90-110	
Sulfate	mg/L	16	15.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50047 50048

Parameter	Units	406074002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.6J	20	20	19.3	19.2	83	83	90-110	.6	20	M0
Fluoride	mg/L	0.22J	2	2	2.0	2.0	89	88	90-110	2	20	M0
Sulfate	mg/L	3.7J	16	16	17.7	17.9	87	89	90-110	1	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WET/1799 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50099
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 50100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	530	530	100		

SAMPLE DUPLICATE: 50101

Parameter	Units	406074002 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	1.2	1.2	.8	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WET/1802 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50157
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	12.0J	20.0	

LABORATORY CONTROL SAMPLE: 50158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1060	1060	100	80-120	

SAMPLE DUPLICATE: 50159

Parameter	Units	406074001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<12.0	<12.0	133	10	R1

SAMPLE DUPLICATE: 50160

Parameter	Units	406127004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	332	340	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WET/1807 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50375
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 50376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	310	278	90	80-120	

SAMPLE DUPLICATE: 50377

Parameter	Units	406054001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	23.8	25.2	6	10	

SAMPLE DUPLICATE: 50378

Parameter	Units	406114001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	95.3	92.7	3	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WET/1808 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50749
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 50750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50751 50752

Parameter	Units	406074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	<3.2	500	500	504	491	100	98	80-120	3	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WET/1809 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50753
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE: 50754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	45.6	44.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50755 50756

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.3	45.6	45.6	40.8	42.4	89	93	80-120	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WETA/1921 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50860
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 50861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50862 50863

Parameter	Units	406074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	5.0	100	100	119	116	114	111	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51177 51178

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.0	100	100	117	116	115	114	80-120	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WETA/1924 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 50896
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 50897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50898 50899

Parameter	Units	406074008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.8	10.9	107	109	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50900 50901

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.6	10.5	105	104	90-110	.4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WETA/1936 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 51702
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 51703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	98.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51704 51705

Parameter	Units	405944001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	<1.4	100	100	116	117	116	117	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51706 51707

Parameter	Units	406074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	<1.4	100	100	117	118	117	118	80-120	.9	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WETA/1942
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 406074001, 406074002

METHOD BLANK: 52048
Associated Lab Samples: 406074001, 406074002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 52049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52050 52051

Parameter	Units	405944004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	102	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52052 52053

Parameter	Units	406074002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.12	0.11	111	102	90-110	8	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WETA/1943 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 52058
Associated Lab Samples: 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 52059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52060 52061

Parameter	Units	406104001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	100	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52062 52063

Parameter	Units	406127005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0080J	.1	.1	0.10	0.11	96	99	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: WETA/1948 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 52200
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 52201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	504	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52202 52203

Parameter	Units	406102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	41.8J	526	526	585	575	103	101	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52204 52205

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	11.3J	526	526	557	545	104	101	90-110	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: CVFS/1144
QC Batch Method: EPA 1631E
Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury
Associated Lab Samples: 406074001

METHOD BLANK: 52708
Associated Lab Samples: 406074001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.227J	0.50	

METHOD BLANK: 52709
Associated Lab Samples: 406074001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 52710
Associated Lab Samples: 406074001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 52711 52712

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.11	5.41	102	108	79-121	6	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52713 52714

Parameter	Units	405967003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	78.3	200	200	280	297	101	110	75-125	6	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52715 52716

Parameter	Units	405967006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	2.84	10	10	10.6	11.1	77	82	75-125	5	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406074

QC Batch: CVFS/1148 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 54257
Associated Lab Samples: 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.260J	0.50	

METHOD BLANK: 54258
Associated Lab Samples: 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.389J	0.50	

METHOD BLANK: 54259
Associated Lab Samples: 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.301J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 54260 54261

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.11	5.22	102	104	79-121	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54262 54263

Parameter	Units	406074007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	4.58	20	20	26.2	24.1	108	98	75-125	8	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54264 54265

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	0.527	2.5	2.5	2.76	2.76	89	89	75-125	.05	24	

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: HUMBOLDT MILL
Pace Project No.: 406074

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406074001	FBK-003	EPA 300.0	WETA/1904		
406074002	DUP-003	EPA 300.0	WETA/1904		
406074003	HTP-002	EPA 300.0	WETA/1904		
406074004	LKL-001	EPA 300.0	WETA/1904		
406074005	LKL-002	EPA 300.0	WETA/1904		
406074006	MER-001	EPA 300.0	WETA/1904		
406074007	MER-002	EPA 300.0	WETA/1904		
406074008	MER-003	EPA 300.0	WETA/1904		
406074001	FBK-003	EPA 300.0	WETA/1905		
406074002	DUP-003	EPA 300.0	WETA/1905		
406074003	HTP-002	EPA 300.0	WETA/1905		
406074004	LKL-001	EPA 300.0	WETA/1905		
406074005	LKL-002	EPA 300.0	WETA/1905		
406074006	MER-001	EPA 300.0	WETA/1905		
406074007	MER-002	EPA 300.0	WETA/1905		
406074008	MER-003	EPA 300.0	WETA/1905		
406074001	FBK-003	SM 2130B	WET/1799		
406074002	DUP-003	SM 2130B	WET/1799		
406074003	HTP-002	SM 2130B	WET/1799		
406074004	LKL-001	SM 2130B	WET/1799		
406074005	LKL-002	SM 2130B	WET/1799		
406074006	MER-001	SM 2130B	WET/1799		
406074007	MER-002	SM 2130B	WET/1799		
406074008	MER-003	SM 2130B	WET/1799		
406074001	FBK-003	SM 2540C	WET/1802		
406074002	DUP-003	SM 2540C	WET/1802		
406074003	HTP-002	SM 2540C	WET/1802		
406074004	LKL-001	SM 2540C	WET/1802		
406074005	LKL-002	SM 2540C	WET/1802		
406074006	MER-001	SM 2540C	WET/1802		
406074007	MER-002	SM 2540C	WET/1802		
406074008	MER-003	SM 2540C	WET/1802		
406074001	FBK-003	SM 2540D	WET/1807		
406074002	DUP-003	SM 2540D	WET/1807		
406074003	HTP-002	SM 2540D	WET/1807		
406074004	LKL-001	SM 2540D	WET/1807		
406074005	LKL-002	SM 2540D	WET/1807		
406074006	MER-001	SM 2540D	WET/1807		
406074007	MER-002	SM 2540D	WET/1807		
406074008	MER-003	SM 2540D	WET/1807		
406074001	FBK-003	SM 2320B	WET/1808		
406074002	DUP-003	SM 2320B	WET/1808		
406074003	HTP-002	SM 2320B	WET/1808		
406074004	LKL-001	SM 2320B	WET/1808		
406074005	LKL-002	SM 2320B	WET/1808		
406074006	MER-001	SM 2320B	WET/1808		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406074007	MER-002	SM 2320B	WET/1808		
406074008	MER-003	SM 2320B	WET/1808		
406074001	FBK-003	SM 4500-S F (2000)	WET/1809		
406074002	DUP-003	SM 4500-S F (2000)	WET/1809		
406074003	HTP-002	SM 4500-S F (2000)	WET/1809		
406074004	LKL-001	SM 4500-S F (2000)	WET/1809		
406074005	LKL-002	SM 4500-S F (2000)	WET/1809		
406074006	MER-001	SM 4500-S F (2000)	WET/1809		
406074007	MER-002	SM 4500-S F (2000)	WET/1809		
406074008	MER-003	SM 4500-S F (2000)	WET/1809		
406074001	FBK-003	SM 5310C	WETA/1921		
406074002	DUP-003	SM 5310C	WETA/1921		
406074003	HTP-002	SM 5310C	WETA/1921		
406074004	LKL-001	SM 5310C	WETA/1921		
406074005	LKL-002	SM 5310C	WETA/1921		
406074006	MER-001	SM 5310C	WETA/1921		
406074007	MER-002	SM 5310C	WETA/1921		
406074008	MER-003	SM 5310C	WETA/1921		
406074001	FBK-003	EPA 350.1	WETA/1924		
406074002	DUP-003	EPA 350.1	WETA/1924		
406074003	HTP-002	EPA 350.1	WETA/1924		
406074004	LKL-001	EPA 350.1	WETA/1924		
406074005	LKL-002	EPA 350.1	WETA/1924		
406074006	MER-001	EPA 350.1	WETA/1924		
406074007	MER-002	EPA 350.1	WETA/1924		
406074008	MER-003	EPA 350.1	WETA/1924		
406074001	FBK-003	SM 5310C	WETA/1936		
406074002	DUP-003	SM 5310C	WETA/1936		
406074003	HTP-002	SM 5310C	WETA/1936		
406074004	LKL-001	SM 5310C	WETA/1936		
406074005	LKL-002	SM 5310C	WETA/1936		
406074006	MER-001	SM 5310C	WETA/1936		
406074007	MER-002	SM 5310C	WETA/1936		
406074008	MER-003	SM 5310C	WETA/1936		
406074001	FBK-003	EPA 335.4	WETA/1942		
406074002	DUP-003	EPA 335.4	WETA/1942		
406074003	HTP-002	EPA 335.4	WETA/1943		
406074004	LKL-001	EPA 335.4	WETA/1943		
406074005	LKL-002	EPA 335.4	WETA/1943		
406074006	MER-001	EPA 335.4	WETA/1943		
406074007	MER-002	EPA 335.4	WETA/1943		
406074008	MER-003	EPA 335.4	WETA/1943		
406074001	FBK-003	EPA 410.4	WETA/1948		
406074002	DUP-003	EPA 410.4	WETA/1948		
406074003	HTP-002	EPA 410.4	WETA/1948		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406074004	**LKL-001**	EPA 410.4	WETA/1948		
406074005	**LKL-002**	EPA 410.4	WETA/1948		
406074006	**MER-001**	EPA 410.4	WETA/1948		
406074007	**MER-002**	EPA 410.4	WETA/1948		
406074008	**MER-003**	EPA 410.4	WETA/1948		
406074001	**FBK-003**	EPA 1631E	CVFS/1144	EPA 1631E	CVFS/1145
406074002	**DUP-003**	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406074003	**HTP-002**	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406074004	**LKL-001**	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406074005	**LKL-002**	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406074006	**MER-001**	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406074007	**MER-002**	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406074008	**MER-003**	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149

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Phone: 724.850.5600
Fax: 724.850.5601

July 30, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Water Characterization
406074 Foth & Van Dyke
Pace Project No. 08-2946

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on July 14, 2008 and logged in for analysis on July 15, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2946
CLIENT: 406074 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0807-0602	FBK-003	0807-0603	DUP-003
0807-0604	HTP-002	0807-0605	LKL-001
0807-0606	LKL-002	0807-0607	MER-001
0807-0608	MER-002	0807-0609	MER-003

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2946
Water Characterization; 406074 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0602	FBK-003	(7/7/08)	07/19/08	0.058 ± 0.481	(1.35)
0807-0603	DUP-003	(7/7/08)	07/30/08	0.114 ± 0.473	(1.17)
0807-0604	HTP-002	(7/7/08)	07/30/08	-0.019 ± 0.361	(1.02)
0807-0605	LKL-001	(7/7/08)	07/30/08	-1.36 ± 0.530	(1.96)
0807-0606	LKL-002	(7/7/08)	07/30/08	0.148 ± 0.472	(1.14)
0807-0607	MER-001	(7/7/08)	07/30/08	0.619 ± 0.560	(0.974)
0807-0608	MER-002	(7/7/08)	07/30/08	0.581 ± 0.694	(1.41)
0807-0609	MER-003	(7/7/08)	07/30/08	0.599 ± 0.597	(1.10)
0807-0610	Method Blank	(7/14/08)	07/30/08	-0.499 ± 0.346	(1.30)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc (MDC)	
0807-0602	FBK-003	(7/7/08)	07/19/08	0.928 ± 0.828	(1.67)
0807-0603	DUP-003	(7/7/08)	07/30/08	0.395 ± 0.621	(1.36)
0807-0604	HTP-002	(7/7/08)	07/30/08	1.64 ± 0.781	(1.30)
0807-0605	LKL-001	(7/7/08)	07/30/08	1.70 ± 0.775	(1.31)
0807-0606	LKL-002	(7/7/08)	07/30/08	0.672 ± 0.632	(1.28)
0807-0607	MER-001	(7/7/08)	07/30/08	0.928 ± 0.716	(1.39)
0807-0608	MER-002	(7/7/08)	07/30/08	1.36 ± 0.779	(1.40)
0807-0609	MER-003	(7/7/08)	07/30/08	-0.204 ± 0.620	(1.50)
0807-0610	Method Blank	(7/14/08)	07/30/08	-0.282 ± 0.517	(1.34)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Quality Control Sample Performance Assessment

Test:	Gross Alpha
Analyst:	RMD
Date:	7/30/2008
Worklist:	16788
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.499
M/B Counting Uncertainty:	0.334
MB MDC:	1.299
MB Numerical Performance Indicator:	-2.93
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/30/2008	7/30/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	43.817	44.158
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	3.451	3.476
Numerical Performance Indicator:	-0.93	-0.77
Percent Recovery:	95.47%	96.21%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	7/7/2008
Sample I.D.	0807-0603
Sample MS I.D.	0807-0603MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	91.795
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.398
Sample Result:	0.114
Sample Result Counting Uncertainty (pCi/L, g, F):	0.472
Sample Matrix Spike Result:	88.544
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	5.103
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-0.886
MSD Numerical Performance Indicator:	
MS Percent Recovery:	96.33%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS16788
Duplicate Sample I.D.	LCSD16788
Sample Result (pCi/L, g, F):	43.817
Sample Result Counting Uncertainty (pCi/L, g, F):	3.451
Sample Duplicate Result (pCi/L, g, F):	44.158
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.476
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.136
Duplicate RPD:	0.78%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

7/30/08

0005

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Gross Beta
Analyst:	RMD
Date:	7/30/2008
Worklist:	16788
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.282
M/B Counting Uncertainty:	0.515
MB MDC:	1.344
MB Numerical Performance Indicator:	-1.07
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/30/2008	7/30/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.340	39.340
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.670	19.670
Uncertainty (Calculated):	0.463	0.463
Result (pCi/L, g, F):	18.627	20.056
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.004	2.022
Numerical Performance Indicator:	-0.99	0.36
Percent Recovery:	94.70%	101.96%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	7/7/2008
Sample I.D.	0807-0603
Sample MS I.D.	0807-0603MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.400
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.400
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.927
Sample Result:	0.395
Sample Result Counting Uncertainty (pCi/L, g, F):	0.617
Sample Matrix Spike Result:	38.135
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	2.727
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-1.105
MSD Numerical Performance Indicator:	
MS Percent Recovery:	95.79%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS16788
Duplicate Sample I.D.	LCSD16788
Sample Result (pCi/L, g, F):	18.627
Sample Result Counting Uncertainty (pCi/L, g, F):	2.004
Sample Duplicate Result (pCi/L, g, F):	20.056
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.022
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.984
Duplicate RPD:	7.39%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

07/30/08

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

July 25, 2008

Client Services
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 406074 FOTH
Pace Project No.: 1076726

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julie Thieschafer for
Sylvia Hunter
sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 406074 FOTH
Pace Project No.: 1076726

Lab ID	Sample ID	Matrix	Date Collected	Date Received
406074001	FBK-003	Water	07/07/08 00:00	07/08/08 00:00
406074002	DUP-003	Water	07/07/08 00:00	07/08/08 00:00
406074003	HTP-002	Water	07/07/08 00:00	07/08/08 00:00
406074004	LKL-001	Water	07/07/08 00:00	07/08/08 00:00
406074005	LKL-002	Water	07/07/08 00:00	07/08/08 00:00
406074006	MER-001	Water	07/07/08 00:00	07/08/08 00:00
406074007	MER-002	Water	07/07/08 00:00	07/08/08 00:00
406074008	MER-003	Water	07/07/08 00:00	07/08/08 00:00

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SAMPLE ANALYTE COUNT

Project: 406074 FOTH
Pace Project No.: 1076726

Lab ID	Sample ID	Method	Analysts	Analytes Reported
406074001	FBK-003	EPA 6020	RJS	26
406074002	DUP-003	EPA 6020	RJS	26
406074003	HTP-002	EPA 6020	RJS	26
406074004	LKL-001	EPA 6020	RJS	26
406074005	LKL-002	EPA 6020	RJS	26
406074006	MER-001	EPA 6020	RJS	26
406074007	MER-002	EPA 6020	RJS	26
406074008	MER-003	EPA 6020	RJS	26

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ANALYTICAL RESULTS

Project: 406074 FOTH
Pace Project No.: 1076726

Sample: FBK-003 **Lab ID: 406074001** Collected: 07/07/08 00:00 Received: 07/08/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**<2.0**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 17:10	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7440-36-0	
Arsenic	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:10	7440-38-2	
Barium	**0.16J**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 17:10	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:10	7440-41-7	
Boron	**3.1**	ug/L	2.0	1.0	1	07/21/08 12:15	07/22/08 17:10	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7440-43-9	
Calcium	**19.9J**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 17:10	7440-70-2	
Chromium	**0.48J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:10	7440-47-3	
Cobalt	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7440-48-4	
Copper	**1.0**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:10	7440-50-8	
Iron	**<25.0**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 17:10	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7439-92-1	
Lithium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7439-93-2	
Magnesium	**8.4**	ug/L	5.0	2.5	1	07/21/08 12:15	07/23/08 11:00	7439-95-4	
Manganese	**3.0**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:10	7439-96-5	
Molybdenum	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7439-98-7	
Nickel	**0.20**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7440-02-0	
Potassium	**20.9**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 17:10	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:10	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:10	7440-22-4	
Sodium	**475**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 17:10	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7440-28-0	
Total Hardness by 2340B	**84.1**	ug/L	25.0	12.5	1	07/21/08 12:15	07/22/08 17:10		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:10	7440-62-2	
Zinc	**2.6J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 17:10	7440-66-6	

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ANALYTICAL RESULTS

Project: 406074 FOTH
Pace Project No.: 1076726

Sample: DUP-003 **Lab ID: 406074002** Collected: 07/07/08 00:00 Received: 07/08/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**7.2**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 17:19	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7440-36-0	
Arsenic	**0.56**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:19	7440-38-2	
Barium	**2.2**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 17:19	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:19	7440-41-7	
Boron	**11.2**	ug/L	2.0	1.0	1	07/21/08 12:15	07/22/08 17:19	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7440-43-9	
Calcium	**7460**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 17:23	7440-70-2	
Chromium	**0.34J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:19	7440-47-3	
Cobalt	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7440-48-4	
Copper	**0.13J**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:19	7440-50-8	
Iron	**383**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 17:19	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7439-92-1	
Lithium	**1.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7439-93-2	
Magnesium	**3040**	ug/L	5.0	2.5	1	07/21/08 12:15	07/23/08 11:14	7439-95-4	
Manganese	**23.3**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:19	7439-96-5	
Molybdenum	**0.53**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7439-98-7	
Nickel	**1.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7440-02-0	
Potassium	**1060**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 17:19	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:19	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:19	7440-22-4	
Sodium	**948**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 17:19	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7440-28-0	
Total Hardness by 2340B	**31100**	ug/L	105	52.5	5	07/21/08 12:15	07/22/08 17:23		
Vanadium	**0.091J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:19	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 17:19	7440-66-6	

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ANALYTICAL RESULTS

Project: 406074 FOTH
Pace Project No.: 1076726

Sample: HTP-002 **Lab ID: 406074003** Collected: 07/07/08 00:00 Received: 07/08/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**3.7J**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 17:27	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7440-36-0	
Arsenic	**1.3**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:27	7440-38-2	
Barium	**7.2**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 17:27	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:27	7440-41-7	
Boron	**27.2**	ug/L	2.0	1.0	1	07/21/08 12:15	07/22/08 17:27	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7440-43-9	
Calcium	**11500**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 17:32	7440-70-2	
Chromium	**0.36J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:27	7440-47-3	
Cobalt	**0.086J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7440-48-4	
Copper	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:27	7440-50-8	
Iron	**1150**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 17:27	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7439-92-1	
Lithium	**2.3**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7439-93-2	
Magnesium	**5120**	ug/L	5.0	2.5	1	07/21/08 12:15	07/23/08 11:18	7439-95-4	
Manganese	**68.0**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:27	7439-96-5	
Molybdenum	**0.66**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7439-98-7	
Nickel	**1.4**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7440-02-0	
Potassium	**2190**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 17:27	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 17:27	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 17:27	7440-22-4	
Sodium	**1360**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 17:27	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7440-28-0	
Total Hardness by 2340B	**49800**	ug/L	105	52.5	5	07/21/08 12:15	07/22/08 17:32		
Vanadium	**0.084J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 17:27	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 17:27	7440-66-6	

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ANALYTICAL RESULTS

Project: 406074 FOTH
Pace Project No.: 1076726

Sample: LKL-001 **Lab ID: 406074004** Collected: 07/07/08 00:00 Received: 07/08/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**7.9**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 18:03	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7440-36-0	
Arsenic	**0.47**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:03	7440-38-2	
Barium	**2.2**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 18:03	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:03	7440-41-7	
Boron	**11.2**	ug/L	2.0	1.0	1	07/21/08 12:15	07/22/08 18:03	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7440-43-9	
Calcium	**7260**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 18:07	7440-70-2	
Chromium	**0.51**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:03	7440-47-3	
Cobalt	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7440-48-4	
Copper	**0.14J**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:03	7440-50-8	
Iron	**373**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 18:03	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7439-92-1	
Lithium	**1.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7439-93-2	
Magnesium	**3070**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 18:07	7439-95-4	
Manganese	**22.3**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:03	7439-96-5	
Molybdenum	**0.53**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7439-98-7	
Nickel	**1.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7440-02-0	
Potassium	**1020**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 18:03	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:03	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:03	7440-22-4	
Sodium	**930**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 18:03	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7440-28-0	
Total Hardness by 2340B	**30800**	ug/L	125	62.5	5	07/21/08 12:15	07/22/08 18:07		
Vanadium	**0.080J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:03	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 18:03	7440-66-6	

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ANALYTICAL RESULTS

Project: 406074 FOTH
Pace Project No.: 1076726

Sample: LKL-002 **Lab ID: 406074005** Collected: 07/07/08 00:00 Received: 07/08/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**8.2**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 18:12	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7440-36-0	
Arsenic	**0.54**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:12	7440-38-2	
Barium	**2.3**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 18:12	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:12	7440-41-7	
Boron	**11.5**	ug/L	2.0	1.0	1	07/21/08 12:15	07/22/08 18:12	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7440-43-9	
Calcium	**7380**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 18:16	7440-70-2	
Chromium	**0.32J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:12	7440-47-3	
Cobalt	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7440-48-4	
Copper	**0.14J**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:12	7440-50-8	
Iron	**401**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 18:12	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7439-92-1	
Lithium	**1.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7439-93-2	
Magnesium	**3110**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 18:16	7439-95-4	
Manganese	**23.8**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:12	7439-96-5	
Molybdenum	**0.54**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7439-98-7	
Nickel	**0.96**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7440-02-0	
Potassium	**1090**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 18:12	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:12	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:12	7440-22-4	
Sodium	**1030**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 18:12	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7440-28-0	
Total Hardness by 2340B	**31200**	ug/L	125	62.5	5	07/21/08 12:15	07/22/08 18:16		
Vanadium	**0.10**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:12	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 18:12	7440-66-6	

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ANALYTICAL RESULTS

Project: 406074 FOTH
Pace Project No.: 1076726

Sample: MER-001 **Lab ID: 406074006** Collected: 07/07/08 00:00 Received: 07/08/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**90.6**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 18:21	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7440-36-0	
Arsenic	**1.8**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:21	7440-38-2	
Barium	**10.2**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 18:21	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:21	7440-41-7	
Boron	**7.3**	ug/L	2.0	1.0	1	07/21/08 12:15	07/22/08 18:21	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7440-43-9	
Calcium	**9200**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 18:25	7440-70-2	
Chromium	**0.59**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:21	7440-47-3	
Cobalt	**0.25**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7440-48-4	
Copper	**0.47**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:21	7440-50-8	
Iron	**2290**	ug/L	250	125	5	07/21/08 12:15	07/22/08 18:25	7439-89-6	
Lead	**0.18**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7439-92-1	
Lithium	**0.67**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7439-93-2	
Magnesium	**2560**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 18:25	7439-95-4	
Manganese	**125**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:21	7439-96-5	
Molybdenum	**0.26**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7439-98-7	
Nickel	**0.97**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7440-02-0	
Potassium	**464**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 18:21	7440-09-7	
Selenium	**0.26J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:21	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:21	7440-22-4	
Sodium	**3950**	ug/L	250	125	5	07/21/08 12:15	07/22/08 18:25	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7440-28-0	
Total Hardness by 2340B	**33500**	ug/L	125	62.5	5	07/21/08 12:15	07/22/08 18:25		
Vanadium	**0.97**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:21	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 18:21	7440-66-6	

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ANALYTICAL RESULTS

Project: 406074 FOTH
Pace Project No.: 1076726

Sample: MER-002 **Lab ID: 406074007** Collected: 07/07/08 00:00 Received: 07/08/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**92.3**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 18:30	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7440-36-0	
Arsenic	**2.2**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:30	7440-38-2	
Barium	**11.4**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 18:30	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:30	7440-41-7	
Boron	**8.9**	ug/L	2.0	1.0	1	07/21/08 12:15	07/22/08 18:30	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7440-43-9	
Calcium	**10000**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 18:34	7440-70-2	
Chromium	**0.70**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:30	7440-47-3	
Cobalt	**0.39**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7440-48-4	
Copper	**0.48**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:30	7440-50-8	
Iron	**2550**	ug/L	250	125	5	07/21/08 12:15	07/22/08 18:34	7439-89-6	
Lead	**0.20**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7439-92-1	
Lithium	**0.71**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7439-93-2	
Magnesium	**2760**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 18:34	7439-95-4	
Manganese	**145**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:30	7439-96-5	
Molybdenum	**0.30**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7439-98-7	
Nickel	**1.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7440-02-0	
Potassium	**554**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 18:30	7440-09-7	
Selenium	**0.30J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:30	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:30	7440-22-4	
Sodium	**4850**	ug/L	250	125	5	07/21/08 12:15	07/22/08 18:34	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7440-28-0	
Total Hardness by 2340B	**36500**	ug/L	125	62.5	5	07/21/08 12:15	07/22/08 18:34		
Vanadium	**1.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:30	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 18:30	7440-66-6	

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ANALYTICAL RESULTS

Project: 406074 FOTH
Pace Project No.: 1076726

Sample: MER-003 **Lab ID: 406074008** Collected: 07/07/08 00:00 Received: 07/08/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**90.5**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 18:39	7429-90-5	
Antimony	**0.070J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7440-36-0	
Arsenic	**2.1**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:39	7440-38-2	
Barium	**12.2**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 18:39	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:39	7440-41-7	
Boron	**9.8**	ug/L	2.0	1.0	1	07/21/08 12:15	07/22/08 18:39	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7440-43-9	
Calcium	**11100**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 18:43	7440-70-2	
Chromium	**0.77**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:39	7440-47-3	
Cobalt	**0.43**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7440-48-4	
Copper	**0.49**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:39	7440-50-8	
Iron	**2730**	ug/L	250	125	5	07/21/08 12:15	07/22/08 18:43	7439-89-6	
Lead	**0.18**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7439-92-1	
Lithium	**0.74**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7439-93-2	
Magnesium	**3310**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 18:43	7439-95-4	
Manganese	**151**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:39	7439-96-5	
Molybdenum	**0.43**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7439-98-7	
Nickel	**1.4**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7440-02-0	
Potassium	**681**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 18:39	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 18:39	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 18:39	7440-22-4	
Sodium	**6270**	ug/L	250	125	5	07/21/08 12:15	07/22/08 18:43	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7440-28-0	
Total Hardness by 2340B	**41300**	ug/L	125	62.5	5	07/21/08 12:15	07/22/08 18:43		
Vanadium	**1.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 18:39	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 18:39	7440-66-6	

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QUALITY CONTROL DATA

Project: 406074 FOTH
Pace Project No.: 1076726

QC Batch: MPRP/12654 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

METHOD BLANK: 500772
Associated Lab Samples: 406074001, 406074002, 406074003, 406074004, 406074005, 406074006, 406074007, 406074008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	<2.0	4.0	
Antimony	ug/L	<0.050	0.10	
Arsenic	ug/L	<0.10	0.20	
Barium	ug/L	<0.15	0.30	
Beryllium	ug/L	<0.10	0.20	
Boron	ug/L	<1.0	2.0	
Cadmium	ug/L	<0.050	0.10	
Calcium	ug/L	<10.0	20.0	
Chromium	ug/L	<0.25	0.50	
Cobalt	ug/L	<0.050	0.10	
Copper	ug/L	<0.10	0.20	
Iron	ug/L	<25.0	50.0	
Lead	ug/L	<0.050	0.10	
Lithium	ug/L	<0.050	0.10	
Magnesium	ug/L	<2.5	5.0	
Manganese	ug/L	<0.25	0.50	
Molybdenum	ug/L	<0.050	0.10	
Nickel	ug/L	<0.050	0.10	
Potassium	ug/L	<10.0	20.0	
Selenium	ug/L	<0.25	0.50	
Silver	ug/L	<0.10	0.20	
Sodium	ug/L	<25.0	50.0	
Thallium	ug/L	<0.050	0.10	
Total Hardness by 2340B	ug/L	16.0J	25.0	
Vanadium	ug/L	<0.050	0.10	
Zinc	ug/L	<2.5	5.0	

LABORATORY CONTROL SAMPLE: 500773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	85.7	107	85-115	
Antimony	ug/L	80	80.5	101	85-115	
Arsenic	ug/L	80	77.7	97	85-115	
Barium	ug/L	80	82.8	103	85-115	
Beryllium	ug/L	80	84.6	106	85-115	
Boron	ug/L	80	83.8	105	85-115	
Cadmium	ug/L	80	80.3	100	85-115	
Calcium	ug/L	1000	980	98	85-115	
Chromium	ug/L	80	82.7	103	85-115	
Cobalt	ug/L	80	80.0	100	85-115	
Copper	ug/L	80	80.0	100	85-115	

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QUALITY CONTROL DATA

Project: 406074 FOTH
Pace Project No.: 1076726

LABORATORY CONTROL SAMPLE: 500773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1000	1040	104	85-115	
Lead	ug/L	80	80.4	101	85-115	
Lithium	ug/L	80	84.8	106	85-115	
Magnesium	ug/L	1000	931	93	85-115	
Manganese	ug/L	80	83.1	104	85-115	
Molybdenum	ug/L	80	83.2	104	85-115	
Nickel	ug/L	80	76.2	95	85-115	
Potassium	ug/L	1000	989	99	85-115	
Selenium	ug/L	160	150	94	85-115	
Silver	ug/L	80	85.6	107	85-115	
Sodium	ug/L	1000	1010	101	85-115	
Thallium	ug/L	80	80.1	100	85-115	
Total Hardness by 2340B	ug/L		6280			
Vanadium	ug/L	80	80.6	101	85-115	
Zinc	ug/L	80	79.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 500774 500775

Parameter	Units	406074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	<2.0	80	80	85.9	86.1	105	106	70-130	.2	20	
Antimony	ug/L	<0.050	80	80	82.7	80.4	103	100	70-130	3	20	
Arsenic	ug/L	<0.10	80	80	80.3	80.3	100	100	70-130	.08	20	
Barium	ug/L	0.16J	80	80	82.4	81.1	103	101	70-130	2	20	
Beryllium	ug/L	<0.10	80	80	87.0	86.6	109	108	70-130	.5	20	
Boron	ug/L	3.1	80	80	85.6	89.3	103	108	70-130	4	20	
Cadmium	ug/L	<0.050	80	80	81.6	80.5	102	101	70-130	1	20	
Calcium	ug/L	19.9J	1000	1000	1010	1030	99	101	70-130	1	20	
Chromium	ug/L	0.48J	80	80	84.0	84.5	104	105	70-130	.5	20	
Cobalt	ug/L	<0.050	80	80	82.7	80.4	103	100	70-130	3	20	
Copper	ug/L	1.0	80	80	83.0	79.8	102	99	70-130	4	20	
Iron	ug/L	<25.0	1000	1000	1040	1060	102	104	70-130	2	20	
Lead	ug/L	<0.050	80	80	83.8	81.8	105	102	70-130	2	20	
Lithium	ug/L	<0.050	80	80	85.7	85.5	107	107	70-130	.2	20	
Magnesium	ug/L	8.4	1000	1000	943	936	93	93	70-130	.8	20	
Manganese	ug/L	3.0	80	80	86.6	87.1	104	105	70-130	.6	20	
Molybdenum	ug/L	<0.050	80	80	82.8	81.5	103	102	70-130	2	20	
Nickel	ug/L	0.20	80	80	81.3	78.1	101	97	70-130	4	20	
Potassium	ug/L	20.9	1000	1000	1040	1010	102	99	70-130	3	20	
Selenium	ug/L	<0.25	160	160	155	153	97	96	70-130	.9	20	
Silver	ug/L	<0.10	80	80	80.7	82.6	101	103	70-130	2	20	
Sodium	ug/L	475	1000	1000	1470	1500	99	102	70-130	2	20	
Thallium	ug/L	<0.050	80	80	83.7	82.1	105	103	70-130	2	20	
Total Hardness by 2340B	ug/L	84.1			6410	6410				.1	20	
Vanadium	ug/L	<0.050	80	80	84.2	82.1	105	103	70-130	3	20	
Zinc	ug/L	2.6J	80	80	85.9	82.9	104	100	70-130	3	20	

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QUALITY CONTROL DATA

Project: 406074 FOTH
Pace Project No.: 1076726

MATRIX SPIKE SAMPLE: 500776

Parameter	Units	406127003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	35.9	80	127	114	70-130	
Antimony	ug/L	7.1	80	90.5	104	70-130	
Arsenic	ug/L	0.73	80	80.4	100	70-130	
Barium	ug/L	7.2	80	92.7	107	70-130	
Beryllium	ug/L	<0.10	80	78.7	98	70-130	
Boron	ug/L	73.5	80	157	105	70-130	
Cadmium	ug/L	<0.050	80	81.1	101	70-130	
Calcium	ug/L	48200	1000	49100	98	70-130	
Chromium	ug/L	3.9	80	89.0	106	70-130	
Cobalt	ug/L	4.8	80	86.6	102	70-130	
Copper	ug/L	1.4	80	80.7	99	70-130	
Iron	ug/L	171	1000	1230	105	70-130	
Lead	ug/L	0.15	80	83.3	104	70-130	
Lithium	ug/L	3.1	80	79.8	96	70-130	
Magnesium	ug/L	24700	1000	25300	64	70-130	P6
Manganese	ug/L	111	80	191	101	70-130	
Molybdenum	ug/L	11.8	80	95.6	105	70-130	
Nickel	ug/L	13.0	80	91.1	98	70-130	
Potassium	ug/L	8440	1000	9430	98	70-130	
Selenium	ug/L	0.35J	160	155	97	70-130	
Silver	ug/L	<0.10	80	81.1	101	70-130	
Sodium	ug/L	13500	1000	14300	80	70-130	
Thallium	ug/L	<0.050	80	82.8	104	70-130	
Total Hardness by 2340B	ug/L	222000		227000			
Vanadium	ug/L	0.31	80	83.2	104	70-130	
Zinc	ug/L	<2.5	80	86.5	107	70-130	

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QUALIFIERS

Project: 406074 FOTH
Pace Project No.: 1076726

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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ANALYTE QUALIFIERS

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 406074 FOTH
Pace Project No.: 1076726

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406074001	**FBK-003**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406074002	**DUP-003**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406074003	**HTP-002**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406074004	**LKL-001**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406074005	**LKL-002**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406074006	**MER-001**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406074007	**MER-002**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406074008	**MER-003**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993

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Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson & Fath Project # 40474

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.5, 2, 3.5, 1 °C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/8/08 AB

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	6. Ph, NO_2, NO_3, turbidity
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☒Yes	☐No	☐N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed AB / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	15.
Trip Blank Present:	☐Yes	☐No	☒N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AH **Date:** 7/8/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20080707

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

Requested Analysis Filtered (Y/N): Alk2, Cl, Fl, SO4, TDS, Turbidity; NITRITE, NITRATE SEPARATELY; TSS; CYANIDE; METALS, GROSS ALPHA/BETA; LHG; SULFIDE; DOC; AMMONIA, COD, TOC

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn, NaOH	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LHG	SULFIDE	DOC	AMMONIA, COD, TOC			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 08-2946 406074
																		Y/N	N	N	N	N	N	N	Y	N				
1	FBK-003 0807-0602	WT	/			7/7/08	1315		11	4	3	2		1			1		1	1	1	2	1	1	1	2	1-1L poly		N	4-500ml ADA 1-500ml Hg 4-250ml, 2-125
2	DUP-003 0603	WT	G			7/7/08	—		11	4	3	2		1			1		1	1	1	2	1	1	1	2			N	
3	HTP-002 0604	WT	G			7/7/08	0950	22	11	4	3	2		1			1		1	1	1	2	1	1	1	2			N	
4	LKL-001 0605	WT	G			7/7/08	1225	22	11	4	3	2		1			1		1	1	1	2	1	1	1	2			N	
5	LKL-002 0606	WT	G			7/7/08	1135	22	11	4	3	2		1			1		1	1	1	2	1	1	1	2			N	
6	MER-001 0607	WT	G			7/7/08	1435	21	11	4	3	2		1			1		1	1	1	2	1	1	1	2			N	
7	MER-002 0608	WT	G			7/7/08	1515	21	11	4	3	2		1			1		1	1	1	2	1	1	1	2			N	
8	MER-003 0609	WT	G			7/7/08	1540	21	11	4	3	2		1			1		1	1	1	2	1	2	1	2			N	4-500ml ADA 4-125ml
9																														
10	MB - 0610																													
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	07/07/08	1785	FED EX						
	FED EX	7/8/08	0930	[signature]	7/8/08	0930	*	Y	Y	Y
				[signature]	7/11/08	1000				

FED EX 7954 74681825
7910 9991 7683
7910 9991 8668
7900 4758 1080

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CLYDE SHEFFIELD RICHARD EAGLE

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 07/07/08

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Sel SLWT 7/8/08 AB

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

1000

Batch No. 406127

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

July 30, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL
Pace Project No.: 406127

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on July 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,
for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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(920)469-2436

SAMPLE SUMMARY

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	Matrix	Date Collected	Date Received
406127001	**FBK-004**	Water	07/08/08 14:00	07/09/08 10:00
406127002	**DUP-004**	Water	07/08/08 00:00	07/09/08 10:00
406127003	**HPL-003 3'**	Water	07/08/08 11:45	07/09/08 10:00
406127004	**HPL-003 15'**	Water	07/08/08 12:15	07/09/08 10:00
406127005	**HPL-003 60'**	Water	07/08/08 12:30	07/09/08 10:00
406127006	**HPL-003 120'**	Water	07/08/08 12:45	07/09/08 10:00
406127007	**HPL-003 175'**	Water	07/08/08 13:10	07/09/08 10:00
406127008	**HPL-004 3'**	Water	07/08/08 14:45	07/09/08 10:00
406127009	**HPL-004 15'**	Water	07/08/08 15:00	07/09/08 10:00
406127010	**HPL-004 60'**	Water	07/08/08 15:15	07/09/08 10:00
406127011	**HPL-004 120'**	Water	07/08/08 15:35	07/09/08 10:00
406127012	**HPL-004 175'**	Water	07/08/08 16:05	07/09/08 10:00

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
406127001	FBK-004	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127002	DUP-004	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127003	HPL-003 3'	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127004	HPL-003 15'	EPA 1631E	GMW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127005	**HPL-003 60'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127006	**HPL-003 120'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127007	**HPL-003 175'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127008	**HPL-004 3'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127009	**HPL-004 15'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127010	**HPL-004 60'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127011	**HPL-004 120'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406127012	**HPL-004 175'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G

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Green Bay, WI 54302
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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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1241 Bellevue Street
Green Bay, WI 54302
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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Green Bay, WI 54302
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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/1802

R1: RPD value was outside control limits.

- DUP (Lab ID: 50159)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1915

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 406104001,406127010

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 50531)
  - Nitrite as N
- MS (Lab ID: 50533)
  - Nitrite as N
- MSD (Lab ID: 50532)
  - Nitrite as N
- MSD (Lab ID: 50534)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1916

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 406104001,406127010

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 50549)
  - Fluoride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 30, 2008

General Information:
12 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1937

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 406104001,406127010

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 51712)
  - Total Organic Carbon
- MSD (Lab ID: 51713)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: FBK-004 **Lab ID: 406127001** Collected: 07/08/08 14:00 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.166J**	ng/L	0.50	0.16	1	07/10/08 13:30	07/21/08 11:09	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		07/09/08 13:20		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:33		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:33		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		07/09/08 15:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/09/08 19:07	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 01:16	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		07/09/08 19:07	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		07/09/08 19:07	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		07/09/08 19:07	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0070J**	mg/L	0.020	0.0060	1		07/15/08 16:52	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:33	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**1.7J**	mg/L	2.0	1.4	1		07/15/08 17:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		07/14/08 09:20		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: DUP-004 **Lab ID: 406127002** Collected: 07/08/08 00:00 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.580**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 11:27	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.6**	NTU	1.0	0.44	1		07/09/08 13:20		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**165**	mg/L	10.0	3.2	1		07/10/08 14:33		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/10/08 14:33		
Alkalinity, Total as CaCO3	**165**	mg/L	10.0	3.2	1		07/10/08 14:33		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**456**	mg/L	20.0	12.0	1		07/09/08 15:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.2**	mg/L	0.40	0.085	1		07/09/08 19:21	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 01:30	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**24.2**	mg/L	5.0	1.1	1		07/09/08 19:21	16887-00-6	
Fluoride	**0.36J**	mg/L	0.50	0.059	1		07/09/08 19:21	16984-48-8	
Sulfate	**168**	mg/L	20.0	2.6	5		07/10/08 16:13	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.017J**	mg/L	0.020	0.0060	1		07/15/08 16:53	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.6**	mg/L	1.0	0.50	1		07/14/08 13:34	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**33.0J**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.1**	mg/L	2.0	1.4	1		07/15/08 17:42	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.0**	mg/L	2.0	1.4	1		07/14/08 09:25		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-003 3' **Lab ID: 406127003** Collected: 07/08/08 11:45 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.501**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 12:41	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.7**	NTU	1.0	0.44	1		07/09/08 13:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	10.0	3.2	1		07/11/08 13:02		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:02		
Alkalinity, Total as CaCO3	**101**	mg/L	10.0	3.2	1		07/11/08 13:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**326**	mg/L	20.0	12.0	1		07/09/08 15:03		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.82J**	mg/L	1.0	0.32	1		07/10/08 10:42		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.7**	mg/L	0.40	0.085	1		07/09/08 19:35	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 01:44	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.9**	mg/L	5.0	1.1	1		07/09/08 19:35	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		07/09/08 19:35	16984-48-8	
Sulfate	**126**	mg/L	20.0	2.6	5		07/10/08 16:25	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0088J**	mg/L	0.020	0.0060	1		07/15/08 16:54	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:35	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**33.0J**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.8**	mg/L	2.0	1.4	1		07/15/08 17:55	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.6**	mg/L	2.0	1.4	1		07/14/08 09:34		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-003 15' **Lab ID: 406127004** Collected: 07/08/08 12:15 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.26**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 12:01	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.8**	NTU	1.0	0.44	1		07/09/08 13:22		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	10.0	3.2	1		07/11/08 13:02		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:02		
Alkalinity, Total as CaCO3	**101**	mg/L	10.0	3.2	1		07/11/08 13:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**332**	mg/L	20.0	12.0	1		07/09/08 15:03		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.90J**	mg/L	1.0	0.31	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.6**	mg/L	0.40	0.085	1		07/09/08 19:50	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 01:58	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.8**	mg/L	5.0	1.1	1		07/09/08 19:50	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		07/09/08 19:50	16984-48-8	
Sulfate	**125**	mg/L	20.0	2.6	5		07/10/08 16:37	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0089J**	mg/L	0.020	0.0060	1		07/15/08 16:55	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:35	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**44.2J**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**4.1**	mg/L	2.0	1.4	1		07/15/08 18:01	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.0**	mg/L	2.0	1.4	1		07/14/08 09:40		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-003 60' **Lab ID: 406127005** Collected: 07/08/08 12:30 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.300J**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 12:06	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.6**	NTU	1.0	0.44	1		07/09/08 13:23		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	10.0	3.2	1		07/11/08 13:02		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:02		
Alkalinity, Total as CaCO3	**108**	mg/L	10.0	3.2	1		07/11/08 13:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**360**	mg/L	20.0	12.0	1		07/09/08 15:04		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.32**	mg/L	1.0	0.32	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.0**	mg/L	0.40	0.085	1		07/09/08 20:04	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 02:12	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.8**	mg/L	5.0	1.1	1		07/09/08 20:04	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		07/09/08 20:04	16984-48-8	
Sulfate	**134**	mg/L	20.0	2.6	5		07/10/08 16:50	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0080J**	mg/L	0.020	0.0060	1		07/15/08 16:55	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:36	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**35.3J**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.2**	mg/L	2.0	1.4	1		07/15/08 18:05	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**1.8J**	mg/L	2.0	1.4	1		07/14/08 11:13		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-003 120' **Lab ID: 406127006** Collected: 07/08/08 12:45 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.371J**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 12:11	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.0**	NTU	1.0	0.44	1		07/09/08 13:23		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**139**	mg/L	10.0	3.2	1		07/11/08 13:03		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:03		
Alkalinity, Total as CaCO3	**139**	mg/L	10.0	3.2	1		07/11/08 13:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**420**	mg/L	20.0	12.0	1		07/09/08 15:04		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.3**	mg/L	0.40	0.085	1		07/09/08 20:46	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 02:27	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**19.9**	mg/L	5.0	1.1	1		07/09/08 20:46	16887-00-6	
Fluoride	**0.33J**	mg/L	0.50	0.059	1		07/09/08 20:46	16984-48-8	
Sulfate	**159**	mg/L	20.0	2.6	5		07/10/08 17:02	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.011J**	mg/L	0.020	0.0060	1		07/22/08 14:29	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:37	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**53.2**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.9**	mg/L	2.0	1.4	1		07/15/08 18:12	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.2**	mg/L	2.0	1.4	1		07/14/08 09:52		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-003 175' **Lab ID: 406127007** Collected: 07/08/08 13:10 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.725**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 13:00	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.6**	NTU	1.0	0.44	1		07/09/08 13:23		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**165**	mg/L	10.0	3.2	1		07/11/08 13:03		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:03		
Alkalinity, Total as CaCO3	**165**	mg/L	10.0	3.2	1		07/11/08 13:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**456**	mg/L	20.0	12.0	1		07/09/08 15:05		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.2**	mg/L	0.40	0.085	1		07/09/08 21:00	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 02:41	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**24.2**	mg/L	5.0	1.1	1		07/09/08 21:00	16887-00-6	
Fluoride	**0.37J**	mg/L	0.50	0.059	1		07/09/08 21:00	16984-48-8	
Sulfate	**164**	mg/L	20.0	2.6	5		07/10/08 17:14	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.012J**	mg/L	0.020	0.0060	1		07/22/08 14:29	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.7**	mg/L	1.0	0.50	1		07/14/08 13:40	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**55.4**	mg/L	50.0	10.8	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.0**	mg/L	2.0	1.4	1		07/15/08 18:16	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.1**	mg/L	2.0	1.4	1		07/14/08 09:58		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-004 3' **Lab ID: 406127008** Collected: 07/08/08 14:45 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.577**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 13:00	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.6**	NTU	1.0	0.44	1		07/09/08 13:24		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	10.0	3.2	1		07/11/08 13:03		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:03		
Alkalinity, Total as CaCO3	**101**	mg/L	10.0	3.2	1		07/11/08 13:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**332**	mg/L	20.0	12.0	1		07/09/08 15:05		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.84J**	mg/L	1.0	0.32	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.7**	mg/L	0.40	0.085	1		07/09/08 21:15	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 02:55	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.8**	mg/L	5.0	1.1	1		07/09/08 21:15	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		07/09/08 21:15	16984-48-8	
Sulfate	**127**	mg/L	20.0	2.6	5		07/10/08 17:26	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0065J**	mg/L	0.020	0.0060	1		07/22/08 14:30	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:41	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**58.3**	mg/L	52.6	11.3	1		07/10/08 18:18		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.7**	mg/L	2.0	1.4	1		07/15/08 18:20	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.1**	mg/L	2.0	1.4	1		07/14/08 10:03		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-004 15' **Lab ID: 406127009** Collected: 07/08/08 15:00 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.435J**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 13:04	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.4**	NTU	1.0	0.44	1		07/09/08 13:24		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	10.0	3.2	1		07/11/08 13:04		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:04		
Alkalinity, Total as CaCO3	**101**	mg/L	10.0	3.2	1		07/11/08 13:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**338**	mg/L	20.0	12.0	1		07/09/08 15:05		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.82J**	mg/L	1.0	0.32	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.7**	mg/L	0.40	0.085	1		07/09/08 21:29	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 03:09	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.0**	mg/L	5.0	1.1	1		07/09/08 21:29	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		07/09/08 21:29	16984-48-8	
Sulfate	**122**	mg/L	20.0	2.6	5		07/10/08 17:38	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0067J**	mg/L	0.020	0.0060	1		07/22/08 14:31	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:41	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.8**	mg/L	2.0	1.4	1		07/15/08 18:24	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**1.8J**	mg/L	2.0	1.4	1		07/14/08 10:15		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-004 60' **Lab ID: 406127010** Collected: 07/08/08 15:15 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.527**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 09:17	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.6**	NTU	1.0	0.44	1		07/09/08 13:20		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	10.0	3.2	1		07/11/08 13:01		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:01		
Alkalinity, Total as CaCO3	**106**	mg/L	10.0	3.2	1		07/11/08 13:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**348**	mg/L	20.0	12.0	1		07/15/08 11:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.0**	mg/L	0.40	0.085	1		07/09/08 21:43	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 03:23	14797-65-0	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.0**	mg/L	5.0	1.1	1		07/09/08 21:43	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		07/09/08 21:43	16984-48-8	
Sulfate	**134**	mg/L	20.0	2.6	5		07/10/08 17:51	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0077J**	mg/L	0.020	0.0060	1		07/22/08 14:32	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:42	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**11.3J**	mg/L	52.6	11.3	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.3**	mg/L	2.0	1.4	1		07/15/08 18:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.0**	mg/L	2.0	1.4	1		07/14/08 10:20		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-004 120' **Lab ID: 406127011** Collected: 07/08/08 15:35 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.885**	ng/L	0.50	0.16	1	07/10/08 14:30	07/21/08 13:11	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.96J**	NTU	1.0	0.44	1		07/09/08 13:24		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	10.0	3.2	1		07/11/08 13:04		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:04		
Alkalinity, Total as CaCO3	**123**	mg/L	10.0	3.2	1		07/11/08 13:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**410**	mg/L	20.0	12.0	1		07/15/08 11:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.4**	mg/L	0.40	0.085	1		07/09/08 22:26	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 04:34	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**19.8**	mg/L	5.0	1.1	1		07/09/08 22:26	16887-00-6	
Fluoride	**0.33J**	mg/L	0.50	0.059	1		07/09/08 22:26	16984-48-8	
Sulfate	**161**	mg/L	20.0	2.6	5		07/10/08 18:51	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.011J**	mg/L	0.020	0.0060	1		07/22/08 14:34	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**2.2**	mg/L	1.0	0.50	1		07/14/08 13:52	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.3**	mg/L	2.0	1.4	1		07/15/08 18:55	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.3**	mg/L	2.0	1.4	1		07/14/08 10:40		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406127

Sample: HPL-004 175' **Lab ID: 406127012** Collected: 07/08/08 16:05 Received: 07/09/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.622**	ng/L	0.50	0.16	1	07/10/08 15:30	07/16/08 08:22	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.6**	NTU	1.0	0.44	1		07/09/08 13:24		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**174**	mg/L	10.0	3.2	1		07/11/08 13:04		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/11/08 13:04		
Alkalinity, Total as CaCO3	**174**	mg/L	10.0	3.2	1		07/11/08 13:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**454**	mg/L	20.0	12.0	1		07/15/08 11:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/11/08 10:07		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/10/08 10:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.2**	mg/L	0.40	0.085	1		07/09/08 22:40	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/10/08 04:48	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**24.4**	mg/L	5.0	1.1	1		07/09/08 22:40	16887-00-6	
Fluoride	**0.36J**	mg/L	0.50	0.059	1		07/09/08 22:40	16984-48-8	
Sulfate	**163**	mg/L	20.0	2.6	5		07/10/08 19:04	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.011J**	mg/L	0.020	0.0060	1		07/22/08 14:38	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.7**	mg/L	1.0	0.50	1		07/14/08 13:52	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.6**	mg/L	2.0	1.4	1		07/15/08 19:04	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.5**	mg/L	2.0	1.4	1		07/14/08 10:46		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WET/1801 | Analysis Method: SM 2130B
QC Batch Method: SM 2130B | Analysis Description: 2130B Turbidity
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 50146
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 50147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	530	529	100		

SAMPLE DUPLICATE: 50148

Parameter	Units	406127010 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	1.6	1.6	.6	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WET/1802 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009

METHOD BLANK: 50157
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	12.0J	20.0	

LABORATORY CONTROL SAMPLE: 50158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1060	1060	100	80-120	

SAMPLE DUPLICATE: 50159

Parameter	Units	406074001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	<12.0	<12.0	133	10	R1

SAMPLE DUPLICATE: 50160

Parameter	Units	406127004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	332	340	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WET/1807 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 406127001, 406127002, 406127003

METHOD BLANK: 50375
Associated Lab Samples: 406127001, 406127002, 406127003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 50376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	310	278	90	80-120	

SAMPLE DUPLICATE: 50377

Parameter	Units	406054001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	23.8	25.2	6	10	

SAMPLE DUPLICATE: 50378

Parameter	Units	406114001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	95.3	92.7	3	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1915 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 50529
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 50530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.5	95	90-110	
Nitrite as N	mg/L	.8	0.75	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50531 50532

Parameter	Units	406104001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	3.7	1.6	1.6	5.3	5.4	99	104	90-110	1	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.59	0.60	74	75	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50533 50534

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	2.0	1.6	1.6	3.6	3.6	95	97	90-110	.8	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.67	0.63	84	79	90-110	6	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1916 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 50547
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<1.1	5.0	
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	<0.51	4.0	

LABORATORY CONTROL SAMPLE: 50548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.8	94	90-110	
Fluoride	mg/L	2	1.9	96	90-110	
Sulfate	mg/L	16	15.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50549 50550

Parameter	Units	406104001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.0	20	20	35.0	35.4	95	97	90-110	.9	20	
Fluoride	mg/L	0.20J	2	2	2.0	2.0	88	90	90-110	1	20	M0
Sulfate	mg/L	28.4	16	16	44.9	45.0	103	104	90-110	.2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50551 50552

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.0	20	20	31.0	31.0	95	95	90-110	.1	20	
Fluoride	mg/L	0.27J	2	2	2.1	2.1	94	93	90-110	.5	20	
Sulfate	mg/L	134	80	80	210	208	96	93	90-110	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WET/1808
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 406127001, 406127002

METHOD BLANK: 50749
Associated Lab Samples: 406127001, 406127002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 50750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50751 50752

Parameter	Units	406074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	<3.2	500	500	504	491	100	98	80-120	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WET/1809 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 50753
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE: 50754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	45.6	44.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50755 50756

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.3	45.6	45.6	40.8	42.4	89	93	80-120	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1919 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008

METHOD BLANK: 50800
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 50801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	518	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50802 50803

Parameter	Units	405944007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	138	526	526	674	674	102	102	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50804 50805

Parameter	Units	406127008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	58.3	526	526	601	604	103	104	90-110	.4	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WET/1810 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 50844
Associated Lab Samples: 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 50845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	310	278	90	80-120	

SAMPLE DUPLICATE: 50846

Parameter	Units	406218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	7600	8270	8	10	H1

SAMPLE DUPLICATE: 50847

Parameter	Units	406207001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	840	860	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1921 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 50860
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 50861

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50862 50863

Parameter	Units	406074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	5.0	100	100	119	116	114	111	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51177 51178

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	2.0	100	100	117	116	115	114	80-120	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1924 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010

METHOD BLANK: 50896
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 50897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50898 50899

Parameter	Units	406074008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.8	10.9	107	109	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 50900 50901

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.6	10.5	105	104	90-110	.4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WET/1813 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 51223
Associated Lab Samples: 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 51224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	504	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51225 51226

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	106	500	500	605	609	100	101	80-120	.7	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1933
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 406127011, 406127012

METHOD BLANK: 51616
Associated Lab Samples: 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 51617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51618 51619

Parameter	Units	406200002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.7	10.7	106	107	90-110	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51620 51621

Parameter	Units	406233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.9	10.9	109	109	90-110	.04	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1937 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 51708
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 51709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	106	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51710 51711

Parameter	Units	406104001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.8	100	100	123	123	119	119	80-120	.07	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51712 51713

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	7.3	100	100	136	134	129	127	80-120	1	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WET/1834 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 406127010, 406127011, 406127012

METHOD BLANK: 51943
Associated Lab Samples: 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	

LABORATORY CONTROL SAMPLE: 51944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1060	1060	100	80-120	

SAMPLE DUPLICATE: 51945

Parameter	Units	406127010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	348	364	4	10	

SAMPLE DUPLICATE: 51946

Parameter	Units	406200004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	332	334	.6	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1943 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005

METHOD BLANK: 52058
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 52059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52060 52061

Parameter	Units	406104001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	100	101	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52062 52063

Parameter	Units	406127005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0080J	.1	.1	0.10	0.11	96	99	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1948 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 52200
Associated Lab Samples: 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 52201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	504	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52202 52203

Parameter	Units	406102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	41.8J	526	526	585	575	103	101	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52204 52205

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	11.3J	526	526	557	545	104	101	90-110	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: CVFS/1142
QC Batch Method: EPA 1631E
Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury
Associated Lab Samples: 406127012

METHOD BLANK: 52584
Associated Lab Samples: 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.162J	0.50	

METHOD BLANK: 52585
Associated Lab Samples: 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.199J	0.50	

METHOD BLANK: 52586
Associated Lab Samples: 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.294J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 52587 52588

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.92	5.42	118	108	79-121	9	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52589 52590

Parameter	Units	9222975002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	52.0	200	200	282	294	115	121	75-125	4	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52591 52592

Parameter	Units	406137001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	2.51	10	10	13.7	13.7	112	112	75-125	.09	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: CVFS/1148 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011

METHOD BLANK: 54257
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.260J	0.50	

METHOD BLANK: 54258
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.389J	0.50	

METHOD BLANK: 54259
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	0.301J	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 54260 54261

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.11	5.22	102	104	79-121	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54262 54263

Parameter	Units	406074007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	4.58	20	20	26.2	24.1	108	98	75-125	8	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54264 54265

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	0.527	2.5	2.5	2.76	2.76	89	89	75-125	.05	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406127

QC Batch: WETA/1987 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

METHOD BLANK: 54437
Associated Lab Samples: 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 54438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54439 54440

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0077J	.1	.1	0.10	0.10	94	95	90-110	.9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54441 54442

Parameter	Units	406209003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.036	.6	.6	0.59	0.60	94	96	90-110	2	20	

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QUALIFIERS

Project: HUMBOLDT MILL
Pace Project No.: 406127

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

H1	Analysis conducted outside the recognized method holding time.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406127001	FBK-004	SM 2130B	WET/1801		
406127002	DUP-004	SM 2130B	WET/1801		
406127003	HPL-003 3'	SM 2130B	WET/1801		
406127004	HPL-003 15'	SM 2130B	WET/1801		
406127005	HPL-003 60'	SM 2130B	WET/1801		
406127006	HPL-003 120'	SM 2130B	WET/1801		
406127007	HPL-003 175'	SM 2130B	WET/1801		
406127008	HPL-004 3'	SM 2130B	WET/1801		
406127009	HPL-004 15'	SM 2130B	WET/1801		
406127010	HPL-004 60'	SM 2130B	WET/1801		
406127011	HPL-004 120'	SM 2130B	WET/1801		
406127012	HPL-004 175'	SM 2130B	WET/1801		
406127001	FBK-004	SM 2540C	WET/1802		
406127002	DUP-004	SM 2540C	WET/1802		
406127003	HPL-003 3'	SM 2540C	WET/1802		
406127004	HPL-003 15'	SM 2540C	WET/1802		
406127005	HPL-003 60'	SM 2540C	WET/1802		
406127006	HPL-003 120'	SM 2540C	WET/1802		
406127007	HPL-003 175'	SM 2540C	WET/1802		
406127008	HPL-004 3'	SM 2540C	WET/1802		
406127009	HPL-004 15'	SM 2540C	WET/1802		
406127001	FBK-004	SM 2540D	WET/1807		
406127002	DUP-004	SM 2540D	WET/1807		
406127003	HPL-003 3'	SM 2540D	WET/1807		
406127001	FBK-004	EPA 300.0	WETA/1915		
406127002	DUP-004	EPA 300.0	WETA/1915		
406127003	HPL-003 3'	EPA 300.0	WETA/1915		
406127004	HPL-003 15'	EPA 300.0	WETA/1915		
406127005	HPL-003 60'	EPA 300.0	WETA/1915		
406127006	HPL-003 120'	EPA 300.0	WETA/1915		
406127007	HPL-003 175'	EPA 300.0	WETA/1915		
406127008	HPL-004 3'	EPA 300.0	WETA/1915		
406127009	HPL-004 15'	EPA 300.0	WETA/1915		
406127010	HPL-004 60'	EPA 300.0	WETA/1915		
406127011	HPL-004 120'	EPA 300.0	WETA/1915		
406127012	HPL-004 175'	EPA 300.0	WETA/1915		
406127001	FBK-004	EPA 300.0	WETA/1916		
406127002	DUP-004	EPA 300.0	WETA/1916		
406127003	HPL-003 3'	EPA 300.0	WETA/1916		
406127004	HPL-003 15'	EPA 300.0	WETA/1916		
406127005	HPL-003 60'	EPA 300.0	WETA/1916		
406127006	HPL-003 120'	EPA 300.0	WETA/1916		
406127007	HPL-003 175'	EPA 300.0	WETA/1916		
406127008	HPL-004 3'	EPA 300.0	WETA/1916		
406127009	HPL-004 15'	EPA 300.0	WETA/1916		
406127010	HPL-004 60'	EPA 300.0	WETA/1916		
406127011	HPL-004 120'	EPA 300.0	WETA/1916		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406127012	HPL-004 175'	EPA 300.0	WETA/1916		
406127001	FBK-004	SM 2320B	WET/1808		
406127002	DUP-004	SM 2320B	WET/1808		
406127001	FBK-004	SM 4500-S F (2000)	WET/1809		
406127002	DUP-004	SM 4500-S F (2000)	WET/1809		
406127003	HPL-003 3'	SM 4500-S F (2000)	WET/1809		
406127004	HPL-003 15'	SM 4500-S F (2000)	WET/1809		
406127005	HPL-003 60'	SM 4500-S F (2000)	WET/1809		
406127006	HPL-003 120'	SM 4500-S F (2000)	WET/1809		
406127007	HPL-003 175'	SM 4500-S F (2000)	WET/1809		
406127008	HPL-004 3'	SM 4500-S F (2000)	WET/1809		
406127009	HPL-004 15'	SM 4500-S F (2000)	WET/1809		
406127010	HPL-004 60'	SM 4500-S F (2000)	WET/1809		
406127011	HPL-004 120'	SM 4500-S F (2000)	WET/1809		
406127012	HPL-004 175'	SM 4500-S F (2000)	WET/1809		
406127001	FBK-004	EPA 410.4	WETA/1919		
406127002	DUP-004	EPA 410.4	WETA/1919		
406127003	HPL-003 3'	EPA 410.4	WETA/1919		
406127004	HPL-003 15'	EPA 410.4	WETA/1919		
406127005	HPL-003 60'	EPA 410.4	WETA/1919		
406127006	HPL-003 120'	EPA 410.4	WETA/1919		
406127007	HPL-003 175'	EPA 410.4	WETA/1919		
406127008	HPL-004 3'	EPA 410.4	WETA/1919		
406127004	HPL-003 15'	SM 2540D	WET/1810		
406127005	HPL-003 60'	SM 2540D	WET/1810		
406127006	HPL-003 120'	SM 2540D	WET/1810		
406127007	HPL-003 175'	SM 2540D	WET/1810		
406127008	HPL-004 3'	SM 2540D	WET/1810		
406127009	HPL-004 15'	SM 2540D	WET/1810		
406127010	HPL-004 60'	SM 2540D	WET/1810		
406127011	HPL-004 120'	SM 2540D	WET/1810		
406127012	HPL-004 175'	SM 2540D	WET/1810		
406127001	FBK-004	SM 5310C	WETA/1921		
406127002	DUP-004	SM 5310C	WETA/1921		
406127003	HPL-003 3'	SM 5310C	WETA/1921		
406127004	HPL-003 15'	SM 5310C	WETA/1921		
406127005	HPL-003 60'	SM 5310C	WETA/1921		
406127006	HPL-003 120'	SM 5310C	WETA/1921		
406127007	HPL-003 175'	SM 5310C	WETA/1921		
406127008	HPL-004 3'	SM 5310C	WETA/1921		
406127009	HPL-004 15'	SM 5310C	WETA/1921		
406127010	HPL-004 60'	SM 5310C	WETA/1921		
406127011	HPL-004 120'	SM 5310C	WETA/1921		
406127012	HPL-004 175'	SM 5310C	WETA/1921		
406127001	FBK-004	EPA 350.1	WETA/1924		
406127002	DUP-004	EPA 350.1	WETA/1924		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406127003	HPL-003 3'	EPA 350.1	WETA/1924		
406127004	HPL-003 15'	EPA 350.1	WETA/1924		
406127005	HPL-003 60'	EPA 350.1	WETA/1924		
406127006	HPL-003 120'	EPA 350.1	WETA/1924		
406127007	HPL-003 175'	EPA 350.1	WETA/1924		
406127008	HPL-004 3'	EPA 350.1	WETA/1924		
406127009	HPL-004 15'	EPA 350.1	WETA/1924		
406127010	HPL-004 60'	EPA 350.1	WETA/1924		
406127003	HPL-003 3'	SM 2320B	WET/1813		
406127004	HPL-003 15'	SM 2320B	WET/1813		
406127005	HPL-003 60'	SM 2320B	WET/1813		
406127006	HPL-003 120'	SM 2320B	WET/1813		
406127007	HPL-003 175'	SM 2320B	WET/1813		
406127008	HPL-004 3'	SM 2320B	WET/1813		
406127009	HPL-004 15'	SM 2320B	WET/1813		
406127010	HPL-004 60'	SM 2320B	WET/1813		
406127011	HPL-004 120'	SM 2320B	WET/1813		
406127012	HPL-004 175'	SM 2320B	WET/1813		
406127011	HPL-004 120'	EPA 350.1	WETA/1933		
406127012	HPL-004 175'	EPA 350.1	WETA/1933		
406127001	FBK-004	SM 5310C	WETA/1937		
406127002	DUP-004	SM 5310C	WETA/1937		
406127003	HPL-003 3'	SM 5310C	WETA/1937		
406127004	HPL-003 15'	SM 5310C	WETA/1937		
406127005	HPL-003 60'	SM 5310C	WETA/1937		
406127006	HPL-003 120'	SM 5310C	WETA/1937		
406127007	HPL-003 175'	SM 5310C	WETA/1937		
406127008	HPL-004 3'	SM 5310C	WETA/1937		
406127009	HPL-004 15'	SM 5310C	WETA/1937		
406127010	HPL-004 60'	SM 5310C	WETA/1937		
406127011	HPL-004 120'	SM 5310C	WETA/1937		
406127012	HPL-004 175'	SM 5310C	WETA/1937		
406127010	HPL-004 60'	SM 2540C	WET/1834		
406127011	HPL-004 120'	SM 2540C	WET/1834		
406127012	HPL-004 175'	SM 2540C	WET/1834		
406127001	FBK-004	EPA 335.4	WETA/1943		
406127002	DUP-004	EPA 335.4	WETA/1943		
406127003	HPL-003 3'	EPA 335.4	WETA/1943		
406127004	HPL-003 15'	EPA 335.4	WETA/1943		
406127005	HPL-003 60'	EPA 335.4	WETA/1943		
406127009	HPL-004 15'	EPA 410.4	WETA/1948		
406127010	HPL-004 60'	EPA 410.4	WETA/1948		
406127011	HPL-004 120'	EPA 410.4	WETA/1948		
406127012	HPL-004 175'	EPA 410.4	WETA/1948		
406127012	HPL-004 175'	EPA 1631E	CVFS/1142	EPA 1631E	CVFS/1143

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406127

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406127001	FBK-004	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127002	DUP-004	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127003	HPL-003 3'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127004	HPL-003 15'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127005	HPL-003 60'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127006	HPL-003 120'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127007	HPL-003 175'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127008	HPL-004 3'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127009	HPL-004 15'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127010	HPL-004 60'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127011	HPL-004 120'	EPA 1631E	CVFS/1148	EPA 1631E	CVFS/1149
406127006	HPL-003 120'	EPA 335.4	WETA/1987		
406127007	HPL-003 175'	EPA 335.4	WETA/1987		
406127008	HPL-004 3'	EPA 335.4	WETA/1987		
406127009	HPL-004 15'	EPA 335.4	WETA/1987		
406127010	HPL-004 60'	EPA 335.4	WETA/1987		
406127011	HPL-004 120'	EPA 335.4	WETA/1987		
406127012	HPL-004 175'	EPA 335.4	WETA/1987		

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Pace Analytical Services, Inc.
1638 Roseytown Rd
Suites 2, 3 & 4
Greensburg, PA 15601
Phone: 724.850.5600
Fax: 724.850.5601

July 30, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Water Characterization
406127 Foth & Van Dyke
Pace Project No. 08-2947

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on July 14, 2008 and logged in for analysis on July 15, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2947
CLIENT: 406127 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0807-0611	FBK-004	0807-0612	DUP-004
0807-0613	HPL-003 (3')	0807-0614	HPL-003 (15')
0807-0615	HPL-003 (60')	0807-0616	HPL-003 (120')
0807-0617	HPL-003 (175')	0807-0618	HPL-004 (3')
0807-0619	HPL-004 (15')	0807-0620	HPL-004 (60')
0807-0621	HPL-004 (120')	0807-0622	HPL-004 (175')

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2947
Water Characterization; 406127 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0611	FBK-004	(7/8/08)	07/30/08	0.447 ± 0.600	(1.26)
0807-0612	DUP-004	(7/8/08)	07/30/08	3.56 ± 1.88	(2.17)
0807-0613	HPL-003 (3')	(7/8/08)	07/30/08	1.64 ± 1.22	(2.03)
0807-0614	HPL-003 (15')	(7/8/08)	07/30/08	1.85 ± 1.24	(1.93)
0807-0615	HPL-003 (60')	(7/8/08)	07/30/08	0.797 ± 0.997	(2.00)
0807-0616	HPL-003 (120')	(7/8/08)	07/30/08	1.20 ± 1.12	(2.04)
0807-0617	HPL-003 (175')	(7/8/08)	07/30/08	3.71 ± 2.01	(2.67)
0807-0618	HPL-004 (3')	(7/8/08)	07/30/08	1.36 ± 1.13	(1.96)
0807-0619	HPL-004 (15')	(7/8/08)	07/30/08	1.36 ± 1.17	(2.11)
0807-0620	HPL-004 (60')	(7/8/08)	07/30/08	1.64 ± 1.19	(1.89)
0807-0621	HPL-004 (120')	(7/8/08)	07/30/08	4.48 ± 2.03	(2.36)
0807-0622	HPL-004 (175')	(7/8/08)	07/30/08	2.60 ± 1.63	(2.41)
0807-0623	Method Blank	(7/14/08)	07/30/08	-0.499 ± 0.346	(1.30)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0611	FBK-004	(7/8/08)	07/30/08	0.359 ± 0.601	(1.30)
0807-0612	DUP-004	(7/8/08)	07/30/08	15.3 ± 3.31	(1.60)
0807-0613	HPL-003 (3')	(7/8/08)	07/30/08	5.03 ± 1.40	(1.42)
0807-0614	HPL-003 (15')	(7/8/08)	07/30/08	5.35 ± 1.45	(1.40)
0807-0615	HPL-003 (60')	(7/8/08)	07/30/08	6.47 ± 1.77	(1.82)
0807-0616	HPL-003 (120')	(7/8/08)	07/30/08	6.51 ± 1.64	(1.34)
0807-0617	HPL-003 (175')	(7/8/08)	07/30/08	14.8 ± 3.16	(1.35)
0807-0618	HPL-004 (3')	(7/8/08)	07/30/08	5.83 ± 1.51	(1.21)
0807-0619	HPL-004 (15')	(7/8/08)	07/30/08	6.29 ± 1.62	(1.43)
0807-0620	HPL-004 (60')	(7/8/08)	07/30/08	7.78 ± 1.89	(1.38)
0807-0621	HPL-004 (120')	(7/8/08)	07/30/08	13.6 ± 2.98	(1.51)
0807-0622	HPL-004 (175')	(7/8/08)	07/30/08	19.1 ± 4.04	(1.71)
0807-0623	Method Blank	(7/14/08)	07/30/08	-0.282 ± 0.517	(1.34)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Quality Control Sample Performance Assessment

Test:	Gross Alpha
Analyst:	RMD
Date:	7/30/2008
Worklist:	16788
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.499
M/B Counting Uncertainty:	0.334
MB MDC:	1.299
MB Numerical Performance Indicator:	-2.93
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/30/2008	7/30/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	43.817	44.158
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	3.451	3.476
Numerical Performance Indicator:	-0.93	-0.77
Percent Recovery:	95.47%	96.21%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	7/7/2008
Sample I.D.	0807-0603
Sample MS I.D.	0807-0603MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	91.795
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.398
Sample Result:	0.114
Sample Result Counting Uncertainty (pCi/L, g, F):	0.472
Sample Matrix Spike Result:	88.544
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	5.103
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-0.886
MSD Numerical Performance Indicator:	
MS Percent Recovery:	96.33%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS16788
Duplicate Sample I.D.	LCSD16788
Sample Result (pCi/L, g, F):	43.817
Sample Result Counting Uncertainty (pCi/L, g, F):	3.451
Sample Duplicate Result (pCi/L, g, F):	44.158
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.476
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.136
Duplicate RPD:	0.78%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

DM 7/30/08

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Quality Control Sample Performance Assessment

Test:	Gross Beta
Analyst:	RMD
Date:	7/30/2008
Worklist:	16788
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.282
M/B Counting Uncertainty:	0.515
MB MDC:	1.344
MB Numerical Performance Indicator:	-1.07
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/30/2008	7/30/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.340	39.340
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.670	19.670
Uncertainty (Calculated):	0.463	0.463
Result (pCi/L, g, F):	18.627	20.056
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.004	2.022
Numerical Performance Indicator:	-0.99	0.36
Percent Recovery:	94.70%	101.96%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	7/7/2008
Sample I.D.	0807-0603
Sample MS I.D.	0807-0603MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.400
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.400
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.927
Sample Result:	0.395
Sample Result Counting Uncertainty (pCi/L, g, F):	0.617
Sample Matrix Spike Result:	38.135
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	2.727
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-1.105
MSD Numerical Performance Indicator:	
MS Percent Recovery:	95.79%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS16788
Duplicate Sample I.D.	LCSD16788
Sample Result (pCi/L, g, F):	18.627
Sample Result Counting Uncertainty (pCi/L, g, F):	2.004
Sample Duplicate Result (pCi/L, g, F):	20.056
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.022
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.984
Duplicate RPD:	7.39%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Q 7/30/08

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

July 25, 2008

Client Services
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 406127 FOTH
Pace Project No.: 1076750

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on July 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Hunter

Sylvia Hunter

sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 406127 FOTH
Pace Project No.: 1076750

Lab ID	Sample ID	Matrix	Date Collected	Date Received
406127001	FBK-004	Water	07/08/08 14:00	07/09/08 00:00
406127002	DUP-004	Water	07/08/08 00:00	07/09/08 00:00
406127003	HPL-003 3'	Water	07/08/08 11:45	07/09/08 00:00
406127004	HPL-003 15'	Water	07/08/08 12:15	07/09/08 00:00
406127005	HPL-003 60'	Water	07/08/08 12:30	07/09/08 00:00
406127006	HPL-003 120'	Water	07/08/08 12:45	07/09/08 00:00
406127007	HPL-003 175'	Water	07/08/08 13:10	07/09/08 00:00
406127008	HPL-004 3'	Water	07/08/08 14:45	07/09/08 00:00
406127009	HPL-004 15'	Water	07/08/08 15:00	07/09/08 00:00
406127010	HPL-004 60'	Water	07/08/08 15:15	07/09/08 00:00
406127011	HPL-004 120'	Water	07/08/08 15:35	07/09/08 00:00
406127012	HPL-004 175'	Water	07/08/08 16:05	07/09/08 00:00

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 406127 FOTH
Pace Project No.: 1076750

Lab ID	Sample ID	Method	Analysts	Analytes Reported
406127001	FBK-004	EPA 6020	RJS	26
406127002	DUP-004	EPA 6020	RJS	26
406127003	HPL-003 3'	EPA 6020	RJS	26
406127004	HPL-003 15'	EPA 6020	RJS	26
406127005	HPL-003 60'	EPA 6020	RJS	26
406127006	HPL-003 120'	EPA 6020	RJS	26
406127007	HPL-003 175'	EPA 6020	RJS	26
406127008	HPL-004 3'	EPA 6020	RJS	26
406127009	HPL-004 15'	EPA 6020	RJS	26
406127010	HPL-004 60'	EPA 6020	RJS	26
406127011	HPL-004 120'	EPA 6020	RJS	26
406127012	HPL-004 175'	EPA 6020	RJS	26

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: FBK-004 **Lab ID: 406127001** Collected: 07/08/08 14:00 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**3.2J**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 19:01	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:01	7440-36-0	
Arsenic	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:01	7440-38-2	
Barium	**<0.15**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 19:01	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 11:22	7440-41-7	
Boron	**13.6**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 11:22	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:01	7440-43-9	
Calcium	**<10.0**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 19:01	7440-70-2	
Chromium	**0.34J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:01	7440-47-3	
Cobalt	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:01	7440-48-4	
Copper	**0.68**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:01	7440-50-8	
Iron	**<25.0**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 19:01	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:01	7439-92-1	
Lithium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 11:22	7439-93-2	
Magnesium	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 19:01	7439-95-4	
Manganese	**0.42J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:01	7439-96-5	
Molybdenum	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:01	7439-98-7	
Nickel	**0.084J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:01	7440-02-0	
Potassium	**38.4**	ug/L	20.0	10.0	1	07/21/08 12:15	07/22/08 19:01	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:01	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:01	7440-22-4	
Sodium	**692**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 19:01	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:01	7440-28-0	
Total Hardness by 2340B	**10.9J**	ug/L	21.3	6.7	1	07/21/08 12:15	07/22/08 19:01		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:01	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 19:01	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: DUP-004 **Lab ID: 406127002** Collected: 07/08/08 00:00 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.5**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 19:10	7429-90-5	
Antimony	**29.3**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:10	7440-36-0	
Arsenic	**0.41**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:10	7440-38-2	
Barium	**9.8**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 19:10	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 11:27	7440-41-7	
Boron	**118**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 11:27	7440-42-8	
Cadmium	**0.079J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:10	7440-43-9	
Calcium	**51800**	ug/L	1000	500	50	07/21/08 12:15	07/23/08 11:31	7440-70-2	
Chromium	**0.27J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:10	7440-47-3	
Cobalt	**17.3**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:10	7440-48-4	
Copper	**2.9**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:10	7440-50-8	
Iron	**96.4**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 19:10	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:10	7439-92-1	
Lithium	**3.4**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 11:27	7439-93-2	
Magnesium	**28400**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 19:14	7439-95-4	
Manganese	**1750**	ug/L	2.5	1.2	5	07/21/08 12:15	07/22/08 19:14	7439-96-5	
Molybdenum	**47.5**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:10	7439-98-7	
Nickel	**203**	ug/L	0.50	0.25	5	07/21/08 12:15	07/22/08 19:14	7440-02-0	
Potassium	**17500**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 19:14	7440-09-7	
Selenium	**0.45J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:10	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:10	7440-22-4	
Sodium	**26600**	ug/L	250	125	5	07/21/08 12:15	07/22/08 19:14	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:10	7440-28-0	
Total Hardness by 2340B	**246000**	ug/L	1050	321	50	07/21/08 12:15	07/23/08 11:31		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:10	7440-62-2	
Zinc	**4.8J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 19:10	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-003 3' **Lab ID: 406127003** Collected: 07/08/08 11:45 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**35.9**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 19:19	7429-90-5	
Antimony	**7.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:19	7440-36-0	
Arsenic	**0.73**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:19	7440-38-2	
Barium	**7.2**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 19:19	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 11:49	7440-41-7	
Boron	**73.5**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 11:49	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:19	7440-43-9	
Calcium	**48200**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 19:23	7440-70-2	
Chromium	**3.9**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:19	7440-47-3	
Cobalt	**4.8**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:19	7440-48-4	
Copper	**1.4**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:19	7440-50-8	
Iron	**171**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 19:19	7439-89-6	
Lead	**0.15**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:19	7439-92-1	
Lithium	**3.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 11:49	7439-93-2	
Magnesium	**24700**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 19:23	7439-95-4	P6
Manganese	**111**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:19	7439-96-5	
Molybdenum	**11.8**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:19	7439-98-7	
Nickel	**13.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:19	7440-02-0	
Potassium	**8440**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 19:23	7440-09-7	
Selenium	**0.35J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:19	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:19	7440-22-4	
Sodium	**13500**	ug/L	250	125	5	07/21/08 12:15	07/22/08 19:23	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:19	7440-28-0	
Total Hardness by 2340B	**222000**	ug/L	107	33.4	5	07/21/08 12:15	07/22/08 19:23		
Vanadium	**0.31**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:19	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 19:19	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-003 15' **Lab ID: 406127004** Collected: 07/08/08 12:15 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**5.8**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 19:27	7429-90-5	
Antimony	**7.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:27	7440-36-0	
Arsenic	**0.74**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:27	7440-38-2	
Barium	**7.5**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 19:27	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 11:58	7440-41-7	
Boron	**71.8**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 11:58	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:27	7440-43-9	
Calcium	**46100**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 19:32	7440-70-2	
Chromium	**1.4**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:27	7440-47-3	
Cobalt	**3.2**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:27	7440-48-4	
Copper	**1.4**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:27	7440-50-8	
Iron	**171**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 19:27	7439-89-6	
Lead	**0.060J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:27	7439-92-1	
Lithium	**3.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 11:58	7439-93-2	
Magnesium	**23300**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 19:32	7439-95-4	
Manganese	**126**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:27	7439-96-5	
Molybdenum	**11.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:27	7439-98-7	
Nickel	**11.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:27	7440-02-0	
Potassium	**7980**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 19:32	7440-09-7	
Selenium	**0.47J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:27	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:27	7440-22-4	
Sodium	**12700**	ug/L	250	125	5	07/21/08 12:15	07/22/08 19:32	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:27	7440-28-0	
Total Hardness by 2340B	**211000**	ug/L	107	33.4	5	07/21/08 12:15	07/22/08 19:32		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:27	7440-62-2	
Zinc	**2.6J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 19:27	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-003 60' **Lab ID: 406127005** Collected: 07/08/08 12:30 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**4.0**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 19:36	7429-90-5	
Antimony	**6.9**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:36	7440-36-0	
Arsenic	**0.83**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:36	7440-38-2	
Barium	**7.3**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 19:36	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 12:02	7440-41-7	
Boron	**73.4**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 12:02	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:36	7440-43-9	
Calcium	**47200**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 19:59	7440-70-2	
Chromium	**0.37J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:36	7440-47-3	
Cobalt	**3.3**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:36	7440-48-4	
Copper	**1.4**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:36	7440-50-8	
Iron	**208**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 19:36	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:36	7439-92-1	
Lithium	**3.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 12:02	7439-93-2	
Magnesium	**24000**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 19:59	7439-95-4	
Manganese	**139**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:36	7439-96-5	
Molybdenum	**10.9**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:36	7439-98-7	
Nickel	**10.9**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:36	7440-02-0	
Potassium	**8100**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 19:59	7440-09-7	
Selenium	**0.43J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 19:36	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 19:36	7440-22-4	
Sodium	**13200**	ug/L	250	125	5	07/21/08 12:15	07/22/08 19:59	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:36	7440-28-0	
Total Hardness by 2340B	**217000**	ug/L	107	33.4	5	07/21/08 12:15	07/22/08 19:59		
Vanadium	**0.056J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 19:36	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 19:36	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-003 120' **Lab ID: 406127006** Collected: 07/08/08 12:45 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**3.2J**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 20:03	7429-90-5	
Antimony	**8.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:03	7440-36-0	
Arsenic	**0.51**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:03	7440-38-2	
Barium	**8.3**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 20:03	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 12:07	7440-41-7	
Boron	**78.9**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 12:07	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:03	7440-43-9	
Calcium	**50400**	ug/L	1000	500	50	07/21/08 12:15	07/23/08 12:11	7440-70-2	
Chromium	**0.40J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:03	7440-47-3	
Cobalt	**4.5**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:03	7440-48-4	
Copper	**2.0**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:03	7440-50-8	
Iron	**192**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 20:03	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:03	7439-92-1	
Lithium	**3.2**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 12:07	7439-93-2	
Magnesium	**26400**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 20:07	7439-95-4	
Manganese	**356**	ug/L	2.5	1.2	5	07/21/08 12:15	07/22/08 20:07	7439-96-5	
Molybdenum	**12.5**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:03	7439-98-7	
Nickel	**20.5**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:03	7440-02-0	
Potassium	**9160**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 20:07	7440-09-7	
Selenium	**0.43J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:03	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:03	7440-22-4	
Sodium	**15100**	ug/L	250	125	5	07/21/08 12:15	07/22/08 20:07	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:03	7440-28-0	
Total Hardness by 2340B	**235000**	ug/L	1050	321	50	07/21/08 12:15	07/23/08 12:11		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:03	7440-62-2	
Zinc	**2.6J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 20:03	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-003 175' **Lab ID: 406127007** Collected: 07/08/08 13:10 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**14.9**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 20:12	7429-90-5	
Antimony	**38.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:12	7440-36-0	
Arsenic	**0.53**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:12	7440-38-2	
Barium	**12.9**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 20:12	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 12:16	7440-41-7	
Boron	**139**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 12:16	7440-42-8	
Cadmium	**0.087J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:12	7440-43-9	
Calcium	**51100**	ug/L	1000	500	50	07/21/08 12:15	07/23/08 12:20	7440-70-2	
Chromium	**0.95**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:12	7440-47-3	
Cobalt	**23.6**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:12	7440-48-4	
Copper	**3.8**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:12	7440-50-8	
Iron	**123**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 20:12	7439-89-6	
Lead	**0.26**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:12	7439-92-1	
Lithium	**3.4**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 12:16	7439-93-2	
Magnesium	**31700**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 20:16	7439-95-4	
Manganese	**2590**	ug/L	25.0	12.5	50	07/21/08 12:15	07/23/08 12:20	7439-96-5	
Molybdenum	**69.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:12	7439-98-7	
Nickel	**288**	ug/L	0.50	0.25	5	07/21/08 12:15	07/22/08 20:16	7440-02-0	
Potassium	**22100**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 20:16	7440-09-7	
Selenium	**0.55**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:12	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:12	7440-22-4	
Sodium	**34900**	ug/L	250	125	5	07/21/08 12:15	07/22/08 20:16	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:12	7440-28-0	
Total Hardness by 2340B	**258000**	ug/L	1050	321	50	07/21/08 12:15	07/23/08 12:20		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:12	7440-62-2	
Zinc	**4.2J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 20:12	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-004 3' **Lab ID: 406127008** Collected: 07/08/08 14:45 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**6.1**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 20:21	7429-90-5	
Antimony	**7.2**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:21	7440-36-0	
Arsenic	**0.70**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:21	7440-38-2	
Barium	**7.3**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 20:21	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 12:25	7440-41-7	
Boron	**73.0**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 12:25	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:21	7440-43-9	
Calcium	**48400**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 20:25	7440-70-2	
Chromium	**1.5**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:21	7440-47-3	
Cobalt	**3.8**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:21	7440-48-4	
Copper	**1.4**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:21	7440-50-8	
Iron	**140**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 20:21	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:21	7439-92-1	
Lithium	**2.9**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 12:25	7439-93-2	
Magnesium	**25000**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 20:25	7439-95-4	
Manganese	**105**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:21	7439-96-5	
Molybdenum	**11.5**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:21	7439-98-7	
Nickel	**12.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:21	7440-02-0	
Potassium	**8430**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 20:25	7440-09-7	
Selenium	**0.41J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:21	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:21	7440-22-4	
Sodium	**13800**	ug/L	250	125	5	07/21/08 12:15	07/22/08 20:25	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:21	7440-28-0	
Total Hardness by 2340B	**224000**	ug/L	107	33.4	5	07/21/08 12:15	07/22/08 20:25		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:21	7440-62-2	
Zinc	**2.6J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 20:21	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-004 15' **Lab ID: 406127009** Collected: 07/08/08 15:00 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**4.5**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 20:30	7429-90-5	
Antimony	**7.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:30	7440-36-0	
Arsenic	**0.73**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:30	7440-38-2	
Barium	**7.3**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 20:30	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 12:29	7440-41-7	
Boron	**72.6**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 12:29	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:30	7440-43-9	
Calcium	**48300**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 20:34	7440-70-2	
Chromium	**0.70**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:30	7440-47-3	
Cobalt	**3.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:30	7440-48-4	
Copper	**1.5**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:30	7440-50-8	
Iron	**125**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 20:30	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:30	7439-92-1	
Lithium	**2.9**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 12:29	7439-93-2	
Magnesium	**24800**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 20:34	7439-95-4	
Manganese	**118**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:30	7439-96-5	
Molybdenum	**10.7**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:30	7439-98-7	
Nickel	**10.4**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:30	7440-02-0	
Potassium	**8550**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 20:34	7440-09-7	
Selenium	**0.48J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:30	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:30	7440-22-4	
Sodium	**13800**	ug/L	250	125	5	07/21/08 12:15	07/22/08 20:34	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:30	7440-28-0	
Total Hardness by 2340B	**223000**	ug/L	107	33.4	5	07/21/08 12:15	07/22/08 20:34		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:30	7440-62-2	
Zinc	**2.6J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 20:30	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-004 60' **Lab ID: 406127010** Collected: 07/08/08 15:15 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**3.1J**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 20:39	7429-90-5	
Antimony	**8.1**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:39	7440-36-0	
Arsenic	**0.45**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:39	7440-38-2	
Barium	**8.4**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 20:39	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/23/08 12:48	7440-41-7	
Boron	**73.3**	ug/L	2.0	1.0	1	07/21/08 12:15	07/23/08 12:48	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:39	7440-43-9	
Calcium	**49800**	ug/L	1000	500	50	07/21/08 12:15	07/23/08 12:53	7440-70-2	
Chromium	**0.88**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:39	7440-47-3	
Cobalt	**4.7**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:39	7440-48-4	
Copper	**2.0**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:39	7440-50-8	
Iron	**196**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 20:39	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:39	7439-92-1	
Lithium	**3.0**	ug/L	0.10	0.050	1	07/21/08 12:15	07/23/08 12:48	7439-93-2	CL
Magnesium	**26300**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 20:56	7439-95-4	
Manganese	**339**	ug/L	2.5	1.2	5	07/21/08 12:15	07/22/08 20:56	7439-96-5	
Molybdenum	**12.6**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:39	7439-98-7	
Nickel	**21.8**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:39	7440-02-0	
Potassium	**9230**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 20:56	7440-09-7	
Selenium	**0.40J**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 20:39	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 20:39	7440-22-4	
Sodium	**15000**	ug/L	250	125	5	07/21/08 12:15	07/22/08 20:56	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:39	7440-28-0	
Total Hardness by 2340B	**233000**	ug/L	1050	321	50	07/21/08 12:15	07/23/08 12:53		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 20:39	7440-62-2	
Zinc	**3.6J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 20:39	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-004 120' **Lab ID: 406127011** Collected: 07/08/08 15:35 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**3.0J**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 21:01	7429-90-5	
Antimony	**28.4**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:01	7440-36-0	
Arsenic	**0.43**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 21:01	7440-38-2	
Barium	**9.5**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 21:01	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 21:01	7440-41-7	
Boron	**140**	ug/L	100	50.0	50	07/21/08 12:15	07/23/08 12:57	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:01	7440-43-9	
Calcium	**52200**	ug/L	1000	500	50	07/21/08 12:15	07/23/08 12:57	7440-70-2	
Chromium	**0.51**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 21:01	7440-47-3	
Cobalt	**16.5**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:01	7440-48-4	
Copper	**2.9**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 21:01	7440-50-8	
Iron	**100**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 21:01	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:01	7439-92-1	
Lithium	**3.6**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:01	7439-93-2	
Magnesium	**31000**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 21:05	7439-95-4	
Manganese	**1650**	ug/L	2.5	1.2	5	07/21/08 12:15	07/22/08 21:05	7439-96-5	
Molybdenum	**44.3**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:01	7439-98-7	
Nickel	**202**	ug/L	0.50	0.25	5	07/21/08 12:15	07/22/08 21:05	7440-02-0	
Potassium	**17700**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 21:05	7440-09-7	
Selenium	**0.59**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 21:01	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 21:01	7440-22-4	
Sodium	**27900**	ug/L	250	125	5	07/21/08 12:15	07/22/08 21:05	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:01	7440-28-0	
Total Hardness by 2340B	**258000**	ug/L	1050	321	50	07/21/08 12:15	07/23/08 12:57		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:01	7440-62-2	
Zinc	**3.1J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 21:01	7440-66-6	

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ANALYTICAL RESULTS

Project: 406127 FOTH
Pace Project No.: 1076750

Sample: HPL-004 175' **Lab ID: 406127012** Collected: 07/08/08 16:05 Received: 07/09/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**7.7**	ug/L	4.0	2.0	1	07/21/08 12:15	07/22/08 21:10	7429-90-5	
Antimony	**37.9**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:10	7440-36-0	
Arsenic	**0.56**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 21:10	7440-38-2	
Barium	**12.8**	ug/L	0.30	0.15	1	07/21/08 12:15	07/22/08 21:10	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 21:10	7440-41-7	
Boron	**154**	ug/L	100	50.0	50	07/21/08 12:15	07/23/08 13:02	7440-42-8	
Cadmium	**0.082J**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:10	7440-43-9	
Calcium	**52400**	ug/L	1000	500	50	07/21/08 12:15	07/23/08 13:02	7440-70-2	
Chromium	**0.90**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 21:10	7440-47-3	
Cobalt	**24.6**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:10	7440-48-4	
Copper	**4.0**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 21:10	7440-50-8	
Iron	**122**	ug/L	50.0	25.0	1	07/21/08 12:15	07/22/08 21:10	7439-89-6	
Lead	**0.31**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:10	7439-92-1	
Lithium	**3.6**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:10	7439-93-2	
Magnesium	**33300**	ug/L	25.0	12.5	5	07/21/08 12:15	07/22/08 21:14	7439-95-4	
Manganese	**2550**	ug/L	25.0	12.5	50	07/21/08 12:15	07/23/08 13:02	7439-96-5	
Molybdenum	**68.7**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:10	7439-98-7	
Nickel	**303**	ug/L	0.50	0.25	5	07/21/08 12:15	07/22/08 21:14	7440-02-0	
Potassium	**23000**	ug/L	100	50.0	5	07/21/08 12:15	07/22/08 21:14	7440-09-7	
Selenium	**0.52**	ug/L	0.50	0.25	1	07/21/08 12:15	07/22/08 21:10	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/21/08 12:15	07/22/08 21:10	7440-22-4	
Sodium	**35800**	ug/L	250	125	5	07/21/08 12:15	07/22/08 21:14	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:10	7440-28-0	
Total Hardness by 2340B	**268000**	ug/L	1050	321	50	07/21/08 12:15	07/23/08 13:02		
Vanadium	**<0.050**	ug/L	0.10	0.050	1	07/21/08 12:15	07/22/08 21:10	7440-62-2	
Zinc	**3.7J**	ug/L	5.0	2.5	1	07/21/08 12:15	07/22/08 21:10	7440-66-6	

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 406127 FOTH
Pace Project No.: 1076750

QC Batch: MPRP/12654 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008

METHOD BLANK: 500772

Associated Lab Samples: 406127001, 406127002, 406127003, 406127004, 406127005, 406127006, 406127007, 406127008, 406127009, 406127010, 406127011, 406127012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	<2.0	4.0	
Antimony	ug/L	<0.050	0.10	
Arsenic	ug/L	<0.10	0.20	
Barium	ug/L	<0.15	0.30	
Beryllium	ug/L	<0.10	0.20	
Boron	ug/L	<1.0	2.0	
Cadmium	ug/L	<0.050	0.10	
Calcium	ug/L	<10.0	20.0	
Chromium	ug/L	<0.25	0.50	
Cobalt	ug/L	<0.050	0.10	
Copper	ug/L	<0.10	0.20	
Iron	ug/L	<25.0	50.0	
Lead	ug/L	<0.050	0.10	
Lithium	ug/L	<0.050	0.10	
Magnesium	ug/L	<2.5	5.0	
Manganese	ug/L	<0.25	0.50	
Molybdenum	ug/L	<0.050	0.10	
Nickel	ug/L	<0.050	0.10	
Potassium	ug/L	<10.0	20.0	
Selenium	ug/L	<0.25	0.50	
Silver	ug/L	<0.10	0.20	
Sodium	ug/L	<25.0	50.0	
Thallium	ug/L	<0.050	0.10	
Total Hardness by 2340B	ug/L	16.0J	21.3	
Vanadium	ug/L	<0.050	0.10	
Zinc	ug/L	<2.5	5.0	

LABORATORY CONTROL SAMPLE: 500773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	85.7	107	85-115	
Antimony	ug/L	80	80.5	101	85-115	
Arsenic	ug/L	80	77.7	97	85-115	
Barium	ug/L	80	82.8	103	85-115	
Beryllium	ug/L	80	84.6	106	85-115	
Boron	ug/L	80	83.8	105	85-115	
Cadmium	ug/L	80	80.3	100	85-115	
Calcium	ug/L	1000	980	98	85-115	
Chromium	ug/L	80	82.7	103	85-115	
Cobalt	ug/L	80	80.0	100	85-115	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 406127 FOTH
Pace Project No.: 1076750

LABORATORY CONTROL SAMPLE: 500773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	80	80.0	100	85-115	
Iron	ug/L	1000	1040	104	85-115	
Lead	ug/L	80	80.4	101	85-115	
Lithium	ug/L	80	84.8	106	85-115	
Magnesium	ug/L	1000	931	93	85-115	
Manganese	ug/L	80	83.1	104	85-115	
Molybdenum	ug/L	80	83.2	104	85-115	
Nickel	ug/L	80	76.2	95	85-115	
Potassium	ug/L	1000	989	99	85-115	
Selenium	ug/L	160	150	94	85-115	
Silver	ug/L	80	85.6	107	85-115	
Sodium	ug/L	1000	1010	101	85-115	
Thallium	ug/L	80	80.1	100	85-115	
Total Hardness by 2340B	ug/L		6280			
Vanadium	ug/L	80	80.6	101	85-115	
Zinc	ug/L	80	79.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 500774 500775

Parameter	Units	406074001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	<2.0	80	80	85.9	86.1	105	106	70-130	.2	20	
Antimony	ug/L	<0.050	80	80	82.7	80.4	103	100	70-130	3	20	
Arsenic	ug/L	<0.10	80	80	80.3	80.3	100	100	70-130	.08	20	
Barium	ug/L	0.16J	80	80	82.4	81.1	103	101	70-130	2	20	
Beryllium	ug/L	<0.10	80	80	87.0	86.6	109	108	70-130	.5	20	
Boron	ug/L	3.1	80	80	85.6	89.3	103	108	70-130	4	20	
Cadmium	ug/L	<0.050	80	80	81.6	80.5	102	101	70-130	1	20	
Calcium	ug/L	19.9J	1000	1000	1010	1030	99	101	70-130	1	20	
Chromium	ug/L	0.48J	80	80	84.0	84.5	104	105	70-130	.5	20	
Cobalt	ug/L	<0.050	80	80	82.7	80.4	103	100	70-130	3	20	
Copper	ug/L	1.0	80	80	83.0	79.8	102	99	70-130	4	20	
Iron	ug/L	<25.0	1000	1000	1040	1060	102	104	70-130	2	20	
Lead	ug/L	<0.050	80	80	83.8	81.8	105	102	70-130	2	20	
Lithium	ug/L	<0.050	80	80	85.7	85.5	107	107	70-130	.2	20	
Magnesium	ug/L	8.4	1000	1000	943	936	93	93	70-130	.8	20	
Manganese	ug/L	3.0	80	80	86.6	87.1	104	105	70-130	.6	20	
Molybdenum	ug/L	<0.050	80	80	82.8	81.5	103	102	70-130	2	20	
Nickel	ug/L	0.20	80	80	81.3	78.1	101	97	70-130	4	20	
Potassium	ug/L	20.9	1000	1000	1040	1010	102	99	70-130	3	20	
Selenium	ug/L	<0.25	160	160	155	153	97	96	70-130	.9	20	
Silver	ug/L	<0.10	80	80	80.7	82.6	101	103	70-130	2	20	
Sodium	ug/L	475	1000	1000	1470	1500	99	102	70-130	2	20	
Thallium	ug/L	<0.050	80	80	83.7	82.1	105	103	70-130	2	20	
Total Hardness by 2340B	ug/L	84.1			6410	6410				.1	20	
Vanadium	ug/L	<0.050	80	80	84.2	82.1	105	103	70-130	3	20	
Zinc	ug/L	2.6J	80	80	85.9	82.9	104	100	70-130	3	20	

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 406127 FOTH
Pace Project No.: 1076750

MATRIX SPIKE SAMPLE: 500776

Parameter	Units	406127003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	35.9	80	127	114	70-130	
Antimony	ug/L	7.1	80	90.5	104	70-130	
Arsenic	ug/L	0.73	80	80.4	100	70-130	
Barium	ug/L	7.2	80	92.7	107	70-130	
Beryllium	ug/L	<0.10	80	78.7	98	70-130	
Boron	ug/L	73.5	80	157	105	70-130	
Cadmium	ug/L	<0.050	80	81.1	101	70-130	
Calcium	ug/L	48200	1000	49100	98	70-130	
Chromium	ug/L	3.9	80	89.0	106	70-130	
Cobalt	ug/L	4.8	80	86.6	102	70-130	
Copper	ug/L	1.4	80	80.7	99	70-130	
Iron	ug/L	171	1000	1230	105	70-130	
Lead	ug/L	0.15	80	83.3	104	70-130	
Lithium	ug/L	3.1	80	79.8	96	70-130	
Magnesium	ug/L	24700	1000	25300	64	70-130	P6
Manganese	ug/L	111	80	191	101	70-130	
Molybdenum	ug/L	11.8	80	95.6	105	70-130	
Nickel	ug/L	13.0	80	91.1	98	70-130	
Potassium	ug/L	8440	1000	9430	98	70-130	
Selenium	ug/L	0.35J	160	155	97	70-130	
Silver	ug/L	<0.10	80	81.1	101	70-130	
Sodium	ug/L	13500	1000	14300	80	70-130	
Thallium	ug/L	<0.050	80	82.8	104	70-130	
Total Hardness by 2340B	ug/L	222000		227000			
Vanadium	ug/L	0.31	80	83.2	104	70-130	
Zinc	ug/L	<2.5	80	86.5	107	70-130	

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 406127 FOTH
Pace Project No.: 1076750

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 406127 FOTH
Pace Project No.: 1076750

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406127001	**FBK-004**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127002	**DUP-004**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127003	**HPL-003 3'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127004	**HPL-003 15'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127005	**HPL-003 60'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127006	**HPL-003 120'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127007	**HPL-003 175'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127008	**HPL-004 3'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127009	**HPL-004 15'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127010	**HPL-004 60'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127011	**HPL-004 120'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993
406127012	**HPL-004 175'**	EPA 3020	MPRP/12654	EPA 6020	ICPM/4993

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Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson / Foth Project # 406127

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Poly

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/9/08

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. Nitrate
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed: ✓ Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: NAT **Date:** 7/9/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

(X) = 1-1L Poly, 4-500mL AD, 1LL, 1A, 4-250mL A, C, B, N, 2-125mL AG

2008 0708

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/GRAB DATE	Composite End/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn, NaOH	Analysis Test (Y/N)	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 406127
																				N	N	N	N	N	N	N	Y	N				
1	FBK-004	001	WT	-			07/08/08	1400	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	(X)
2	DUP-004	002	WT	G			7/08/08	-	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	(X) (-) 1-250mL + 1-500
3	HPL-003 3'	003	WT	G			7/08/08	1145	21	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	(X)
4	HPL-003 15'	004	WT	G			7/8/08	1215	16	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	
5	HPL-003 60'	005	WT	G			7/8/08	1230	3	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	
6	HPL-003 120'	006	WT	G			7/8/08	1245	4	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	
7	HPL-003 175	007	WT	G			7/8/08	1310	4	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	
8	HPL-004 3'	008	WT	G			7/8/08	1445	22	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	
9	HPL-004 15'	009	WT	G			7/8/08	1500	15	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	
10	HPL-004 60'	010	WT	G			7/8/08	1515	3	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	(X) + 2-125mL AG, 1-500mL
11	HPL-004 120'	011	WT	G			7/8/08	1535	4	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	(X)
12	HPL-004 175'	012	WT	G			7/8/08	1605	4	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2			N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Curt Sheffield NIC	07/09/08	1800							
	FedEx	7/9/08	1000		7/9/08	1000	Rec'd 2°	4	4	4

7927 2544 6613
7984 7556 9015
7911 0081 4884
7905 4059 4594
7993 4971 6127
7911 0081 3373

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CURT SHEFFIELD RICHARD EAGLE

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 07/08/08

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Batch No. 406200

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

July 25, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL
Pace Project No.: 406200

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT MILL
Pace Project No.: 406200

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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1241 Bellevue Street
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(920)469-2436

SAMPLE SUMMARY

Project: HUMBOLDT MILL
Pace Project No.: 406200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
406200001	**FBK-005**	Water	07/09/08 11:00	07/10/08 09:45
406200002	**HMP-004**	Water	07/09/08 10:35	07/10/08 09:45
406200003	**HMP-009**	Water	07/09/08 11:45	07/10/08 09:45
406200004	**DUP-005**	Water	07/09/08 00:00	07/10/08 09:45
406200005	**WLD-001**	Water	07/09/08 13:15	07/10/08 09:45
406200006	**HMP-007**	Water	07/09/08 13:45	07/10/08 09:45
406200007	**HMP-005**	Water	07/09/08 14:15	07/10/08 09:45

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406200

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
406200001	FBK-005	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406200002	HMP-004	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406200003	HMP-009	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406200004	DUP-005	EPA 1631E	GMW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406200

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406200005	WLD-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406200006	HMP-007	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G
406200007	HMP-005	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL
Pace Project No.: 406200

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	PK1	1	PASI-G
		SM 5310C	PK1	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1926

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 406200002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 51076)
  - Nitrite as N
- MSD (Lab ID: 51077)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/1927

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 406200002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 51090)
  - Chloride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: July 25, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406200

Sample: FBK-005 **Lab ID: 406200001** Collected: 07/09/08 11:00 Received: 07/10/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.172J**	ng/L	0.50	0.16	1	07/14/08 11:45	07/17/08 11:07	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.45J**	NTU	1.0	0.44	1		07/10/08 13:14		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:45		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:45		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		07/15/08 11:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		07/15/08 10:10		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/11/08 11:40		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/10/08 21:14	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/11/08 01:15	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		07/10/08 21:14	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		07/10/08 21:14	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		07/10/08 21:14	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/22/08 14:42	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:54	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		07/21/08 10:09	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.9**	mg/L	2.0	1.4	1		07/21/08 08:24		

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(920)469-2436

ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406200

Sample: HMP-004 **Lab ID: 406200002** Collected: 07/09/08 10:35 Received: 07/10/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**6.49**	ng/L	0.50	0.16	1	07/14/08 11:45	07/17/08 11:32	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**5.7**	NTU	1.0	0.44	1		07/10/08 13:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**74.8**	mg/L	10.0	3.2	1		07/17/08 13:45		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:45		
Alkalinity, Total as CaCO3	**74.8**	mg/L	10.0	3.2	1		07/17/08 13:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**190**	mg/L	20.0	12.0	1		07/15/08 11:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**10.6**	mg/L	2.0	0.62	1		07/15/08 10:10		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/11/08 11:40		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.1**	mg/L	0.40	0.085	1		07/10/08 21:28	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/11/08 01:29	14797-65-0	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**8.1**	mg/L	5.0	1.1	1		07/10/08 21:28	16887-00-6	M0
Fluoride	**0.24J**	mg/L	0.50	0.059	1		07/10/08 21:28	16984-48-8	
Sulfate	**33.4**	mg/L	4.0	0.51	1		07/10/08 21:28	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/22/08 14:43	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:55	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**80.0**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**27.0**	mg/L	2.0	1.4	1		07/21/08 10:21	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**25.9**	mg/L	2.0	1.4	1		07/21/08 08:33		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406200

Sample: HMP-009 **Lab ID: 406200003** Collected: 07/09/08 11:45 Received: 07/10/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.742**	ng/L	0.50	0.16	1	07/14/08 11:45	07/17/08 12:27	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.2**	NTU	1.0	0.44	1		07/10/08 13:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	10.0	3.2	1		07/17/08 13:46		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:46		
Alkalinity, Total as CaCO3	**101**	mg/L	10.0	3.2	1		07/17/08 13:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**338**	mg/L	20.0	12.0	1		07/15/08 11:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**6.3**	mg/L	1.0	0.31	1		07/15/08 10:10		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/11/08 11:40		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.6**	mg/L	0.40	0.085	1		07/10/08 22:10	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/11/08 02:11	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.2**	mg/L	5.0	1.1	1		07/10/08 22:10	16887-00-6	
Fluoride	**0.26J**	mg/L	0.50	0.059	1		07/10/08 22:10	16984-48-8	
Sulfate	**126**	mg/L	20.0	2.6	5		07/11/08 17:15	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0070J**	mg/L	0.020	0.0060	1		07/22/08 14:44	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 13:59	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.6**	mg/L	2.0	1.4	1		07/21/08 10:30	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.9**	mg/L	2.0	1.4	1		07/21/08 08:36		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406200

Sample: DUP-005 **Lab ID: 406200004** Collected: 07/09/08 00:00 Received: 07/10/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.611**	ng/L	0.50	0.16	1	07/14/08 11:45	07/17/08 12:32	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.3**	NTU	1.0	0.44	1		07/10/08 13:16		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	10.0	3.2	1		07/17/08 13:46		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:46		
Alkalinity, Total as CaCO3	**103**	mg/L	10.0	3.2	1		07/17/08 13:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**332**	mg/L	20.0	12.0	1		07/15/08 11:30		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.6**	mg/L	1.0	0.31	1		07/15/08 10:10		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/11/08 11:40		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.6**	mg/L	0.40	0.085	1		07/10/08 22:25	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/11/08 02:26	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.2**	mg/L	5.0	1.1	1		07/10/08 22:25	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		07/10/08 22:25	16984-48-8	
Sulfate	**125**	mg/L	20.0	2.6	5		07/11/08 17:29	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0075J**	mg/L	0.020	0.0060	1		07/22/08 14:45	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 14:00	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		07/15/08 10:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.1**	mg/L	2.0	1.4	1		07/21/08 10:41	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**6.5**	mg/L	2.0	1.4	1		07/21/08 08:40		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406200

Sample: WLD-001 **Lab ID: 406200005** Collected: 07/09/08 13:15 Received: 07/10/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.900**	ng/L	0.50	0.16	1	07/14/08 11:45	07/17/08 12:43	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**12.8**	NTU	1.0	0.44	1		07/10/08 13:16		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**99.0**	mg/L	10.0	3.2	1		07/17/08 13:46		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:46		
Alkalinity, Total as CaCO3	**99.0**	mg/L	10.0	3.2	1		07/17/08 13:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**126**	mg/L	20.0	12.0	1		07/15/08 11:31		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**5.4**	mg/L	2.0	0.62	1		07/15/08 10:10		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/11/08 11:40		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		07/10/08 22:39	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/11/08 02:40	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.4J**	mg/L	5.0	1.1	1		07/10/08 22:39	16887-00-6	
Fluoride	**0.40J**	mg/L	0.50	0.059	1		07/10/08 22:39	16984-48-8	
Sulfate	**3.5J**	mg/L	4.0	0.51	1		07/10/08 22:39	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/22/08 14:45	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 14:01	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**28.6J**	mg/L	50.0	10.8	1		07/23/08 12:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.9**	mg/L	2.0	1.4	1		07/21/08 10:48	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**16.2**	mg/L	2.0	1.4	1		07/21/08 08:45		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406200

Sample: HMP-007 **Lab ID: 406200006** Collected: 07/09/08 13:45 Received: 07/10/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**2.48**	ng/L	0.50	0.16	1	07/14/08 11:45	07/17/08 12:52	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**51.1**	NTU	1.0	0.44	1		07/10/08 13:16		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**57.2**	mg/L	10.0	3.2	1		07/17/08 13:47		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:47		
Alkalinity, Total as CaCO3	**57.2**	mg/L	10.0	3.2	1		07/17/08 13:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**150**	mg/L	20.0	12.0	1		07/15/08 11:31		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**33.0**	mg/L	10.0	3.1	1		07/15/08 10:10		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/11/08 11:40		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.24J**	mg/L	0.40	0.085	1		07/10/08 23:21	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/11/08 02:54	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**30.7**	mg/L	5.0	1.1	1		07/10/08 23:21	16887-00-6	
Fluoride	**0.24J**	mg/L	0.50	0.059	1		07/10/08 23:21	16984-48-8	
Sulfate	**4.3**	mg/L	4.0	0.51	1		07/10/08 23:21	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/22/08 14:49	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 14:01	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**53.2**	mg/L	50.0	10.8	1		07/23/08 12:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**17.4**	mg/L	2.0	1.4	1		07/21/08 11:22	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**18.3**	mg/L	2.0	1.4	1		07/21/08 08:53		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL
Pace Project No.: 406200

Sample: HMP-005 **Lab ID: 406200007** Collected: 07/09/08 14:15 Received: 07/10/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.330J**	ng/L	0.50	0.16	1	07/14/08 11:45	07/17/08 12:57	7439-97-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**18.6**	NTU	1.0	0.44	1		07/10/08 13:17		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	10.0	3.2	1		07/17/08 13:47		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		07/17/08 13:47		
Alkalinity, Total as CaCO3	**103**	mg/L	10.0	3.2	1		07/17/08 13:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**248**	mg/L	20.0	12.0	1		07/15/08 11:32		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**8.9**	mg/L	1.3	0.41	1		07/15/08 10:10		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		07/11/08 11:40		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.25J**	mg/L	0.40	0.085	1		07/10/08 23:35	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		07/11/08 03:36	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.7**	mg/L	5.0	1.1	1		07/10/08 23:35	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		07/10/08 23:35	16984-48-8	
Sulfate	**98.0**	mg/L	20.0	2.6	5		07/11/08 17:44	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		07/22/08 14:50	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		07/14/08 14:02	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		07/23/08 12:10		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**4.9**	mg/L	2.0	1.4	1		07/21/08 11:28	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.0**	mg/L	2.0	1.4	1		07/21/08 09:02		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WETA/1926 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 51074
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	
Nitrite as N	mg/L	<0.036	0.10	

LABORATORY CONTROL SAMPLE: 51075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.5	96	90-110	
Nitrite as N	mg/L	.8	0.75	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51076 51077

Parameter	Units	406200002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.1	1.6	1.6	2.5	2.6	91	91	90-110	.4	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.66	0.64	82	80	90-110	3	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WETA/1927 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 51088
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	<1.1	5.0	
Fluoride	mg/L	<0.059	0.50	
Sulfate	mg/L	<0.51	4.0	

LABORATORY CONTROL SAMPLE: 51089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.7	94	90-110	
Fluoride	mg/L	2	1.9	96	90-110	
Sulfate	mg/L	16	15.6	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51090 51091

Parameter	Units	406200002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.1	20	20	26.0	26.2	89	91	90-110	1	20	M0
Fluoride	mg/L	0.24J	2	2	2.1	2.1	92	92	90-110	.5	20	
Sulfate	mg/L	33.4	16	16	50.2	50.1	105	105	90-110	.2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WET/1814 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 51234
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Turbidity	NTU	<0.44	1.0	

LABORATORY CONTROL SAMPLE: 51235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	530	528	100		

SAMPLE DUPLICATE: 51236

Parameter	Units	406054001 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	11.8	11.9	.8	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WETA/1933 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 51616
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	

LABORATORY CONTROL SAMPLE: 51617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51618 51619

Parameter	Units	406200002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.7	10.7	106	107	90-110	.6	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51620 51621

Parameter	Units	406233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.9	10.9	109	109	90-110	.04	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WET/1831 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 51814
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	

LABORATORY CONTROL SAMPLE: 51815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	310	298	96	80-120	

SAMPLE DUPLICATE: 51816

Parameter	Units	406118002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1770	1800	2	10	

SAMPLE DUPLICATE: 51817

Parameter	Units	406200006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	33.0	32.0	3	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WET/1834 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 51943
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	

LABORATORY CONTROL SAMPLE: 51944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1060	1060	100	80-120	

SAMPLE DUPLICATE: 51945

Parameter	Units	406127010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	348	364	4	10	

SAMPLE DUPLICATE: 51946

Parameter	Units	406200004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	332	334	.6	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WET/1835 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 51984
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfide	mg/L	<2.3	5.0	

LABORATORY CONTROL SAMPLE: 51985

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	49.2	46.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 51986 51987

Parameter	Units	406200003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.3	49.2	49.2	43.6	48.0	88	97	80-120	10	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WETA/1946 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 52162
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 52163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	98.3	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52164 52165

Parameter	Units	1076634008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.6J	100	100	118	121	116	120	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52805 52806

Parameter	Units	406390001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.6	100	100	119	117	116	113	80-120	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WETA/1947 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 52166
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	

LABORATORY CONTROL SAMPLE: 52167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	98.2	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52168 52169

Parameter	Units	406200001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	3.9	100	100	118	120	114	116	80-120	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WETA/1948 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004

METHOD BLANK: 52200
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 52201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	504	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52202 52203

Parameter	Units	406102002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	41.8J	526	526	585	575	103	101	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52204 52205

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	11.3J	526	526	557	545	104	101	90-110	2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WET/1856 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 53092
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	

LABORATORY CONTROL SAMPLE: 53093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	499	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53094 53095

Parameter	Units	406200002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	74.8	500	500	574	576	100	100	80-120	.4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: CVFS/1146 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 53121
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 53122
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

METHOD BLANK: 53123
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ng/L	<0.16	0.50	

LABORATORY CONTROL SAMPLE & LCSD: 53124 53125

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.65	5.17	113	103	79-121	9	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53126 53127

Parameter	Units	406182001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	56.7	200	200	275	278	109	111	75-125	1	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53128 53129

Parameter	Units	406182010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	25.7	100	100	113	115	88	90	75-125	2	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WETA/1987 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 54437
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cyanide	mg/L	<0.0060	0.020	

LABORATORY CONTROL SAMPLE: 54438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54439 54440

Parameter	Units	406127010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.0077J	.1	.1	0.10	0.10	94	95	90-110	.9	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54441 54442

Parameter	Units	406209003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.036	.6	.6	0.59	0.60	94	96	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL
Pace Project No.: 406200

QC Batch: WETA/2009 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 406200005, 406200006, 406200007

METHOD BLANK: 55481
Associated Lab Samples: 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	

LABORATORY CONTROL SAMPLE: 55482

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	504	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 55483 55484

Parameter	Units	406623001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	188	526	526	726	726	102	102	90-110	0	10	

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QUALIFIERS

Project: HUMBOLDT MILL
Pace Project No.: 406200

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406200001	FBK-005	EPA 300.0	WETA/1926		
406200002	HMP-004	EPA 300.0	WETA/1926		
406200003	HMP-009	EPA 300.0	WETA/1926		
406200004	DUP-005	EPA 300.0	WETA/1926		
406200005	WLD-001	EPA 300.0	WETA/1926		
406200006	HMP-007	EPA 300.0	WETA/1926		
406200007	HMP-005	EPA 300.0	WETA/1926		
406200001	FBK-005	EPA 300.0	WETA/1927		
406200002	HMP-004	EPA 300.0	WETA/1927		
406200003	HMP-009	EPA 300.0	WETA/1927		
406200004	DUP-005	EPA 300.0	WETA/1927		
406200005	WLD-001	EPA 300.0	WETA/1927		
406200006	HMP-007	EPA 300.0	WETA/1927		
406200007	HMP-005	EPA 300.0	WETA/1927		
406200001	FBK-005	SM 2130B	WET/1814		
406200002	HMP-004	SM 2130B	WET/1814		
406200003	HMP-009	SM 2130B	WET/1814		
406200004	DUP-005	SM 2130B	WET/1814		
406200005	WLD-001	SM 2130B	WET/1814		
406200006	HMP-007	SM 2130B	WET/1814		
406200007	HMP-005	SM 2130B	WET/1814		
406200001	FBK-005	EPA 350.1	WETA/1933		
406200002	HMP-004	EPA 350.1	WETA/1933		
406200003	HMP-009	EPA 350.1	WETA/1933		
406200004	DUP-005	EPA 350.1	WETA/1933		
406200005	WLD-001	EPA 350.1	WETA/1933		
406200006	HMP-007	EPA 350.1	WETA/1933		
406200007	HMP-005	EPA 350.1	WETA/1933		
406200001	FBK-005	SM 2540D	WET/1831		
406200002	HMP-004	SM 2540D	WET/1831		
406200003	HMP-009	SM 2540D	WET/1831		
406200004	DUP-005	SM 2540D	WET/1831		
406200005	WLD-001	SM 2540D	WET/1831		
406200006	HMP-007	SM 2540D	WET/1831		
406200007	HMP-005	SM 2540D	WET/1831		
406200001	FBK-005	SM 2540C	WET/1834		
406200002	HMP-004	SM 2540C	WET/1834		
406200003	HMP-009	SM 2540C	WET/1834		
406200004	DUP-005	SM 2540C	WET/1834		
406200005	WLD-001	SM 2540C	WET/1834		
406200006	HMP-007	SM 2540C	WET/1834		
406200007	HMP-005	SM 2540C	WET/1834		
406200001	FBK-005	SM 4500-S F (2000)	WET/1835		
406200002	HMP-004	SM 4500-S F (2000)	WET/1835		
406200003	HMP-009	SM 4500-S F (2000)	WET/1835		
406200004	DUP-005	SM 4500-S F (2000)	WET/1835		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL
Pace Project No.: 406200

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406200005	WLD-001	SM 4500-S F (2000)	WET/1835		
406200006	HMP-007	SM 4500-S F (2000)	WET/1835		
406200007	HMP-005	SM 4500-S F (2000)	WET/1835		
406200001	FBK-005	SM 5310C	WETA/1946		
406200002	HMP-004	SM 5310C	WETA/1946		
406200003	HMP-009	SM 5310C	WETA/1946		
406200004	DUP-005	SM 5310C	WETA/1946		
406200005	WLD-001	SM 5310C	WETA/1946		
406200006	HMP-007	SM 5310C	WETA/1946		
406200007	HMP-005	SM 5310C	WETA/1946		
406200001	FBK-005	SM 5310C	WETA/1947		
406200002	HMP-004	SM 5310C	WETA/1947		
406200003	HMP-009	SM 5310C	WETA/1947		
406200004	DUP-005	SM 5310C	WETA/1947		
406200005	WLD-001	SM 5310C	WETA/1947		
406200006	HMP-007	SM 5310C	WETA/1947		
406200007	HMP-005	SM 5310C	WETA/1947		
406200001	FBK-005	EPA 410.4	WETA/1948		
406200002	HMP-004	EPA 410.4	WETA/1948		
406200003	HMP-009	EPA 410.4	WETA/1948		
406200004	DUP-005	EPA 410.4	WETA/1948		
406200001	FBK-005	SM 2320B	WET/1856		
406200002	HMP-004	SM 2320B	WET/1856		
406200003	HMP-009	SM 2320B	WET/1856		
406200004	DUP-005	SM 2320B	WET/1856		
406200005	WLD-001	SM 2320B	WET/1856		
406200006	HMP-007	SM 2320B	WET/1856		
406200007	HMP-005	SM 2320B	WET/1856		
406200001	FBK-005	EPA 1631E	CVFS/1146	EPA 1631E	CVFS/1147
406200002	HMP-004	EPA 1631E	CVFS/1146	EPA 1631E	CVFS/1147
406200003	HMP-009	EPA 1631E	CVFS/1146	EPA 1631E	CVFS/1147
406200004	DUP-005	EPA 1631E	CVFS/1146	EPA 1631E	CVFS/1147
406200005	WLD-001	EPA 1631E	CVFS/1146	EPA 1631E	CVFS/1147
406200006	HMP-007	EPA 1631E	CVFS/1146	EPA 1631E	CVFS/1147
406200007	HMP-005	EPA 1631E	CVFS/1146	EPA 1631E	CVFS/1147
406200001	FBK-005	EPA 335.4	WETA/1987		
406200002	HMP-004	EPA 335.4	WETA/1987		
406200003	HMP-009	EPA 335.4	WETA/1987		
406200004	DUP-005	EPA 335.4	WETA/1987		
406200005	WLD-001	EPA 335.4	WETA/1987		
406200006	HMP-007	EPA 335.4	WETA/1987		
406200007	HMP-005	EPA 335.4	WETA/1987		
406200005	WLD-001	EPA 410.4	WETA/2009		
406200006	HMP-007	EPA 410.4	WETA/2009		
406200007	HMP-005	EPA 410.4	WETA/2009		

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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

July 25, 2008

Client Services
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 406200 FOTH
Pace Project No.: 1076905

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on July 10, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julie Thieschafer for
Sylvia Hunter
sylvia.hunter@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

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SAMPLE SUMMARY

Project: 406200 FOTH
Pace Project No.: 1076905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
406200001	**FBK-005**	Water	07/09/08 11:00	07/10/08 00:00
406200002	**HMP-004**	Water	07/09/08 10:35	07/10/08 00:00
406200003	**HMP-009**	Water	07/09/08 11:45	07/10/08 00:00
406200004	**DUP-005**	Water	07/09/08 00:00	07/10/08 00:00
406200005	**WLD-001**	Water	07/09/08 13:15	07/10/08 00:00
406200006	**HMP-007**	Water	07/09/08 13:45	07/10/08 00:00
406200007	**HMP-005**	Water	07/09/08 14:15	07/10/08 00:00

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SAMPLE ANALYTE COUNT

Project: 406200 FOTH
Pace Project No.: 1076905

Lab ID	Sample ID	Method	Analysts	Analytes Reported
406200001	FBK-005	EPA 6020	RJS	26
406200002	HMP-004	EPA 6020	RJS	26
406200003	HMP-009	EPA 6020	RJS	26
406200004	DUP-005	EPA 6020	RJS	26
406200005	WLD-001	EPA 6020	RJS	26
406200006	HMP-007	EPA 6020	RJS	26
406200007	HMP-005	EPA 6020	RJS	26

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ANALYTICAL RESULTS

Project: 406200 FOTH
Pace Project No.: 1076905

Sample: FBK-005 **Lab ID: 406200001** Collected: 07/09/08 11:00 Received: 07/10/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**23.4**	ug/L	20.0	10.0	5	07/22/08 16:27	07/23/08 14:08	7429-90-5	
Antimony	**<0.25**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7440-36-0	
Arsenic	**<0.50**	ug/L	1.0	0.50	5	07/22/08 16:27	07/23/08 14:08	7440-38-2	
Barium	**<0.75**	ug/L	1.5	0.75	5	07/22/08 16:27	07/23/08 14:08	7440-39-3	
Beryllium	**<0.50**	ug/L	1.0	0.50	5	07/22/08 16:27	07/23/08 14:08	7440-41-7	
Boron	**27.9**	ug/L	10.0	5.0	5	07/22/08 16:27	07/23/08 14:08	7440-42-8	
Cadmium	**<0.25**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7440-43-9	
Calcium	**247**	ug/L	100	50.0	5	07/22/08 16:27	07/23/08 14:08	7440-70-2	
Chromium	**2.7**	ug/L	2.5	1.2	5	07/22/08 16:27	07/23/08 14:08	7440-47-3	
Cobalt	**<0.25**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7440-48-4	
Copper	**4.6**	ug/L	1.0	0.50	5	07/22/08 16:27	07/23/08 14:08	7440-50-8	
Iron	**135J**	ug/L	250	125	5	07/22/08 16:27	07/23/08 14:08	7439-89-6	
Lead	**<0.25**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7439-92-1	
Lithium	**<0.25**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7439-93-2	
Magnesium	**62.8**	ug/L	25.0	12.5	5	07/22/08 16:27	07/23/08 14:08	7439-95-4	
Manganese	**11.4**	ug/L	2.5	1.2	5	07/22/08 16:27	07/23/08 14:08	7439-96-5	
Molybdenum	**<0.25**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7439-98-7	
Nickel	**0.58**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7440-02-0	
Potassium	**94.3J**	ug/L	100	50.0	5	07/22/08 16:27	07/23/08 14:08	7440-09-7	
Selenium	**<1.2**	ug/L	2.5	1.2	5	07/22/08 16:27	07/23/08 14:08	7782-49-2	
Silver	**<0.50**	ug/L	1.0	0.50	5	07/22/08 16:27	07/23/08 14:08	7440-22-4	
Sodium	**2630**	ug/L	250	125	5	07/22/08 16:27	07/23/08 14:08	7440-23-5	M0
Thallium	**<0.25**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7440-28-0	
Total Hardness by 2340B	**876**	ug/L	125	62.5	5	07/22/08 16:27	07/23/08 14:08		
Vanadium	**0.26J**	ug/L	0.50	0.25	5	07/22/08 16:27	07/23/08 14:08	7440-62-2	
Zinc	**28.6**	ug/L	25.0	12.5	5	07/22/08 16:27	07/23/08 14:08	7440-66-6	

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ANALYTICAL RESULTS

Project: 406200 FOTH
Pace Project No.: 1076905

Sample: HMP-004 **Lab ID: 406200002** Collected: 07/09/08 10:35 Received: 07/10/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**80.0**	ug/L	4.0	2.0	1	07/22/08 16:27	07/23/08 15:34	7429-90-5	
Antimony	**4.6**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7440-36-0	
Arsenic	**0.96**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:34	7440-38-2	
Barium	**14.9**	ug/L	0.30	0.15	1	07/22/08 16:27	07/23/08 15:34	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:34	7440-41-7	
Boron	**56.1**	ug/L	2.0	1.0	1	07/22/08 16:27	07/23/08 15:34	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7440-43-9	
Calcium	**23400**	ug/L	100	50.0	5	07/22/08 16:27	07/23/08 13:41	7440-70-2	
Chromium	**1.1**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:34	7440-47-3	
Cobalt	**1.5**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7440-48-4	
Copper	**1.4**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:34	7440-50-8	
Iron	**1380**	ug/L	50.0	25.0	1	07/22/08 16:27	07/23/08 15:34	7439-89-6	
Lead	**0.22**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7439-92-1	
Lithium	**1.3**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7439-93-2	
Magnesium	**11400**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:34	7439-95-4	
Manganese	**63.4**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:34	7439-96-5	
Molybdenum	**2.2**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7439-98-7	
Nickel	**22.7**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7440-02-0	
Potassium	**4820**	ug/L	20.0	10.0	1	07/22/08 16:27	07/23/08 15:34	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:34	7782-49-2	
Silver	**0.15J**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:34	7440-22-4	
Sodium	**11000**	ug/L	250	125	5	07/22/08 16:27	07/23/08 13:41	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7440-28-0	
Total Hardness by 2340B	**105000**	ug/L	105	52.5	5	07/22/08 16:27	07/23/08 13:41		
Vanadium	**0.57**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:34	7440-62-2	
Zinc	**37.9**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:34	7440-66-6	

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ANALYTICAL RESULTS

Project: 406200 FOTH
Pace Project No.: 1076905

Sample: HMP-009 **Lab ID: 406200003** Collected: 07/09/08 11:45 Received: 07/10/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**20.2**	ug/L	4.0	2.0	1	07/22/08 16:27	07/23/08 15:39	7429-90-5	
Antimony	**8.9**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7440-36-0	
Arsenic	**0.59**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:39	7440-38-2	
Barium	**8.9**	ug/L	0.30	0.15	1	07/22/08 16:27	07/23/08 15:39	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:39	7440-41-7	
Boron	**79.2**	ug/L	2.0	1.0	1	07/22/08 16:27	07/23/08 15:39	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7440-43-9	
Calcium	**49200**	ug/L	100	50.0	5	07/22/08 16:27	07/23/08 13:46	7440-70-2	
Chromium	**0.55**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:39	7440-47-3	
Cobalt	**2.7**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7440-48-4	
Copper	**3.4**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:39	7440-50-8	
Iron	**87.7**	ug/L	50.0	25.0	1	07/22/08 16:27	07/23/08 15:39	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7439-92-1	
Lithium	**3.0**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7439-93-2	
Magnesium	**23700**	ug/L	25.0	12.5	5	07/22/08 16:27	07/23/08 13:46	7439-95-4	
Manganese	**24.5**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:39	7439-96-5	
Molybdenum	**11.4**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7439-98-7	
Nickel	**6.8**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7440-02-0	
Potassium	**8170**	ug/L	20.0	10.0	1	07/22/08 16:27	07/23/08 15:39	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:39	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:39	7440-22-4	
Sodium	**13300**	ug/L	250	125	5	07/22/08 16:27	07/23/08 13:46	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7440-28-0	
Total Hardness by 2340B	**221000**	ug/L	125	62.5	5	07/22/08 16:27	07/23/08 13:46		
Vanadium	**0.18**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:39	7440-62-2	
Zinc	**232**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:39	7440-66-6	

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Pace Analytical Services, Inc.
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(612)607-1700

ANALYTICAL RESULTS

Project: 406200 FOTH
Pace Project No.: 1076905

Sample: DUP-005 **Lab ID: 406200004** Collected: 07/09/08 00:00 Received: 07/10/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**12.0**	ug/L	4.0	2.0	1	07/22/08 16:27	07/23/08 15:43	7429-90-5	
Antimony	**9.0**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7440-36-0	
Arsenic	**0.56**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:43	7440-38-2	
Barium	**8.2**	ug/L	0.30	0.15	1	07/22/08 16:27	07/23/08 15:43	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:43	7440-41-7	
Boron	**78.0**	ug/L	2.0	1.0	1	07/22/08 16:27	07/23/08 15:43	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7440-43-9	
Calcium	**50000**	ug/L	100	50.0	5	07/22/08 16:27	07/23/08 13:50	7440-70-2	
Chromium	**0.63**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:43	7440-47-3	
Cobalt	**2.7**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7440-48-4	
Copper	**2.6**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:43	7440-50-8	
Iron	**63.8**	ug/L	50.0	25.0	1	07/22/08 16:27	07/23/08 15:43	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7439-92-1	
Lithium	**2.9**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7439-93-2	
Magnesium	**24000**	ug/L	25.0	12.5	5	07/22/08 16:27	07/23/08 13:50	7439-95-4	
Manganese	**20.7**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:43	7439-96-5	
Molybdenum	**11.6**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7439-98-7	
Nickel	**5.7**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7440-02-0	
Potassium	**8130**	ug/L	20.0	10.0	1	07/22/08 16:27	07/23/08 15:43	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:43	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:43	7440-22-4	
Sodium	**12500**	ug/L	250	125	5	07/22/08 16:27	07/23/08 13:50	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7440-28-0	
Total Hardness by 2340B	**224000**	ug/L	125	62.5	5	07/22/08 16:27	07/23/08 13:50		
Vanadium	**0.16**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:43	7440-62-2	
Zinc	**3.2J**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:43	7440-66-6	

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ANALYTICAL RESULTS

Project: 406200 FOTH
Pace Project No.: 1076905

Sample: WLD-001 **Lab ID: 406200005** Collected: 07/09/08 13:15 Received: 07/10/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**10.5**	ug/L	4.0	2.0	1	07/22/08 16:27	07/23/08 15:48	7429-90-5	
Antimony	**0.055J**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7440-36-0	
Arsenic	**2.4**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:48	7440-38-2	
Barium	**8.2**	ug/L	0.30	0.15	1	07/22/08 16:27	07/23/08 15:48	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:48	7440-41-7	
Boron	**56.6**	ug/L	2.0	1.0	1	07/22/08 16:27	07/23/08 15:48	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7440-43-9	
Calcium	**21500**	ug/L	20.0	10.0	1	07/22/08 16:27	07/23/08 15:48	7440-70-2	
Chromium	**<0.25**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:48	7440-47-3	
Cobalt	**0.23**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7440-48-4	
Copper	**0.13J**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:48	7440-50-8	
Iron	**3330**	ug/L	50.0	25.0	1	07/22/08 16:27	07/23/08 15:48	7439-89-6	
Lead	**0.17**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7439-92-1	
Lithium	**2.4**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7439-93-2	
Magnesium	**10100**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:48	7439-95-4	
Manganese	**370**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:48	7439-96-5	
Molybdenum	**0.50**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7439-98-7	
Nickel	**0.34**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7440-02-0	
Potassium	**2760**	ug/L	20.0	10.0	1	07/22/08 16:27	07/23/08 15:48	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:48	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:48	7440-22-4	
Sodium	**2080**	ug/L	50.0	25.0	1	07/22/08 16:27	07/23/08 15:48	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7440-28-0	
Total Hardness by 2340B	**95400**	ug/L	25.0	12.5	1	07/22/08 16:27	07/23/08 15:48		
Vanadium	**0.12**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:48	7440-62-2	
Zinc	**<2.5**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:48	7440-66-6	

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ANALYTICAL RESULTS

Project: 406200 FOTH
Pace Project No.: 1076905

Sample: HMP-007 **Lab ID: 406200006** Collected: 07/09/08 13:45 Received: 07/10/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**49.0**	ug/L	4.0	2.0	1	07/22/08 16:27	07/23/08 15:53	7429-90-5	
Antimony	**0.064J**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7440-36-0	
Arsenic	**5.0**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:53	7440-38-2	
Barium	**38.5**	ug/L	0.30	0.15	1	07/22/08 16:27	07/23/08 15:53	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:53	7440-41-7	
Boron	**27.8**	ug/L	2.0	1.0	1	07/22/08 16:27	07/23/08 15:53	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7440-43-9	
Calcium	**14000**	ug/L	20.0	10.0	1	07/22/08 16:27	07/23/08 15:53	7440-70-2	
Chromium	**1.2**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:53	7440-47-3	
Cobalt	**1.2**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7440-48-4	
Copper	**0.56**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:53	7440-50-8	
Iron	**17000**	ug/L	50.0	25.0	1	07/22/08 16:27	07/23/08 15:53	7439-89-6	
Lead	**0.16**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7439-92-1	
Lithium	**0.17**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7439-93-2	
Magnesium	**5350**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:53	7439-95-4	
Manganese	**1820**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:53	7439-96-5	
Molybdenum	**0.54**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7439-98-7	
Nickel	**1.2**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7440-02-0	
Potassium	**2150**	ug/L	20.0	10.0	1	07/22/08 16:27	07/23/08 15:53	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:53	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:53	7440-22-4	
Sodium	**22300**	ug/L	250	125	5	07/22/08 16:27	07/23/08 14:00	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7440-28-0	
Total Hardness by 2340B	**56900**	ug/L	25.0	12.5	1	07/22/08 16:27	07/23/08 15:53		
Vanadium	**1.2**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:53	7440-62-2	
Zinc	**2.8J**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:53	7440-66-6	

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ANALYTICAL RESULTS

Project: 406200 FOTH
Pace Project No.: 1076905

Sample: HMP-005 **Lab ID: 406200007** Collected: 07/09/08 14:15 Received: 07/10/08 00:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3020								
Aluminum	**3.2J**	ug/L	4.0	2.0	1	07/22/08 16:27	07/23/08 15:57	7429-90-5	
Antimony	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7440-36-0	
Arsenic	**10.6**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:57	7440-38-2	
Barium	**38.6**	ug/L	0.30	0.15	1	07/22/08 16:27	07/23/08 15:57	7440-39-3	
Beryllium	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:57	7440-41-7	
Boron	**63.2**	ug/L	2.0	1.0	1	07/22/08 16:27	07/23/08 15:57	7440-42-8	
Cadmium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7440-43-9	
Calcium	**47700**	ug/L	100	50.0	5	07/22/08 16:27	07/23/08 14:04	7440-70-2	
Chromium	**0.40J**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:57	7440-47-3	
Cobalt	**3.7**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7440-48-4	
Copper	**0.32**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:57	7440-50-8	
Iron	**7000**	ug/L	50.0	25.0	1	07/22/08 16:27	07/23/08 15:57	7439-89-6	
Lead	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7439-92-1	
Lithium	**2.2**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7439-93-2	
Magnesium	**23300**	ug/L	25.0	12.5	5	07/22/08 16:27	07/23/08 14:04	7439-95-4	
Manganese	**1440**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:57	7439-96-5	
Molybdenum	**1.0**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7439-98-7	
Nickel	**8.6**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7440-02-0	
Potassium	**4640**	ug/L	20.0	10.0	1	07/22/08 16:27	07/23/08 15:57	7440-09-7	
Selenium	**<0.25**	ug/L	0.50	0.25	1	07/22/08 16:27	07/23/08 15:57	7782-49-2	
Silver	**<0.10**	ug/L	0.20	0.10	1	07/22/08 16:27	07/23/08 15:57	7440-22-4	
Sodium	**7000**	ug/L	250	125	5	07/22/08 16:27	07/23/08 14:04	7440-23-5	
Thallium	**<0.050**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7440-28-0	
Total Hardness by 2340B	**215000**	ug/L	125	62.5	5	07/22/08 16:27	07/23/08 14:04		
Vanadium	**0.30**	ug/L	0.10	0.050	1	07/22/08 16:27	07/23/08 15:57	7440-62-2	
Zinc	**43.1**	ug/L	5.0	2.5	1	07/22/08 16:27	07/23/08 15:57	7440-66-6	

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QUALITY CONTROL DATA

Project: 406200 FOTH
Pace Project No.: 1076905

QC Batch: MPRP/12722 Analysis Method: EPA 6020
QC Batch Method: EPA 3020 Analysis Description: 6020 MET
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

METHOD BLANK: 503403
Associated Lab Samples: 406200001, 406200002, 406200003, 406200004, 406200005, 406200006, 406200007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Aluminum	ug/L	<2.0	4.0	
Antimony	ug/L	<0.050	0.10	
Arsenic	ug/L	<0.10	0.20	
Barium	ug/L	<0.15	0.30	
Beryllium	ug/L	<0.10	0.20	
Boron	ug/L	<1.0	2.0	
Cadmium	ug/L	<0.050	0.10	
Calcium	ug/L	<10.0	20.0	
Chromium	ug/L	<0.25	0.50	
Cobalt	ug/L	<0.050	0.10	
Copper	ug/L	<0.10	0.20	
Iron	ug/L	<25.0	50.0	
Lead	ug/L	<0.050	0.10	
Lithium	ug/L	<0.050	0.10	
Magnesium	ug/L	<2.5	5.0	
Manganese	ug/L	<0.25	0.50	
Molybdenum	ug/L	<0.050	0.10	
Nickel	ug/L	<0.050	0.10	
Potassium	ug/L	<10.0	20.0	
Selenium	ug/L	<0.25	0.50	
Silver	ug/L	<0.10	0.20	
Sodium	ug/L	<25.0	50.0	
Thallium	ug/L	<0.050	0.10	
Total Hardness by 2340B	ug/L	23.8J	25.0	
Vanadium	ug/L	<0.050	0.10	
Zinc	ug/L	<2.5	5.0	

LABORATORY CONTROL SAMPLE: 503404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	84.5	106	85-115	
Antimony	ug/L	80	83.4	104	85-115	
Arsenic	ug/L	80	80.7	101	85-115	
Barium	ug/L	80	80.2	100	85-115	
Beryllium	ug/L	80	82.2	103	85-115	
Boron	ug/L	80	85.9	107	85-115	
Cadmium	ug/L	80	81.3	102	85-115	
Calcium	ug/L	1000	1060	106	85-115	
Chromium	ug/L	80	81.7	102	85-115	
Cobalt	ug/L	80	81.7	102	85-115	
Copper	ug/L	80	85.1	106	85-115	

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QUALITY CONTROL DATA

Project: 406200 FOTH
Pace Project No.: 1076905

LABORATORY CONTROL SAMPLE: 503404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1000	1030	103	85-115	
Lead	ug/L	80	81.1	101	85-115	
Lithium	ug/L	80	84.4	106	85-115	
Magnesium	ug/L	1000	1050	105	85-115	
Manganese	ug/L	80	80.3	100	85-115	
Molybdenum	ug/L	80	81.5	102	85-115	
Nickel	ug/L	80	84.7	106	85-115	
Potassium	ug/L	1000	1040	104	85-115	
Selenium	ug/L	160	159	99	85-115	
Silver	ug/L	80	85.4	107	85-115	
Sodium	ug/L	1000	1020	102	85-115	
Thallium	ug/L	80	78.6	98	85-115	
Total Hardness by 2340B	ug/L		6980			
Vanadium	ug/L	80	80.1	100	85-115	
Zinc	ug/L	80	82.4	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 503405 503406

Parameter	Units	406200001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	23.4	80	80	85.8	87.9	78	81	70-130	3	20	
Antimony	ug/L	<0.25	80	80	82.1	85.1	103	106	70-130	4	20	
Arsenic	ug/L	<0.50	80	80	81.3	83.4	102	104	70-130	3	20	
Barium	ug/L	<0.75	80	80	78.4	82.3	97	102	70-130	5	20	
Beryllium	ug/L	<0.50	80	80	79.9	81.6	100	102	70-130	2	20	
Boron	ug/L	27.9	80	80	89.5	88.1	77	75	70-130	2	20	
Cadmium	ug/L	<0.25	80	80	81.2	84.0	102	105	70-130	3	20	
Calcium	ug/L	247	1000	1000	1010	1080	76	83	70-130	7	20	
Chromium	ug/L	2.7	80	80	81.5	84.8	99	103	70-130	4	20	
Cobalt	ug/L	<0.25	80	80	81.0	84.6	101	106	70-130	4	20	
Copper	ug/L	4.6	80	80	86.8	90.2	103	107	70-130	4	20	
Iron	ug/L	135J	1000	1000	1040	1080	90	95	70-130	4	20	
Lead	ug/L	<0.25	80	80	80.5	83.1	101	104	70-130	3	20	
Lithium	ug/L	<0.25	80	80	81.4	83.5	102	104	70-130	3	20	
Magnesium	ug/L	62.8	1000	1000	1030	1090	96	103	70-130	6	20	
Manganese	ug/L	11.4	80	80	81.9	85.2	88	92	70-130	4	20	
Molybdenum	ug/L	<0.25	80	80	80.7	84.4	101	105	70-130	5	20	
Nickel	ug/L	0.58	80	80	83.9	89.1	104	111	70-130	6	20	
Potassium	ug/L	94.3J	1000	1000	1060	1090	97	100	70-130	3	20	
Selenium	ug/L	<1.2	160	160	157	165	98	103	70-130	5	20	
Silver	ug/L	<0.50	80	80	81.1	87.9	101	110	70-130	8	20	
Sodium	ug/L	2630	1000	1000	1550	1610	-108	-102	70-130	4	20	M0
Thallium	ug/L	<0.25	80	80	77.9	80.6	97	101	70-130	3	20	
Total Hardness by 2340B	ug/L	876			6740	7200				7	20	
Vanadium	ug/L	0.26J	80	80	80.2	83.4	100	104	70-130	4	20	
Zinc	ug/L	28.6	80	80	87.0	91.2	73	78	70-130	5	20	

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QUALIFIERS

Project: 406200 FOTH
Pace Project No.: 1076905

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 406200 FOTH
Pace Project No.: 1076905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
406200001	**FBK-005**	EPA 3020	MPRP/12722	EPA 6020	ICPM/4998
406200002	**HMP-004**	EPA 3020	MPRP/12722	EPA 6020	ICPM/4998
406200003	**HMP-009**	EPA 3020	MPRP/12722	EPA 6020	ICPM/4998
406200004	**DUP-005**	EPA 3020	MPRP/12722	EPA 6020	ICPM/4998
406200005	**WLD-001**	EPA 3020	MPRP/12722	EPA 6020	ICPM/4998
406200006	**HMP-007**	EPA 3020	MPRP/12722	EPA 6020	ICPM/4998
406200007	**HMP-005**	EPA 3020	MPRP/12722	EPA 6020	ICPM/4998

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Greensburg, PA 15601
Phone: 724.850.5600
Fax: 724.850.5601

July 23, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Water Characterization
406200 Foth & Van Dyke
Pace Project No. 08-2945

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received on July 14, 2008 and logged in for analysis on July 15, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-2945
CLIENT: 406200 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0807-0594	FBK-005 (406200001)	0807-0595	HMP-004 (406200002)
0807-0596	HMP-009 (406200003)	0807-0597	DUP-005 (406200004)
0807-0598	WLD-001 (406200005)	0807-0599	HMP-007 (406200006)
0807-0600	HMP-005 (406200007)		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-2945
Water Characterization; 406200 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0594	FBK-005 (406200001)	(7/9/08)	07/19/08	0.926 ± 1.22	(2.57)
0807-0595	HMP-004 (406200002)	(7/9/08)	07/19/08	0.976 ± 1.09	(2.02)
0807-0596	HMP-009 (406200003)	(7/9/08)	07/19/08	0.555 ± 0.672	(1.17)
0807-0597	DUP-005 (406200004)	(7/9/08)	07/19/08	1.36 ± 0.697	(0.990)
0807-0598	WLD-001 (406200005)	(7/9/08)	07/19/08	0.161 ± 0.922	(2.45)
0807-0599	HMP-007 (406200006)	(7/9/08)	07/19/08	0.104 ± 0.945	(2.61)
0807-0600	HMP-005 (406200007)	(7/9/08)	07/19/08	1.20 ± 0.658	(0.973)
0807-0601	Method Blank	(7/14/08)	07/19/08	0.493 ± 0.707	(1.50)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0807-0594	FBK-005 (406200001)	(7/9/08)	07/19/08	-0.158 ± 0.961	(2.41)
0807-0595	HMP-004 (406200002)	(7/9/08)	07/19/08	2.78 ± 1.47	(2.47)
0807-0596	HMP-009 (406200003)	(7/9/08)	07/19/08	5.00 ± 1.11	(0.855)
0807-0597	DUP-005 (406200004)	(7/9/08)	07/19/08	5.34 ± 1.16	(0.778)
0807-0598	WLD-001 (406200005)	(7/9/08)	07/19/08	2.06 ± 1.32	(2.45)
0807-0599	HMP-007 (406200006)	(7/9/08)	07/19/08	1.62 ± 1.24	(2.42)
0807-0600	HMP-005 (406200007)	(7/9/08)	07/19/08	3.70 ± 0.872	(0.745)
0807-0601	Method Blank	(7/14/08)	07/19/08	-0.076 ± 0.716	(1.79)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Quality Control Sample Performance Assessment

7/24/08

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Test:	GROSS ALPHA
Analyst:	RMD
Date:	7/21/2008
Worklist:	16783
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.493
M/B Counting Uncertainty:	0.701
MB MDC:	1.498
MB Numerical Performance Indicator:	1.38
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/19/2008	7/19/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	41.590	42.221
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.340	4.519
Numerical Performance Indicator:	-1.65	-1.37
Percent Recovery:	90.61%	91.99%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16783
Duplicate Sample I.D.	LCSD16783
Sample Result (pCi/L, g, F):	41.590
Sample Result Counting Uncertainty (pCi/L, g, F):	4.340
Sample Duplicate Result (pCi/L, g, F):	42.221
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.519
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.197
Duplicate RPD:	1.51%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	7/19/2008
Sample I.D.	0807-0602
Sample MS I.D.	0807-0602MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	91.795
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.398
Sample Result:	0.058
Sample Result Counting Uncertainty (pCi/L, g, F):	0.481
Sample Matrix Spike Result:	82.318
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	6.058
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-2.299
MSD Numerical Performance Indicator:	
MS Percent Recovery:	89.61%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

0085

Quality Control Sample Performance Assessment

7/24/08

Pace Analytical
www.pacelabs.com

Test:	GROSS BETA
Analyst:	RMD
Date:	7/21/2008
Worklist:	16783
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.076
M/B Counting Uncertainty:	0.716
MB MDC:	1.787
MB Numerical Performance Indicator:	-0.21
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	7/19/2008	7/19/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.369	39.369
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.684	19.684
Uncertainty (Calculated):	0.463	0.463
Result (pCi/L, g, F):	17.189	18.880
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.473	2.573
Numerical Performance Indicator:	-1.94	-0.60
Percent Recovery:	87.32%	95.91%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS16783
Duplicate Sample I.D.	LCSD16783
Sample Result (pCi/L, g, F):	17.189
Sample Result Counting Uncertainty (pCi/L, g, F):	2.473
Sample Duplicate Result (pCi/L, g, F):	18.880
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.573
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.929
Duplicate RPD:	9.38%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	7/19/2008
Sample I.D.	0807-0602
Sample MS I.D.	0807-0602MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.369
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.369
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.926
Sample Result:	0.928
Sample Result Counting Uncertainty (pCi/L, g, F):	0.810
Sample Matrix Spike Result:	41.944
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	3.604
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.848
MSD Numerical Performance Indicator:	
MS Percent Recovery:	104.18%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

0365

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 406200 **Workorder Name:** HUMBOLDT MILL **Results Requested** 7/24/2008

Report To

Tod Noltemeyer
Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone (920)469-2436
Fax (920)469-8827

Subcontract To

Pace Analytical Minnesota
1700 Elm Street SE
Suite 200
Minneapolis, MN 55414
Phone (612)607-1700

08-2945

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3	Requested Analysis	LAB USE ONLY
1	FBK-005 0807-0594	7/9/2008 11:00	406200001	Water	1	X	
2	HMP-004 0595	7/9/2008 10:35	406200002	Water	1	X	
3	HMP-009 0596	7/9/2008 11:45	406200003	Water	1	X	
4	DUP-005 0597	7/9/2008 00:00	406200004	Water	1	X	
5	WLD-001 0598	7/9/2008 13:15	406200005	Water	1	X	
6	HMP-007 0599	7/9/2008 13:45	406200006	Water	1	X	
7	HMP-005 0600	7/9/2008 14:15	406200007	Water	1	X	
	MS - 0601						

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2			Pam Arnatec	7/14/08 1000
3				
4				
5				

Table 2
Surface Water Quality Monitoring Program
Parameter List

Parameter	Analytical Method	Method Reporting Limit	Units
Field			
Temperature	Field	NA	°C
Dissolved Oxygen	Field	NA	mg/l
Specific Conductance	Field	NA	umhos/cm
pH	Field	NA	S.U.
Iron (ferrous) (HPL-003 and -004 only)	Field (HACH 8146)	40	ug/l
Oxidation-Reduction potential (ORP)	Field	NA	mV
Ice Thickness (HTDF only)	Field	NA	Feet
Metals			
Aluminum	EPA-6020	50	ug/l
Lithium	EPA-6020	10	ug/l
Antimony	EPA-6020	2.0	ug/l
Arsenic	EPA-6020	1.0	ug/l
Barium	EPA-6020	10	ug/l
Iron	EPA-6020	40	ug/l
Iron (ferric)	CALCULATED	40	ug/l
Beryllium	EPA-6020	1.0	ug/l
Boron	EPA-6020	50	ug/l
Cadmium	EPA-6020	0.40	ug/l
Chromium	EPA-6020	1.0	ug/l
Copper	EPA-6020	2.0	ug/l
Cobalt	EPA-6020	10	ug/l
Lead	EPA-6020	1.0	ug/l
Manganese	EPA-6020	10	ug/l
Molybdenum	EPA-6020	10	ug/l
Nickel	EPA-6020	1.2	ug/l
Selenium	EPA-6020	4.0	ug/l
Silver	EPA-6020	0.4	ug/l
Zinc	EPA-6020	10	ug/l
Mercury (low level)	EPA-1631E	0.25	ng/l
Thallium	EPA-6020	1.2	ug/l
Vanadium	EPA-6020	1.2	ug/l
Anions			
Alkalinity, Bicarbonate	310.2/SM 2320 B	2.0	mg/l
Alkalinity, Carbonate	310.2/SM 2320 B	2.0	mg/l
Chloride	EPA-300.0	1.0	mg/l
Fluoride	EPA-300.0	0.10	mg/l
Nitrate	EPA-300.0	0.05	mg/l

Table 2 *(con't)*

Parameter	Analytical Method	Method Reporting Limit	Units
Nitrite	EPA-300.0	0.05	mg/l
Nitrogen, Ammonia	EPA 350.1	0.50	mg/l
Sulfate	EPA-300.0	1.0	mg/l
Sulfide	SM 4500-S2 E	5.0	mg/l
Cyanide	EPA-335.4	0.062	mg/l
Cations			
Calcium	EPA-6020	0.50	mg/l
Potassium	EPA-6020	0.50	mg/l
Magnesium	EPA-6020	0.50	mg/l
Sodium	EPA-6020	0.50	mg/l
General Chemistry			
Hardness (calc) as CaCO3	EPA-6010/6020	0.002	mg/l
Total Dissolved Solids	EPA-160.1/SM 2540 C	50	mg/l
Total Suspended Solids	EPA 160.2/SM 2540 D	1.0	mg/l
Alkalinity, Total	310.1/SM 2320 B	2.0	mg/l
Chemical oxygen demand	410.4/SM 5220 D	2.0	mg/l
Carbon, Dissolved Organic	415.1/5310 C/9060	1.0	mg/l
Carbon, Total Organic	415.1/5310 C/9060	1.0	mg/l
Turbidity	EPA 180.1	10	mg/l
Gross-Alpha	900	3.0	pCi/L
Gross-Beta	900	4.0	pCi/L

mg/L = milligrams per liter
pCi/L = picocuries per liter
ug/L = micrograms per liter
ng/L = nanograms per liter
°C = degrees Celsius
umhos/cm = micromohs per centimeter
msl = mean sea level
S.U. = standard unit
SM = Standard method
mV = millivolt
NA = not applicable
EPA = Environmental protection agency

Prepared by: JSL
Checked by: SVF

Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson/Foth Project # 406200

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Poly

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:** TBM

Date and Initials of person examining contents: 7/10/08

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. ~~Nitrate~~ Nitrate, Nitrite, turbidity
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Att **Date:** 7/10/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

(X) = 1-1L Poly, 4-250mL HL,2D,1A 4-250mL A,C,G,J, 2-125mL AG

20080708

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	North Jackson & Foth I & E	Report To:	Sharon Felix - Foth I & E	Attention:	JANIS KESY
Address:	2737 South Ridge Road	Copy To:		Company Name:	FOTH I & E
	Green Bay, WI 54304			Address:	2737 South Ridge Rd, Green Bay, WI
Email To:		Purchase Order No.:		Pace Quote Reference:	
Phone:	920-497-2500 Fax:	Project Name:	HUMBOLDT MILL, MI	Pace Project Manager:	Tod Noltemeyer
Requested Due Date/TAT:		Project Number:		Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn NaOH	Y/N Analysis Test: Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	ELHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			N	N	N	N	N	N	N	Y	N				406200
1	FBK-005	001	WT	/			7/9/08	1100		11	4	3	2		1			1	1	1	1	1	2	1	1	1	2				N	(X)
2	HMP-004	002	WT	G			7/9/08	1035	16	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2				N	
3	HMP-009	003	WT	G			7/9/08	1145	14	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2				N	(-)1-250mL (+)1-5
4	DUP-005	004	WT	G			7/9/08	—	--	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2				N	
5	WLD-001	005	WT	G			7/9/08	1315	20	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2				N	
6	HMP-007	006	WT	G			7/9/08	1345	15	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2				N	
7	HMP-005	007	WT	G			7/9/08	1415	11	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2				N	
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	NJC	07/9/08	1700							
	FEDEX	7/10/08	945		7/10/08	945	1	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

FED EX

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CURT SHEFFIELD CHRIS CHAMBLEE RICHARD EAGLE

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 07/09/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

October 2008

Batch No. 409963

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone: 920.469.2436
Fax: 920.469.8827

November 25, 2008

Janis Kesy
Foth & Van Dyke
2737 South Ridge Road
Green Bay, WI 54304

Dear Ms. Kesy:

Enclosed is a report for the analysis of surface water samples and associated QC samples for the Humboldt Mill project (06W003). These samples were received from October 8 to October 22, 2008. The samples were assigned to batch numbers 409963, 4010047, 4010120, 4010516 and 4010576 for laboratory tracking purposes.

A table of the results has also been sent to you via e-mail.

If you have any questions regarding this data please call me at (608) 232-3300.

Sincerely,

for Tod N.

Tod Noltemeyer
Project Manager

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

October 28, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,
for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
409963001	FBK-001	Water	10/07/08 14:35	10/08/08 09:45
409963002	DUP-001	Water	10/07/08 14:35	10/08/08 09:45
409963003	MER-001	Water	10/07/08 12:45	10/08/08 09:45
409963004	MER-002	Water	10/07/08 14:10	10/08/08 09:45
409963005	MER-003	Water	10/07/08 15:30	10/08/08 09:45
409963006	WLD-001	Water	10/07/08 13:40	10/08/08 09:45
409963007	HTP-001	Water	10/07/08 15:00	10/08/08 09:45
409963008	HTP-002	Water	10/07/08 14:20	10/08/08 09:45
409963009	WLD-002	Water	10/07/08 12:00	10/08/08 09:45
409963010	WLD-003	Water	10/07/08 13:00	10/08/08 09:45
409963011	WLD-001SE	Water	10/07/08 16:20	10/08/08 09:45

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
409963001	FBK-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963002	DUP-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963003	MER-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963004	MER-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963005	MER-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963006	WLD-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963007	**HTP-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963008	**HTP-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963009	**WLD-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
409963010	WLD-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
409963011	WLD-001SE	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below. .

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/2397

R1: RPD value was outside control limits.

- DUP (Lab ID: 87734)
  - Total Dissolved Solids
- DUP (Lab ID: 87735)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- HTP-002 (Lab ID: 409963008)
- MER-001 (Lab ID: 409963003)
- WLD-001 (Lab ID: 409963006)
- WLD-002 (Lab ID: 409963009)
- WLD-003 (Lab ID: 409963010)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2500

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 409963002,409963003

M0: Matrix spike recovery was outside laboratory control limits.
- MS (Lab ID: 87064)
  - Nitrate as N
  - Nitrite as N
- MS (Lab ID: 87066)
  - Nitrate as N
  - Nitrite as N
- MSD (Lab ID: 87065)
  - Nitrate as N
  - Nitrite as N
- MSD (Lab ID: 87067)
  - Nitrate as N
  - Nitrite as N

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

QC Batch: WETA/2502

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 409886014,409886032,409963011

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 87120)
  - Nitrate as N
- MS (Lab ID: 87122)
  - Nitrite as N
- MS (Lab ID: 87124)
  - Nitrate as N
- MSD (Lab ID: 87121)
  - Nitrate as N
- MSD (Lab ID: 87123)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2501

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 409963002,409963003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 87085)
  - Sulfate
- MSD (Lab ID: 87086)
  - Sulfate

QC Batch: WETA/2503

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 409886014,409963011

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 87144)
  - Chloride
  - Fluoride
  - Sulfate
- MSD (Lab ID: 87145)
  - Chloride
  - Fluoride
  - Sulfate
- MSD (Lab ID: 87147)
  - Sulfate

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
11 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2602

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010047003,409963010

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 93454)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: FBK-001 **Lab ID: 409963001** Collected: 10/07/08 14:35 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**<0.16**	ng/L	0.50	0.16	1	10/09/08 07:15	10/10/08 11:38	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:01	7429-90-5	
Antimony	**0.30J**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:01	7440-36-0	B
Arsenic	**0.52J**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:01	7440-38-2	B
Barium	**0.71J**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:01	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:01	7440-41-7	
Boron	**11.7**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:01	7440-42-8	B
Cadmium	**0.17J**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:01	7440-43-9	
Calcium	**<62.6**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:01	7440-70-2	
Chromium	**0.80J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:01	7440-47-3	
Cobalt	**0.17J**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:01	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/23/08 08:00	10/24/08 23:36	7440-50-8	
Iron	**22.6J**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:01	7439-89-6	B
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:01	7439-92-1	
Lithium	**0.35J**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:01	7439-93-2	B
Magnesium	**<6.1**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:01	7439-95-4	
Manganese	**0.42J**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:01	7439-96-5	
Molybdenum	**0.92J**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:01	7439-98-7	B
Nickel	**0.30J**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:01	7440-02-0	
Potassium	**<78.3**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:01	7440-09-7	
Selenium	**0.51J**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:01	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:01	7440-22-4	
Sodium	**<51.2**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:01	7440-23-5	
Thallium	**0.65J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:01	7440-28-0	B
Total Hardness	**<0.15**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:01		
Vanadium	**0.64J**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:01	7440-62-2	B
Zinc	**1.7J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:01	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:38		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:38		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		10/10/08 11:18		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.34**	mg/L	1.1	0.34	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: FBK-001 **Lab ID: 409963001** Collected: 10/07/08 14:35 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/09/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/09/08 00:50	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 11:56	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.1J**	mg/L	5.0	1.1	1		10/09/08 00:50	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		10/09/08 00:50	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		10/09/08 00:50	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:07	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:36	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<11.3**	mg/L	52.6	11.3	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		10/25/08 13:54	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.7**	mg/L	2.0	1.4	1		10/23/08 07:42		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: DUP 003 **Lab ID: 4010120003** Collected: 10/09/08 00:00 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/16/08 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.25J**	mg/L	0.40	0.085	1		10/11/08 04:46	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/11/08 12:11	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.2**	mg/L	5.0	1.1	1		10/11/08 04:46	16887-00-6	
Fluoride	**0.24J**	mg/L	0.50	0.059	1		10/11/08 04:46	16984-48-8	
Sulfate	**92.2**	mg/L	20.0	2.6	5		10/13/08 16:29	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 15:09	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/27/08 15:55	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		10/22/08 11:30		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.2**	mg/L	2.0	1.4	1		10/26/08 14:16	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**4.0**	mg/L	2.0	1.4	1		10/26/08 16:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: DUP-001 **Lab ID: 409963002** Collected: 10/07/08 14:35 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.33**	ng/L	0.50	0.16	1	10/09/08 07:15	10/10/08 11:55	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**25.3J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:07	7429-90-5	
Antimony	**0.19J**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:07	7440-36-0	B
Arsenic	**2.5**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:07	7440-38-2	B
Barium	**12.0**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:07	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:07	7440-41-7	
Boron	**16.4**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:07	7440-42-8	B
Cadmium	**0.088J**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:07	7440-43-9	
Calcium	**16900**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:07	7440-70-2	
Chromium	**0.49J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:07	7440-47-3	
Cobalt	**0.44J**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:07	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/23/08 08:00	10/24/08 23:43	7440-50-8	
Iron	**2060**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:07	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:07	7439-92-1	
Lithium	**1.1**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:07	7439-93-2	B
Magnesium	**4510**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:07	7439-95-4	
Manganese	**182**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:07	7439-96-5	
Molybdenum	**0.80J**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:07	7439-98-7	B
Nickel	**0.82J**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:07	7440-02-0	
Potassium	**1130**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:07	7440-09-7	
Selenium	**0.29J**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:07	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:07	7440-22-4	
Sodium	**8440**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:07	7440-23-5	
Thallium	**0.39J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:07	7440-28-0	B
Total Hardness	**60.9**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:07		
Vanadium	**1.0**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:07	7440-62-2	B
Zinc	**2.7J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:07	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**5.8**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**45.6**	mg/L	10.0	3.2	1		10/16/08 13:38		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:38		
Alkalinity, Total as CaCO3	**45.6**	mg/L	10.0	3.2	1		10/16/08 13:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**102**	mg/L	20.0	12.0	1		10/10/08 11:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.4**	mg/L	1.1	0.34	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: DUP-001 **Lab ID: 409963002** Collected: 10/07/08 14:35 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/09/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		10/09/08 01:04	14797-55-8	M0
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 12:10	14797-65-0	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**14.4**	mg/L	5.0	1.1	1		10/09/08 01:04	16887-00-6	
Fluoride	**0.20J**	mg/L	0.50	0.059	1		10/09/08 01:04	16984-48-8	
Sulfate	**10.4**	mg/L	4.0	0.51	1		10/09/08 01:04	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:08	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:37	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**21.9J**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.5**	mg/L	2.0	1.4	1		10/25/08 14:00	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.2**	mg/L	2.0	1.4	1		10/23/08 07:46		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: MER-001 **Lab ID: 409963003** Collected: 10/07/08 12:45 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.14**	ng/L	0.50	0.16	1	10/09/08 07:15	10/10/08 11:59	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**92.1J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 20:37	7429-90-5	
Antimony	**0.32J**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 20:37	7440-36-0	B
Arsenic	**2.6**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 20:37	7440-38-2	B
Barium	**10**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 20:37	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/22/08 20:05	7440-41-7	
Boron	**15.5**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 20:37	7440-42-8	B
Cadmium	**0.20J**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 20:37	7440-43-9	
Calcium	**14200**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 20:37	7440-70-2	
Chromium	**0.78J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 20:37	7440-47-3	
Cobalt	**0.32J**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 20:37	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/23/08 08:00	10/24/08 23:11	7440-50-8	
Iron	**1700**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 20:37	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 20:37	7439-92-1	
Lithium	**1.1**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 20:37	7439-93-2	B
Magnesium	**3780**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 20:37	7439-95-4	
Manganese	**71.9**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 20:37	7439-96-5	
Molybdenum	**1.0**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 20:37	7439-98-7	B
Nickel	**0.88J**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 20:37	7440-02-0	
Potassium	**906**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 20:37	7440-09-7	
Selenium	**0.58J**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 20:37	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 20:37	7440-22-4	
Sodium	**6110**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 20:37	7440-23-5	
Thallium	**0.31J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 20:37	7440-28-0	B
Total Hardness	**51.1**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 20:37		
Vanadium	**1.5**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 20:37	7440-62-2	B
Zinc	**4.2J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 20:37	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.8**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**36.9**	mg/L	10.0	3.2	1		10/16/08 13:38		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:38		
Alkalinity, Total as CaCO3	**36.9**	mg/L	10.0	3.2	1		10/16/08 13:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**98.0**	mg/L	20.0	12.0	1		10/10/08 11:19		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.0J**	mg/L	1.2	0.39	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: MER-001 **Lab ID: 409963003** Collected: 10/07/08 12:45 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/09/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.17J**	mg/L	0.40	0.085	1		10/09/08 02:15	14797-55-8	M0
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 12:53	14797-65-0	H1,M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.8**	mg/L	5.0	1.1	1		10/09/08 02:15	16887-00-6	
Fluoride	**0.20J**	mg/L	0.50	0.059	1		10/09/08 02:15	16984-48-8	
Sulfate	**5.9**	mg/L	4.0	0.51	1		10/09/08 02:15	14808-79-8	M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:09	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:37	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.1**	mg/L	2.0	1.4	1		10/25/08 14:04	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**6.8**	mg/L	2.0	1.4	1		10/23/08 08:01		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: MER-002 **Lab ID: 409963004** Collected: 10/07/08 14:10 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.79**	ng/L	0.50	0.16	1	10/09/08 07:15	10/10/08 12:04	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**24.3J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:13	7429-90-5	
Antimony	**0.082J**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:13	7440-36-0	B
Arsenic	**2.5**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:13	7440-38-2	B
Barium	**11.7**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:13	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:13	7440-41-7	
Boron	**13.5**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:13	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:13	7440-43-9	
Calcium	**16800**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:13	7440-70-2	
Chromium	**0.42J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:13	7440-47-3	
Cobalt	**0.38J**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:13	7440-48-4	
Copper	**0.53J**	ug/L	1.0	0.50	1	10/23/08 08:00	10/24/08 23:49	7440-50-8	
Iron	**2080**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:13	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:13	7439-92-1	
Lithium	**1.1**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:13	7439-93-2	B
Magnesium	**4480**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:13	7439-95-4	
Manganese	**181**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:13	7439-96-5	
Molybdenum	**0.58J**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:13	7439-98-7	B
Nickel	**0.67J**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:13	7440-02-0	
Potassium	**1120**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:13	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:13	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:13	7440-22-4	
Sodium	**8440**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:13	7440-23-5	
Thallium	**0.20J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:13	7440-28-0	B
Total Hardness	**60.4**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:13		
Vanadium	**0.92J**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:13	7440-62-2	B
Zinc	**2.0J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:13	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**6.4**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**45.6**	mg/L	10.0	3.2	1		10/16/08 13:39		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:39		
Alkalinity, Total as CaCO3	**45.6**	mg/L	10.0	3.2	1		10/16/08 13:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**110**	mg/L	20.0	12.0	1		10/10/08 11:20		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.6**	mg/L	1.3	0.41	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: MER-002 **Lab ID: 409963004** Collected: 10/07/08 14:10 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/14/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		10/09/08 02:57	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 13:35	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**14.2**	mg/L	5.0	1.1	1		10/09/08 02:57	16887-00-6	
Fluoride	**0.20J**	mg/L	0.50	0.059	1		10/09/08 02:57	16984-48-8	
Sulfate	**10.5**	mg/L	4.0	0.51	1		10/09/08 02:57	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:10	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:38	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**26.4J**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.9**	mg/L	2.0	1.4	1		10/25/08 14:11	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.6**	mg/L	2.0	1.4	1		10/23/08 08:06		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: MER-003 **Lab ID: 409963005** Collected: 10/07/08 15:30 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.34**	ng/L	0.50	0.16	1	10/09/08 07:15	10/10/08 12:14	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**22.8J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:19	7429-90-5	
Antimony	**0.19J**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:19	7440-36-0	B
Arsenic	**2.1**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:19	7440-38-2	B
Barium	**12.0**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:19	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:19	7440-41-7	
Boron	**12.7**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:19	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:19	7440-43-9	
Calcium	**16700**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:19	7440-70-2	
Chromium	**0.36J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:19	7440-47-3	
Cobalt	**0.33J**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:19	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/23/08 08:00	10/24/08 23:55	7440-50-8	
Iron	**1920**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:19	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:19	7439-92-1	
Lithium	**1.0**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:19	7439-93-2	B
Magnesium	**4540**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:19	7439-95-4	
Manganese	**158**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:19	7439-96-5	
Molybdenum	**0.64J**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:19	7439-98-7	B
Nickel	**0.92J**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:19	7440-02-0	
Potassium	**1160**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:19	7440-09-7	
Selenium	**0.32J**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:19	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:19	7440-22-4	
Sodium	**8550**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:19	7440-23-5	
Thallium	**0.16J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:19	7440-28-0	B
Total Hardness	**60.4**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:19		
Vanadium	**1.0**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:19	7440-62-2	B
Zinc	**1.9J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:19	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**5.4**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**47.7**	mg/L	10.0	3.2	1		10/16/08 13:39		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:39		
Alkalinity, Total as CaCO3	**47.7**	mg/L	10.0	3.2	1		10/16/08 13:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**114**	mg/L	20.0	12.0	1		10/10/08 11:20		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.80J**	mg/L	1.3	0.41	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: MER-003 **Lab ID: 409963005** Collected: 10/07/08 15:30 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/14/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		10/09/08 03:12	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 14:18	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**15.1**	mg/L	5.0	1.1	1		10/09/08 03:12	16887-00-6	
Fluoride	**0.20J**	mg/L	0.50	0.059	1		10/09/08 03:12	16984-48-8	
Sulfate	**11.7**	mg/L	4.0	0.51	1		10/09/08 03:12	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:10	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:39	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**84.4**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**8.5**	mg/L	2.0	1.4	1		10/25/08 14:15	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.0**	mg/L	2.0	1.4	1		10/23/08 08:11		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: WLD-001 **Lab ID: 409963006** Collected: 10/07/08 13:40 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.278J**	ng/L	0.50	0.16	1	10/09/08 07:15	10/10/08 12:19	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**23.1J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:36	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:36	7440-36-0	
Arsenic	**1.2**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:36	7440-38-2	B
Barium	**9.4**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:36	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:36	7440-41-7	
Boron	**55.9**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:36	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:36	7440-43-9	
Calcium	**22600**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:36	7440-70-2	
Chromium	**0.34J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:36	7440-47-3	
Cobalt	**0.16J**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:36	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/23/08 08:00	10/25/08 00:15	7440-50-8	
Iron	**3750**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:36	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:36	7439-92-1	
Lithium	**2.9**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:36	7439-93-2	B
Magnesium	**10000**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:36	7439-95-4	
Manganese	**994**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:36	7439-96-5	
Molybdenum	**0.77J**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:36	7439-98-7	B
Nickel	**0.28J**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:36	7440-02-0	
Potassium	**3320**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:36	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:36	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:36	7440-22-4	
Sodium	**1790**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:36	7440-23-5	
Thallium	**0.11J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:36	7440-28-0	B
Total Hardness	**97.7**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:36		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:36	7440-62-2	
Zinc	**3.3J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:36	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**33.8**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**99.8**	mg/L	10.0	3.2	1		10/16/08 13:39		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:39		
Alkalinity, Total as CaCO3	**99.8**	mg/L	10.0	3.2	1		10/16/08 13:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**124**	mg/L	20.0	12.0	1		10/10/08 11:21		R1
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**7.4**	mg/L	2.0	0.62	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: WLD-001 **Lab ID: 409963006** Collected: 10/07/08 13:40 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/14/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/09/08 03:26	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 14:32	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.6J**	mg/L	5.0	1.1	1		10/09/08 03:26	16887-00-6	
Fluoride	**0.43J**	mg/L	0.50	0.059	1		10/09/08 03:26	16984-48-8	
Sulfate	**3.5J**	mg/L	4.0	0.51	1		10/09/08 03:26	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:14	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:40	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.7**	mg/L	2.0	1.4	1		10/25/08 14:26	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**5.5**	mg/L	2.0	1.4	1		10/23/08 08:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: HTP-001 **Lab ID: 409963007** Collected: 10/07/08 15:00 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.664**	ng/L	0.50	0.16	1	10/10/08 09:15	10/13/08 08:36	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**13.2J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:41	7429-90-5	
Antimony	**0.072J**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:41	7440-36-0	B
Arsenic	**0.74J**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:41	7440-38-2	B
Barium	**2.9**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:41	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:41	7440-41-7	
Boron	**27.8**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:41	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:41	7440-43-9	
Calcium	**11500**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:41	7440-70-2	
Chromium	**2.4**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:41	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:41	7440-48-4	
Copper	**0.79J**	ug/L	1.0	0.50	1	10/23/08 08:00	10/25/08 00:21	7440-50-8	
Iron	**352**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:41	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:41	7439-92-1	
Lithium	**5.5**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:41	7439-93-2	B
Magnesium	**7920**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:41	7439-95-4	
Manganese	**6.5**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:41	7439-96-5	
Molybdenum	**0.98J**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:41	7439-98-7	B
Nickel	**3.0**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:41	7440-02-0	
Potassium	**2740**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:41	7440-09-7	
Selenium	**0.28J**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:41	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:41	7440-22-4	
Sodium	**355**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:41	7440-23-5	
Thallium	**0.083J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:41	7440-28-0	B
Total Hardness	**61.4**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:41		
Vanadium	**0.47J**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:41	7440-62-2	B
Zinc	**2.7J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:41	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.7**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**49.9**	mg/L	10.0	3.2	1		10/16/08 13:40		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:40		
Alkalinity, Total as CaCO3	**49.9**	mg/L	10.0	3.2	1		10/16/08 13:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**70.0**	mg/L	20.0	12.0	1		10/10/08 11:21		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.0**	mg/L	1.8	0.56	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: HTP-001 **Lab ID: 409963007** Collected: 10/07/08 15:00 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/14/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/09/08 03:40	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 14:46	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3J**	mg/L	5.0	1.1	1		10/09/08 03:40	16887-00-6	
Fluoride	**0.29J**	mg/L	0.50	0.059	1		10/09/08 03:40	16984-48-8	
Sulfate	**13.8**	mg/L	4.0	0.51	1		10/09/08 03:40	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:15	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:43	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**33.0J**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.8**	mg/L	2.0	1.4	1		10/25/08 14:30	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**10.2**	mg/L	2.0	1.4	1		10/23/08 08:21		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: HTP-002 **Lab ID: 409963008** Collected: 10/07/08 14:20 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.629**	ng/L	0.50	0.16	1	10/10/08 09:15	10/13/08 08:42	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**20.6J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:47	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:47	7440-36-0	
Arsenic	**0.94J**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:47	7440-38-2	B
Barium	**2.6**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:47	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:47	7440-41-7	
Boron	**29.3**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:47	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:47	7440-43-9	
Calcium	**11800**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:47	7440-70-2	
Chromium	**0.39J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:47	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:47	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/23/08 08:00	10/25/08 00:27	7440-50-8	
Iron	**343**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:47	7439-89-6	
Lead	**1.1**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:47	7439-92-1	
Lithium	**2.5**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:47	7439-93-2	B
Magnesium	**5540**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:47	7439-95-4	
Manganese	**17.2**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:47	7439-96-5	
Molybdenum	**0.78J**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:47	7439-98-7	B
Nickel	**1.3**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:47	7440-02-0	
Potassium	**796**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:47	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:47	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:47	7440-22-4	
Sodium	**856**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:47	7440-23-5	
Thallium	**0.052J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:47	7440-28-0	B
Total Hardness	**52.3**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:47		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:47	7440-62-2	
Zinc	**3.0J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:47	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.1**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**49.9**	mg/L	10.0	3.2	1		10/16/08 13:40		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:40		
Alkalinity, Total as CaCO3	**49.9**	mg/L	10.0	3.2	1		10/16/08 13:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**60.0**	mg/L	20.0	12.0	1		10/10/08 11:22		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.6J**	mg/L	2.0	0.62	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: HTP-002 **Lab ID: 409963008** Collected: 10/07/08 14:20 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/14/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/09/08 03:54	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 15:00	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		10/09/08 03:54	16887-00-6	
Fluoride	**0.30J**	mg/L	0.50	0.059	1		10/09/08 03:54	16984-48-8	
Sulfate	**4.0**	mg/L	4.0	0.51	1		10/09/08 03:54	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:18	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:43	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**24.1J**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.4**	mg/L	2.0	1.4	1		10/25/08 14:34	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.7**	mg/L	2.0	1.4	1		10/23/08 08:28		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: WLD-002 **Lab ID: 409963009** Collected: 10/07/08 12:00 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.552**	ng/L	0.50	0.16	1	10/10/08 09:15	10/13/08 08:48	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**20.4J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:53	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:53	7440-36-0	
Arsenic	**0.23J**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:53	7440-38-2	B
Barium	**9.7**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:53	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:53	7440-41-7	
Boron	**9.2**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:53	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:53	7440-43-9	
Calcium	**6360**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:53	7440-70-2	
Chromium	**0.39J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:53	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:53	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/23/08 08:00	10/25/08 00:33	7440-50-8	
Iron	**2410**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:53	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:53	7439-92-1	
Lithium	**0.32J**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:53	7439-93-2	B
Magnesium	**1270**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:53	7439-95-4	
Manganese	**19.8**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:53	7439-96-5	
Molybdenum	**<0.064**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:53	7439-98-7	
Nickel	**0.17J**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:53	7440-02-0	
Potassium	**235J**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:53	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:53	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:53	7440-22-4	
Sodium	**374**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:53	7440-23-5	
Thallium	**0.050J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:53	7440-28-0	B
Total Hardness	**21.1**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:53		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:53	7440-62-2	
Zinc	**2.6J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:53	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**5.5**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**19.5**	mg/L	10.0	3.2	1		10/16/08 13:41		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:41		
Alkalinity, Total as CaCO3	**19.5**	mg/L	10.0	3.2	1		10/16/08 13:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**28.0**	mg/L	20.0	12.0	1		10/10/08 11:22		R1
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**5.2**	mg/L	4.0	1.2	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: WLD-002 **Lab ID: 409963009** Collected: 10/07/08 12:00 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/14/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/09/08 04:37	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 15:15	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.3J**	mg/L	5.0	1.1	1		10/09/08 04:37	16887-00-6	
Fluoride	**0.20J**	mg/L	0.50	0.059	1		10/09/08 04:37	16984-48-8	
Sulfate	**2.0J**	mg/L	4.0	0.51	1		10/09/08 04:37	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:18	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:45	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**26.4J**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.3**	mg/L	2.0	1.4	1		10/25/08 14:39	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**8.6**	mg/L	2.0	1.4	1		10/23/08 08:59		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: WLD-003 **Lab ID: 409963010** Collected: 10/07/08 13:00 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.780**	ng/L	0.50	0.16	1	10/10/08 09:15	10/13/08 09:59	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**19.0J**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 21:58	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 21:58	7440-36-0	
Arsenic	**0.40J**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:58	7440-38-2	B
Barium	**7.5**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 21:58	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 21:58	7440-41-7	
Boron	**13.4**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 21:58	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 21:58	7440-43-9	
Calcium	**6370**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 21:58	7440-70-2	
Chromium	**0.30J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 21:58	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 21:58	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/23/08 08:00	10/25/08 00:40	7440-50-8	
Iron	**519**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 21:58	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 21:58	7439-92-1	
Lithium	**0.31J**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 21:58	7439-93-2	B
Magnesium	**1440**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 21:58	7439-95-4	
Manganese	**47.7**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 21:58	7439-96-5	
Molybdenum	**<0.064**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 21:58	7439-98-7	
Nickel	**<0.15**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 21:58	7440-02-0	
Potassium	**350**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 21:58	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 21:58	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 21:58	7440-22-4	
Sodium	**680**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 21:58	7440-23-5	
Thallium	**0.045J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 21:58	7440-28-0	B
Total Hardness	**21.8**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 21:58		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 21:58	7440-62-2	
Zinc	**2.6J**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 21:58	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.8**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**13.0**	mg/L	10.0	3.2	1		10/16/08 13:41		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:41		
Alkalinity, Total as CaCO3	**13.0**	mg/L	10.0	3.2	1		10/16/08 13:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**34.0**	mg/L	20.0	12.0	1		10/10/08 11:23		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.6J**	mg/L	4.0	1.2	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: WLD-003 **Lab ID: 409963010** Collected: 10/07/08 13:00 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/14/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/09/08 04:51	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 15:29	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.2J**	mg/L	5.0	1.1	1		10/09/08 04:51	16887-00-6	
Fluoride	**0.21J**	mg/L	0.50	0.059	1		10/09/08 04:51	16984-48-8	
Sulfate	**3.8J**	mg/L	4.0	0.51	1		10/09/08 04:51	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:19	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 14:46	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**30.8J**	mg/L	50.0	10.8	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**10.1**	mg/L	2.0	1.4	1		10/24/08 10:16	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**9.2**	mg/L	2.0	1.4	1		10/23/08 09:04		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: WLD-001SE **Lab ID: 409963011** Collected: 10/07/08 16:20 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.09**	ng/L	0.50	0.16	1	10/10/08 09:15	10/13/08 09:22	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**313**	ug/L	250	4.5	1	10/10/08 07:50	10/10/08 22:04	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/10/08 07:50	10/10/08 22:04	7440-36-0	
Arsenic	**2.6**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 22:04	7440-38-2	B
Barium	**40.3**	ug/L	1.0	0.17	1	10/10/08 07:50	10/10/08 22:04	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 07:50	10/10/08 22:04	7440-41-7	
Boron	**53.4**	ug/L	5.0	1.1	1	10/10/08 07:50	10/10/08 22:04	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 07:50	10/10/08 22:04	7440-43-9	
Calcium	**25500**	ug/L	250	62.6	1	10/10/08 07:50	10/10/08 22:04	7440-70-2	
Chromium	**0.95J**	ug/L	1.0	0.30	1	10/10/08 07:50	10/10/08 22:04	7440-47-3	
Cobalt	**0.56J**	ug/L	1.0	0.077	1	10/10/08 07:50	10/10/08 22:04	7440-48-4	
Copper	**4.0**	ug/L	1.0	0.50	1	10/23/08 08:00	10/25/08 00:46	7440-50-8	
Iron	**18000**	ug/L	250	5.0	1	10/10/08 07:50	10/10/08 22:04	7439-89-6	
Lead	**1.5**	ug/L	1.0	0.50	1	10/10/08 07:50	10/10/08 22:04	7439-92-1	
Lithium	**1.0**	ug/L	1.0	0.13	1	10/10/08 07:50	10/10/08 22:04	7439-93-2	B
Magnesium	**10700**	ug/L	250	6.1	1	10/10/08 07:50	10/10/08 22:04	7439-95-4	
Manganese	**3070**	ug/L	1.0	0.24	1	10/10/08 07:50	10/10/08 22:04	7439-96-5	
Molybdenum	**0.14J**	ug/L	1.0	0.064	1	10/10/08 07:50	10/10/08 22:04	7439-98-7	B
Nickel	**0.71J**	ug/L	1.0	0.15	1	10/10/08 07:50	10/10/08 22:04	7440-02-0	
Potassium	**3030**	ug/L	250	78.3	1	10/10/08 07:50	10/10/08 22:04	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 07:50	10/10/08 22:04	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 07:50	10/10/08 22:04	7440-22-4	
Sodium	**2420**	ug/L	250	51.2	1	10/10/08 07:50	10/10/08 22:04	7440-23-5	
Thallium	**0.034J**	ug/L	1.0	0.019	1	10/10/08 07:50	10/10/08 22:04	7440-28-0	B
Total Hardness	**108**	mg/L	5.0	0.15	1	10/10/08 07:50	10/10/08 22:04		
Vanadium	**1.5**	ug/L	1.0	0.45	1	10/10/08 07:50	10/10/08 22:04	7440-62-2	B
Zinc	**42.6**	ug/L	5.0	1.7	1	10/10/08 07:50	10/10/08 22:04	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**89.8**	NTU	1.0	0.44	1		10/08/08 14:28		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**115**	mg/L	10.0	3.2	1		10/16/08 13:41		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/16/08 13:41		
Alkalinity, Total as CaCO3	**115**	mg/L	10.0	3.2	1		10/16/08 13:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**144**	mg/L	20.0	12.0	1		10/10/08 11:24		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**11.1**	mg/L	2.9	0.89	1		10/10/08 10:16		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Sample: WLD-001SE **Lab ID: 409963011** Collected: 10/07/08 16:20 Received: 10/08/08 09:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/14/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.15J**	mg/L	0.40	0.085	1		10/09/08 05:33	14797-55-8	M0
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/09/08 15:43	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**3.3J**	mg/L	5.0	1.1	1		10/09/08 05:33	16887-00-6	M0
Fluoride	**0.33J**	mg/L	0.50	0.059	1		10/09/08 05:33	16984-48-8	M0
Sulfate	**3.7J**	mg/L	4.0	0.51	1		10/09/08 05:33	14808-79-8	M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:20	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.61J**	mg/L	1.0	0.50	1		10/20/08 14:47	7664-41-7	Z2
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**70.1**	mg/L	52.6	11.3	1		10/09/08 10:06		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**14.4**	mg/L	2.0	1.4	1		10/24/08 10:38	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**13.1**	mg/L	2.0	1.4	1		10/23/08 09:12		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2500 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010

METHOD BLANK: 87062 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	10/08/08 21:31	
Nitrite as N	mg/L	<0.036	0.10	10/09/08 11:28	

LABORATORY CONTROL SAMPLE: 87063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	97	90-110	
Nitrite as N	mg/L	.8	0.76	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87064 87065

Parameter	Units	409963003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.17J	1.6	1.6	1.6	1.6	89	89	90-110	.6	20	M0
Nitrite as N	mg/L	<0.036	.8	.8	0.61	0.58	76	72	90-110	5	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87066 87067

Parameter	Units	409963002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.18J	1.6	1.6	1.6	1.6	89	89	90-110	.6	20	M0
Nitrite as N	mg/L	<0.036	.8	.8	0.59	0.57	74	71	90-110	3	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2501 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010

METHOD BLANK: 87081 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.1	5.0	10/08/08 21:31	
Fluoride	mg/L	<0.059	0.50	10/08/08 21:31	
Sulfate	mg/L	<0.51	4.0	10/08/08 21:31	

LABORATORY CONTROL SAMPLE: 87082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.0	95	90-110	
Fluoride	mg/L	2	2.0	100	90-110	
Sulfate	mg/L	16	15.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87083 87084

Parameter	Units	409963002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.4	20	20	33.8	34.1	97	98	90-110	.6	20	
Fluoride	mg/L	0.20J	2	2	2.1	2.1	94	94	90-110	.5	20	
Sulfate	mg/L	10.4	16	16	25.1	25.4	92	93	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87085 87086

Parameter	Units	409963003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.8	20	20	31.1	31.1	97	97	90-110	.1	20	
Fluoride	mg/L	0.20J	2	2	2.1	2.1	94	94	90-110	.5	20	
Sulfate	mg/L	5.9	16	16	20.0	20.2	88	89	90-110	.7	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2502 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 409963011

METHOD BLANK: 87118 | Matrix: Water
Associated Lab Samples: 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	10/09/08 05:05	
Nitrite as N	mg/L	<0.036	0.10	10/09/08 18:33	

LABORATORY CONTROL SAMPLE: 87119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	97	90-110	
Nitrite as N	mg/L	.8	0.77	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87120 87121

Parameter	Units	409886014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.40 U	1.6	1.6	1.6	1.6	89	89	90-110	0	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87122 87123

Parameter	Units	409886032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrite as N	mg/L	0.10 U	.8	.8	0.58	0.57	72	71	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87124 87125

Parameter	Units	409963011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.15J	1.6	1.6	1.6	1.6	89	90	90-110	1	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2503
QC Batch Method: EPA 300.0
Associated Lab Samples: 409963011

Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions

METHOD BLANK: 87142
Matrix: Water
Associated Lab Samples: 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.1	5.0	10/09/08 05:05	
Fluoride	mg/L	<0.059	0.50	10/09/08 05:05	
Sulfate	mg/L	<0.51	4.0	10/09/08 05:05	

LABORATORY CONTROL SAMPLE: 87143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.2	96	90-110	
Fluoride	mg/L	2	2.0	101	90-110	
Sulfate	mg/L	16	15.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87144 87145

Parameter	Units	409963011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.3J	20	20	20.4	20.5	86	86	90-110	.4	20	M0
Fluoride	mg/L	0.33J	2	2	2.0	2.0	82	82	90-110	0	20	M0
Sulfate	mg/L	3.7J	16	16	17.5	17.6	87	87	90-110	.7	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87146 87147

Parameter	Units	409886014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	129	100	100	229	233	100	104	90-110	2	20	
Fluoride	mg/L	0.50 U	2	2	2.1	2.1	93	94	90-110	.9	20	
Sulfate	mg/L	220	80	80	305	310	106	112	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WET/2388 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 87404 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<0.44	1.0	10/08/08 14:28	

LABORATORY CONTROL SAMPLE: 87405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	525	525	100		

SAMPLE DUPLICATE: 87406

Parameter	Units	409963009 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	5.5	5.6	.4	5	

SAMPLE DUPLICATE: 87407

Parameter	Units	409963011 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	89.8	94.4	5	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2505 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 87526 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	10/09/08 10:06	

LABORATORY CONTROL SAMPLE: 87527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	486	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87528 87529

Parameter	Units	409963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	<11.3	526	526	535	540	101	102	90-110	.9	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87530 87531

Parameter	Units	409963011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	70.1	526	526	601	608	101	102	90-110	1	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: MPRP/1827 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 87565 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<4.5	250	10/10/08 19:50	
Antimony	ug/L	0.13J	1.0	10/10/08 19:50	
Arsenic	ug/L	0.20J	1.0	10/10/08 19:50	
Barium	ug/L	<0.17	1.0	10/10/08 19:50	
Beryllium	ug/L	<0.41	1.0	10/10/08 19:50	
Boron	ug/L	3.3J	5.0	10/10/08 19:50	
Cadmium	ug/L	<0.087	1.0	10/10/08 19:50	
Calcium	ug/L	<62.6	250	10/10/08 19:50	
Chromium	ug/L	<0.30	1.0	10/10/08 19:50	
Cobalt	ug/L	<0.077	1.0	10/10/08 19:50	
Iron	ug/L	9.1J	250	10/10/08 19:50	
Lead	ug/L	<0.50	1.0	10/10/08 19:50	
Lithium	ug/L	0.14J	1.0	10/10/08 19:50	
Magnesium	ug/L	<6.1	250	10/10/08 19:50	
Manganese	ug/L	<0.24	1.0	10/10/08 19:50	
Molybdenum	ug/L	0.23J	1.0	10/10/08 19:50	
Nickel	ug/L	<0.15	1.0	10/10/08 19:50	
Potassium	ug/L	<78.3	250	10/10/08 19:50	
Selenium	ug/L	<0.25	1.0	10/10/08 19:50	
Silver	ug/L	<0.25	0.50	10/10/08 19:50	
Sodium	ug/L	<51.2	250	10/10/08 19:50	
Thallium	ug/L	0.12J	1.0	10/10/08 19:50	
Vanadium	ug/L	0.51J	1.0	10/10/08 19:50	
Zinc	ug/L	3.3J	5.0	10/10/08 19:50	

LABORATORY CONTROL SAMPLE: 87566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5240	105	75-125	
Antimony	ug/L	500	540	108	75-125	
Arsenic	ug/L	500	552	110	75-125	
Barium	ug/L	500	526	105	75-125	
Beryllium	ug/L	500	537	107	75-125	
Boron	ug/L	500	537	107	75-125	
Cadmium	ug/L	500	545	109	75-125	
Calcium	ug/L	5000	5080	102	75-125	
Chromium	ug/L	500	523	105	75-125	
Cobalt	ug/L	500	524	105	75-125	
Iron	ug/L	5000	5250	105	75-125	
Lead	ug/L	500	516	103	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

LABORATORY CONTROL SAMPLE: 87566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	500	568	114	75-125	
Magnesium	ug/L	5000	5270	105	75-125	
Manganese	ug/L	500	521	104	75-125	
Molybdenum	ug/L	500	521	104	75-125	
Nickel	ug/L	500	536	107	75-125	
Potassium	ug/L	5000	5200	104	75-125	
Selenium	ug/L	500	564	113	75-125	
Silver	ug/L	250	262	105	75-125	
Sodium	ug/L	5000	5180	104	75-125	
Thallium	ug/L	500	487	97	75-125	
Vanadium	ug/L	500	517	103	75-125	
Zinc	ug/L	500	536	107	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87567 87568

Parameter	Units	409963003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	92.1J	5000	5000	4900	5060	96	99	75-125	3	20	
Antimony	ug/L	0.32J	500	500	503	514	100	103	75-125	2	20	
Arsenic	ug/L	2.6	500	500	506	524	101	104	75-125	3	20	
Barium	ug/L	10	500	500	495	512	97	100	75-125	3	20	
Beryllium	ug/L	<0.41	500	500	485	505	97	101	75-125	4	20	
Boron	ug/L	15.5	500	500	510	524	99	102	75-125	3	20	
Cadmium	ug/L	0.20J	500	500	504	519	101	104	75-125	3	20	
Calcium	ug/L	14200	5000	5000	18000	18300	77	82	75-125	1	20	
Chromium	ug/L	0.78J	500	500	486	502	97	100	75-125	3	20	
Cobalt	ug/L	0.32J	500	500	482	497	96	99	75-125	3	20	
Iron	ug/L	1700	5000	5000	6550	6700	97	100	75-125	2	20	
Lead	ug/L	<0.50	500	500	474	494	95	99	75-125	4	20	
Lithium	ug/L	1.1	500	500	522	532	104	106	75-125	2	20	
Magnesium	ug/L	3780	5000	5000	8430	8760	93	100	75-125	4	20	
Manganese	ug/L	71.9	500	500	554	569	96	99	75-125	3	20	
Molybdenum	ug/L	1.0	500	500	486	503	97	100	75-125	3	20	
Nickel	ug/L	0.88J	500	500	489	508	98	101	75-125	4	20	
Potassium	ug/L	906	5000	5000	5660	5950	95	101	75-125	5	20	
Selenium	ug/L	0.58J	500	500	514	526	103	105	75-125	2	20	
Silver	ug/L	<0.25	250	250	241	250	96	100	75-125	4	20	
Sodium	ug/L	6110	5000	5000	10600	11100	89	100	75-125	5	20	
Thallium	ug/L	0.31J	500	500	450	471	90	94	75-125	5	20	
Vanadium	ug/L	1.5	500	500	477	498	95	99	75-125	4	20	
Zinc	ug/L	4.2J	500	500	492	509	98	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WET/2396 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 87581 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	10/10/08 10:16	

LABORATORY CONTROL SAMPLE: 87582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	86.6	74.0	85	80-120	

SAMPLE DUPLICATE: 87583

Parameter	Units	409990001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	62.7	65.3	4	10	

SAMPLE DUPLICATE: 87584

Parameter	Units	4010005001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	104	98.0	6	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WET/2397 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 87732 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	10/10/08 11:18	

LABORATORY CONTROL SAMPLE: 87733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	202	206	102	80-120	

SAMPLE DUPLICATE: 87734

Parameter	Units	409963006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	124	110	12	10	R1

SAMPLE DUPLICATE: 87735

Parameter	Units	409963009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	28.0	34.0	19	10	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: CVFS/1258 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006

METHOD BLANK: 87829 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	<0.16	0.50	10/10/08 09:23	

METHOD BLANK: 87830 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	<0.16	0.50	10/10/08 09:28	

METHOD BLANK: 87831 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	<0.16	0.50	10/10/08 09:34	

LABORATORY CONTROL SAMPLE & LCSD: 87832 87833

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.63	5.19	113	104	79-121	8	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87834 87835

Parameter	Units	409919001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	60.3	200	200	269	273	104	106	75-125	1	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87836 87837

Parameter	Units	409969001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	11.4	40	40	54.0	54.1	106	107	75-125	.1	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: CVFS/1260 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 88422 Matrix: Water
Associated Lab Samples: 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	<0.16	0.50	10/13/08 07:26	

METHOD BLANK: 88423 Matrix: Water
Associated Lab Samples: 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.222J	0.50	10/13/08 07:35	

METHOD BLANK: 88424 Matrix: Water
Associated Lab Samples: 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	<0.16	0.50	10/13/08 07:45	

LABORATORY CONTROL SAMPLE & LCSD: 88425 88426

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.00	5.92	100	118	79-121	17	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88427 88428

Parameter	Units	409963011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.09	5	5	6.19	6.44	102	107	75-125	4	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88429 88430

Parameter	Units	409999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	91.4	400	400	508	483	104	98	75-125	5	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2527 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 88607 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0060	0.020	10/14/08 15:03	

LABORATORY CONTROL SAMPLE: 88608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.097	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88609 88610

Parameter	Units	409963007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.099	99	97	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88611 88612

Parameter	Units	4010047002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.099	0.097	99	97	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WET/2417 | Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) | Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 409963001, 409963002, 409963003

METHOD BLANK: 88896 | Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<2.3	5.0	10/09/08 09:00	

LABORATORY CONTROL SAMPLE: 88897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	49.6	49.2	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88898 88899

Parameter	Units	1082024001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	49.6	49.6	46.0	47.6	92	96	80-120	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WET/2418 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 88907 Matrix: Water
Associated Lab Samples: 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<2.3	5.0	10/14/08 09:00	

LABORATORY CONTROL SAMPLE: 88908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	48.8	40.8	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88909 88910

Parameter	Units	409886018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	5.0 U	48.8	48.8	43.6	43.6	89	89	80-120	0	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WET/2441 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 90277 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	10/16/08 13:36	

LABORATORY CONTROL SAMPLE: 90278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	493	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90279 90280

Parameter	Units	409963002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	45.6	500	500	545	540	100	99	80-120	.8	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2546 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 90288 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.86J	1.0	10/20/08 14:33	

LABORATORY CONTROL SAMPLE: 90289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90290 90291

Parameter	Units	409963008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.3	10.3	99	100	90-110	.7	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90292 90293

Parameter	Units	409886028 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.0 U	10	10	10.4	10.1	100	97	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2579 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

METHOD BLANK: 92388 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009, 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	10/23/08 06:29	

LABORATORY CONTROL SAMPLE: 92389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	88.0	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92431 92432

Parameter	Units	1082248005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	ND	100	100	113	107	112	106	80-120	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92433 92434

Parameter	Units	409963008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	7.7	100	100	121	126	113	118	80-120	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2588 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009

METHOD BLANK: 92704 Matrix: Water
Associated Lab Samples: 409963001, 409963002, 409963003, 409963004, 409963005, 409963006, 409963007, 409963008, 409963009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	10/25/08 11:58	

LABORATORY CONTROL SAMPLE: 92705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	93.9	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92706 92707

Parameter	Units	1081641001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.7	100	100	110	110	107	107	80-120	.3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92708 92709

Parameter	Units	409963009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	9.3	100	100	113	117	104	108	80-120	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

QC Batch: WETA/2602 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 409963010, 409963011

METHOD BLANK: 93449 | Matrix: Water
Associated Lab Samples: 409963010, 409963011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	10/24/08 10:02	

LABORATORY CONTROL SAMPLE: 93450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	102	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93451 93452

Parameter	Units	409963010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	10.1	100	100	118	100	108	90	80-120	16	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93453 93454

Parameter	Units	4010047003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	13.2	100	100	123	135	110	121	80-120	9	20	M0

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QUALIFIERS

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the recognized method holding time.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
Z2	Analyte present in the associated method blank above the detection limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409963001	FBK-001	EPA 300.0	WETA/2500		
409963002	DUP-001	EPA 300.0	WETA/2500		
409963003	MER-001	EPA 300.0	WETA/2500		
409963004	MER-002	EPA 300.0	WETA/2500		
409963005	MER-003	EPA 300.0	WETA/2500		
409963006	WLD-001	EPA 300.0	WETA/2500		
409963007	HTP-001	EPA 300.0	WETA/2500		
409963008	HTP-002	EPA 300.0	WETA/2500		
409963009	WLD-002	EPA 300.0	WETA/2500		
409963010	WLD-003	EPA 300.0	WETA/2500		
409963001	FBK-001	EPA 300.0	WETA/2501		
409963002	DUP-001	EPA 300.0	WETA/2501		
409963003	MER-001	EPA 300.0	WETA/2501		
409963004	MER-002	EPA 300.0	WETA/2501		
409963005	MER-003	EPA 300.0	WETA/2501		
409963006	WLD-001	EPA 300.0	WETA/2501		
409963007	HTP-001	EPA 300.0	WETA/2501		
409963008	HTP-002	EPA 300.0	WETA/2501		
409963009	WLD-002	EPA 300.0	WETA/2501		
409963010	WLD-003	EPA 300.0	WETA/2501		
409963011	WLD-001SE	EPA 300.0	WETA/2502		
409963011	WLD-001SE	EPA 300.0	WETA/2503		
409963001	FBK-001	SM 2130B	WET/2388		
409963002	DUP-001	SM 2130B	WET/2388		
409963003	MER-001	SM 2130B	WET/2388		
409963004	MER-002	SM 2130B	WET/2388		
409963005	MER-003	SM 2130B	WET/2388		
409963006	WLD-001	SM 2130B	WET/2388		
409963007	HTP-001	SM 2130B	WET/2388		
409963008	HTP-002	SM 2130B	WET/2388		
409963009	WLD-002	SM 2130B	WET/2388		
409963010	WLD-003	SM 2130B	WET/2388		
409963011	WLD-001SE	SM 2130B	WET/2388		
409963001	FBK-001	EPA 410.4	WETA/2505		
409963002	DUP-001	EPA 410.4	WETA/2505		
409963003	MER-001	EPA 410.4	WETA/2505		
409963004	MER-002	EPA 410.4	WETA/2505		
409963005	MER-003	EPA 410.4	WETA/2505		
409963006	WLD-001	EPA 410.4	WETA/2505		
409963007	HTP-001	EPA 410.4	WETA/2505		
409963008	HTP-002	EPA 410.4	WETA/2505		
409963009	WLD-002	EPA 410.4	WETA/2505		
409963010	WLD-003	EPA 410.4	WETA/2505		
409963011	WLD-001SE	EPA 410.4	WETA/2505		
409963001	FBK-001	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963002	DUP-001	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409963003	MER-001	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963004	MER-002	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963005	MER-003	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963006	WLD-001	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963007	HTP-001	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963008	HTP-002	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963009	WLD-002	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963010	WLD-003	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963011	WLD-001SE	EPA 3010	MPRP/1827	EPA 6020	ICPM/1196
409963001	FBK-001	SM 2540D	WET/2396		
409963002	DUP-001	SM 2540D	WET/2396		
409963003	MER-001	SM 2540D	WET/2396		
409963004	MER-002	SM 2540D	WET/2396		
409963005	MER-003	SM 2540D	WET/2396		
409963006	WLD-001	SM 2540D	WET/2396		
409963007	HTP-001	SM 2540D	WET/2396		
409963008	HTP-002	SM 2540D	WET/2396		
409963009	WLD-002	SM 2540D	WET/2396		
409963010	WLD-003	SM 2540D	WET/2396		
409963011	WLD-001SE	SM 2540D	WET/2396		
409963001	FBK-001	SM 2540C	WET/2397		
409963002	DUP-001	SM 2540C	WET/2397		
409963003	MER-001	SM 2540C	WET/2397		
409963004	MER-002	SM 2540C	WET/2397		
409963005	MER-003	SM 2540C	WET/2397		
409963006	WLD-001	SM 2540C	WET/2397		
409963007	HTP-001	SM 2540C	WET/2397		
409963008	HTP-002	SM 2540C	WET/2397		
409963009	WLD-002	SM 2540C	WET/2397		
409963010	WLD-003	SM 2540C	WET/2397		
409963011	WLD-001SE	SM 2540C	WET/2397		
409963001	FBK-001	EPA 1631E	CVFS/1258	EPA 1631E	CVFS/1259
409963002	DUP-001	EPA 1631E	CVFS/1258	EPA 1631E	CVFS/1259
409963003	MER-001	EPA 1631E	CVFS/1258	EPA 1631E	CVFS/1259
409963004	MER-002	EPA 1631E	CVFS/1258	EPA 1631E	CVFS/1259
409963005	MER-003	EPA 1631E	CVFS/1258	EPA 1631E	CVFS/1259
409963006	WLD-001	EPA 1631E	CVFS/1258	EPA 1631E	CVFS/1259
409963007	HTP-001	EPA 1631E	CVFS/1260	EPA 1631E	CVFS/1261
409963008	HTP-002	EPA 1631E	CVFS/1260	EPA 1631E	CVFS/1261
409963009	WLD-002	EPA 1631E	CVFS/1260	EPA 1631E	CVFS/1261
409963010	WLD-003	EPA 1631E	CVFS/1260	EPA 1631E	CVFS/1261
409963011	WLD-001SE	EPA 1631E	CVFS/1260	EPA 1631E	CVFS/1261
409963001	FBK-001	EPA 335.4	WETA/2527		
409963002	DUP-001	EPA 335.4	WETA/2527		
409963003	MER-001	EPA 335.4	WETA/2527		
409963004	MER-002	EPA 335.4	WETA/2527		

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409963005	MER-003	EPA 335.4	WETA/2527		
409963006	WLD-001	EPA 335.4	WETA/2527		
409963007	HTP-001	EPA 335.4	WETA/2527		
409963008	HTP-002	EPA 335.4	WETA/2527		
409963009	WLD-002	EPA 335.4	WETA/2527		
409963010	WLD-003	EPA 335.4	WETA/2527		
409963011	WLD-001SE	EPA 335.4	WETA/2527		
409963001	FBK-001	SM 4500-S F (2000)	WET/2417		
409963002	DUP-001	SM 4500-S F (2000)	WET/2417		
409963003	MER-001	SM 4500-S F (2000)	WET/2417		
409963004	MER-002	SM 4500-S F (2000)	WET/2418		
409963005	MER-003	SM 4500-S F (2000)	WET/2418		
409963006	WLD-001	SM 4500-S F (2000)	WET/2418		
409963007	HTP-001	SM 4500-S F (2000)	WET/2418		
409963008	HTP-002	SM 4500-S F (2000)	WET/2418		
409963009	WLD-002	SM 4500-S F (2000)	WET/2418		
409963010	WLD-003	SM 4500-S F (2000)	WET/2418		
409963011	WLD-001SE	SM 4500-S F (2000)	WET/2418		
409963001	FBK-001	SM 2320B	WET/2441		
409963002	DUP-001	SM 2320B	WET/2441		
409963003	MER-001	SM 2320B	WET/2441		
409963004	MER-002	SM 2320B	WET/2441		
409963005	MER-003	SM 2320B	WET/2441		
409963006	WLD-001	SM 2320B	WET/2441		
409963007	HTP-001	SM 2320B	WET/2441		
409963008	HTP-002	SM 2320B	WET/2441		
409963009	WLD-002	SM 2320B	WET/2441		
409963010	WLD-003	SM 2320B	WET/2441		
409963011	WLD-001SE	SM 2320B	WET/2441		
409963001	FBK-001	EPA 350.1	WETA/2546		
409963002	DUP-001	EPA 350.1	WETA/2546		
409963003	MER-001	EPA 350.1	WETA/2546		
409963004	MER-002	EPA 350.1	WETA/2546		
409963005	MER-003	EPA 350.1	WETA/2546		
409963006	WLD-001	EPA 350.1	WETA/2546		
409963007	HTP-001	EPA 350.1	WETA/2546		
409963008	HTP-002	EPA 350.1	WETA/2546		
409963009	WLD-002	EPA 350.1	WETA/2546		
409963010	WLD-003	EPA 350.1	WETA/2546		
409963011	WLD-001SE	EPA 350.1	WETA/2546		
409963001	FBK-001	SM 5310C	WETA/2579		
409963002	DUP-001	SM 5310C	WETA/2579		
409963003	MER-001	SM 5310C	WETA/2579		
409963004	MER-002	SM 5310C	WETA/2579		
409963005	MER-003	SM 5310C	WETA/2579		
409963006	WLD-001	SM 5310C	WETA/2579		

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 409963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409963007	HTP-001	SM 5310C	WETA/2579		
409963008	HTP-002	SM 5310C	WETA/2579		
409963009	WLD-002	SM 5310C	WETA/2579		
409963010	WLD-003	SM 5310C	WETA/2579		
409963011	WLD-001SE	SM 5310C	WETA/2579		
409963001	FBK-001	SM 5310C	WETA/2588		
409963002	DUP-001	SM 5310C	WETA/2588		
409963003	MER-001	SM 5310C	WETA/2588		
409963004	MER-002	SM 5310C	WETA/2588		
409963005	MER-003	SM 5310C	WETA/2588		
409963006	WLD-001	SM 5310C	WETA/2588		
409963007	HTP-001	SM 5310C	WETA/2588		
409963008	HTP-002	SM 5310C	WETA/2588		
409963009	WLD-002	SM 5310C	WETA/2588		
409963001	FBK-001	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963002	DUP-001	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963003	MER-001	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963004	MER-002	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963005	MER-003	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963006	WLD-001	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963007	HTP-001	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963008	HTP-002	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963009	WLD-002	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963010	WLD-003	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963011	WLD-001SE	EPA 3010	MPRP/1898	EPA 6020	ICPM/1223
409963010	WLD-003	SM 5310C	WETA/2602		
409963011	WLD-001SE	SM 5310C	WETA/2602		

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Greensburg, PA 15601
Phone: 724.850.5600
Fax: 724.850.5601

October 21, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Water Sample Characterization
409963 Foth & Van Dyke
Pace Project No. 08-4246

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received and logged in for analysis on October 13, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace Analytical Services, Inc. - Pittsburgh Quality Insurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-850-5600.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-4246
CLIENT: 409963 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0810-0650	FBK-001 (409963001)	0810-0651	DUP-001 (409963002)
0810-0652	MER-001 (409963003)	0810-0653	MER-002 (409963004)
0810-0654	MER-003 (409963005)	0810-0655	WLD-001 (409963006)
0810-0656	HTP-001 (409963007)	0810-0657	HTP-002 (409963008)
0810-0658	WLD-002 (409963009)	0810-0659	WLD-003 (409963010)
0810-0660	WLD-001SE (409963011		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-4246
Water Sample Characterization; 409963 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Analyzed	Act ± Unc	(MDC)
0810-0650	FBK-001 (409963001)	(10/7/08)	10/16/08	0.312 ± 0.595	(1.35)
0810-0651	DUP-001 (409963002)	(10/7/08)	10/16/08	1.08 ± 1.06	(1.96)
0810-0652	MER-001 (409963003)	(10/7/08)	10/16/08	-0.038 ± 0.795	(2.21)
0810-0653	MER-002 (409963004)	(10/7/08)	10/16/08	0.189 ± 0.713	(1.83)
0810-0654	MER-003 (409963005)	(10/7/08)	10/16/08	1.31 ± 1.16	(2.10)
0810-0655	WLD-001 (409963006)	(10/7/08)	10/18/08	0.289 ± 0.699	(1.65)
0810-0656	HTP-001 (409963007)	(10/7/08)	10/18/08	0.713 ± 0.620	(1.13)
0810-0657	HTP-002 (409963008)	(10/7/08)	10/18/08	0.960 ± 0.710	(1.27)
0810-0658	WLD-002 (409963009)	(10/7/08)	10/18/08	0.715 ± 0.589	(1.06)
0810-0659	WLD-003 (409963010)	(10/7/08)	10/18/08	1.77 ± 1.18	(1.84)
0810-0660	WLD-001SE (409963011)	(10/7/08)	10/18/08	0.948 ± 0.835	(1.58)
0810-0661	Method Blank	(10/13/08)	10/18/08	0.615 ± 0.670	(1.30)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0810-0650	FBK-001 (409963001)	(10/7/08)	10/16/08	-0.178 ± 0.839	(2.15)
0810-0651	DUP-001 (409963002)	(10/7/08)	10/16/08	1.48 ± 0.975	(1.76)
0810-0652	MER-001 (409963003)	(10/7/08)	10/16/08	1.31 ± 0.919	(1.74)
0810-0653	MER-002 (409963004)	(10/7/08)	10/16/08	0.801 ± 0.881	(1.87)
0810-0654	MER-003 (409963005)	(10/7/08)	10/16/08	1.12 ± 0.915	(1.76)
0810-0655	WLD-001 (409963006)	(10/7/08)	10/18/08	2.31 ± 0.987	(1.51)
0810-0656	HTP-001 (409963007)	(10/7/08)	10/18/08	2.36 ± 0.801	(1.02)
0810-0657	HTP-002 (409963008)	(10/7/08)	10/18/08	1.86 ± 0.755	(1.14)
0810-0658	WLD-002 (409963009)	(10/7/08)	10/18/08	1.21 ± 0.654	(1.14)
0810-0659	WLD-003 (409963010)	(10/7/08)	10/18/08	2.56 ± 1.16	(1.74)
0810-0660	WLD-001SE (409963011)	(10/7/08)	10/18/08	3.99 ± 1.10	(1.14)
0810-0661	Method Blank	(10/13/08)	10/18/08	0.087 ± 0.562	(1.32)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

QA Assessment Spreadsheet
PACE Analytical Services
Waltz Mill Laboratory

Quality Control Sample Performance Assessment

10/22/08

Test:	Gross Alpha
Analyst:	RMD
Date:	10/20/2008
Worklist:	17276
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.615
M/B Counting Uncertainty:	0.661
MB MDC:	1.303
MB Numerical Performance Indicator:	1.82
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	10/18/2008	10/18/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	43.107	43.332
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	3.895	3.839
Numerical Performance Indicator:	-1.15	-1.07
Percent Recovery:	93.92%	94.41%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS17276
Duplicate Sample I.D.	LCSD17276
Sample Result (pCi/L, g, F):	43.107
Sample Result Counting Uncertainty (pCi/L, g, F):	3.895
Sample Duplicate Result (pCi/L, g, F):	43.332
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.839
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.081
Duplicate RPD:	0.52%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	10/7/2008
Sample I.D.	0810-0655
Sample MS I.D.	0810-0655MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	91.795
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.398
Sample Result:	0.289
Sample Result Counting Uncertainty (pCi/L, g, F):	0.697
Sample Matrix Spike Result:	81.674
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	5.798
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-2.566
MSD Numerical Performance Indicator:	
MS Percent Recovery:	88.66%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

QA Assessment Spreadsheet
PACE Analytical Services
Waltz Mill Laboratory

Quality Control Sample Performance Assessment

10/22/08

Test:	Gross Beta
Analyst:	RMD
Date:	10/20/2008
Worklist:	17276
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.087
M/B Counting Uncertainty:	0.562
MB MDC:	1.316
MB Numerical Performance Indicator:	0.30
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	10/18/2008	10/18/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.133	39.133
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.567	19.567
Uncertainty (Calculated):	0.460	0.460
Result (pCi/L, g, F):	19.861	17.497
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.253	2.152
Numerical Performance Indicator:	0.25	-1.84
Percent Recovery:	101.50%	89.42%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS17276
Duplicate Sample I.D.	LCSD17276
Sample Result (pCi/L, g, F):	19.861
Sample Result Counting Uncertainty (pCi/L, g, F):	2.253
Sample Duplicate Result (pCi/L, g, F):	17.497
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.152
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	1.487
Duplicate RPD:	12.66%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	10/7/2008
Sample I.D.	0810-0655
Sample MS I.D.	0810-0655MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.162
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.162
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.921
Sample Result:	2.307
Sample Result Counting Uncertainty (pCi/L, g, F):	0.891
Sample Matrix Spike Result:	41.765
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	3.171
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.170
MSD Numerical Performance Indicator:	
MS Percent Recovery:	100.76%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

Sample Condition Upon Receipt

Client Name: NORTH JACKSON Project # 409963

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.0°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/8 KC

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. NITRATE, NITRITE, TURBIDITY
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10. 1-125mL AS Broken in lab SP->006
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed KC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AA **Date:** 10/8/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Condition Upon Receipt

Client Name: NORTH JACKSON Project # 409963

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1° Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CA 10/14/08

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DTA **Date:** 10/14/08

ote: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR ertification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20081007

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	North Jackson & Foth I & E	Report To:	Sharon Felix - Foth I & E	Attention:	JANIS KESY
Address:	2737 South Ridge Road	Copy To:		Company Name:	FOTH I & E
	Green Bay, WI 54304			Address:	2737 South Ridge Rd, Green Bay, WI
Email To:		Purchase Order No.:		Pace Quote Reference:	
Phone: 920-497-2500	Fax:	Project Name:	HUMBOLDT MILL, MI	Pace Project Manager:	Tod Noltemeyer
Requested Due Date/TAT:	All data FOTH by 7/31/08.	Project Number:		Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn NaOH	Analysis Test (Y/N)	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	HLHG	SULFIDE	DOC	AMMONIA, COD, TOC	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
																				N	N	N	N	N	N	N	Y	N		
1	FBK-001	001	WT	-			10/7/08	1435	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	409963 1-LTR POLY #1 3-500 mL POLY 2-1-500 mL GB, 4-250 mL POLY A,C
2	DUP-001	002	WT	G			10/7/08	-	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
3	MER-001	003	WT	G			10/7/08	1245	9	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
4	MER-002	004	WT	G			10/7/08	1410	9.4	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
5	MER-003	005	WT	G			10/7/08	1530	9.2	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
6	WLD-001	006	WT	G			10/7/08	1340	9.7	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
7	HTP-001	007	WT	G			10/7/08	1500	10	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
8	HTP-002	008	WT	G			10/7/08	1420	11	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
9	WLD-002	009	WT	G			10/7/08	1200	9.2	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
10	WLD-003	010	WT	G			10/7/08	1700	10	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2	N	
11	WLD-001SE	011	WT	G			10/7/08	1020	10	11	4	3	2		1			1		1	1	1	1	2	1	1	1	1		
12																														

2-125m

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	10/7/08	1800	Fed Ex						
	Fed Ex	10/8	945	[signature]	10/8	945	20	Y	Y	Y

FED EX 7905 9691 7578 7911 5747 6045
7905 9691 7567
7901 0495 7640
7911 5747 6023
7911 5747 6001

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CURT SHEFFIELD, ANDY MARACINI, PETE SABEE

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/7/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2008 10 10

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:	Section C Invoice Information:
Company: North Jackson & Foth I & E		Report To: Sharon Felix - Foth I & E	Attention: JANIS KESY
Address: 2737 South Ridge Road		Copy To:	Company Name: FOTH I & E
Green Bay, WI 54304			Address: 2737 South Ridge Rd, Green Bay, WI
Email To:		Purchase Order No.:	Pace Quote Reference:
Phone: 920-497-2500	Fax:	Project Name: HUMBOLDT MILL, MI	Pace Project Manager: Tod Noltemeyer
Requested Due Date/TAT: ~~All data [illegible]~~		Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/GRAB DATE	COLLECTED Composite End/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
										Preservatives								Y/N	N	N	N	N	N	N	N	Y	N					
1	WLD-001 SW (RESAMPLE) 001	WT	G			10/10/08	1300	-	1	0	1	0	0	0	0	0			0	0	0	0	0	0	0	1	0				N	1-125mL
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

409963

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
GOES ~~WITH~~ THE BATCH FROM 10/7	[signature] / NJC	10/13/08	1800							
	fed ex	10/14/08	1830	[signature]	10/14/08	1030	1	Y	N	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

FED Ex 7906 0160 6049

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CURT SHEFFIELD

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/10/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Batch No. 4010047

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

October 28, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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(920)469-2436

SAMPLE SUMMARY

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4010047001	**FBK-002**	Water	10/08/08 11:20	10/09/08 11:45
4010047002	**MBR-001**	Water	10/08/08 11:20	10/09/08 11:45
4010047003	**EBR-001**	Water	10/08/08 12:00	10/09/08 11:45
4010047004	**WBR-003**	Water	10/08/08 13:20	10/09/08 11:45
4010047005	**WBR-002**	Water	10/08/08 14:35	10/09/08 11:45
4010047006	**WBR-001**	Water	10/08/08 15:50	10/09/08 11:45
4010047007	**DUP-002**	Water	10/08/08 00:00	10/09/08 11:45

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4010047001	**FBK-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	MY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
4010047002	**MBR-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	MY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
4010047003	**EBR-001**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	MY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
4010047004	WBR-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	MY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
4010047005	WBR-002	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	MY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
4010047006	WBR-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	MY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
4010047007	**DUP-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	MY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	AMT	1	PASI-G

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/1829

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010047003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 87711)
  - Calcium

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- DUP-002 (Lab ID: 4010047007)
- EBR-001 (Lab ID: 4010047003)
- FBK-002 (Lab ID: 4010047001)
- MBR-001 (Lab ID: 4010047002)
- WBR-001 (Lab ID: 4010047006)
- WBR-002 (Lab ID: 4010047005)
- WBR-003 (Lab ID: 4010047004)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2518

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010047002,4010047003

M0: Matrix spike recovery was outside laboratory control limits.
- MS (Lab ID: 88375)
  - Nitrite as N
- MSD (Lab ID: 88376)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2519

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010047002,4010047003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 88381)
  - Sulfate
- MS (Lab ID: 88383)
  - Chloride
  - Sulfate
- MSD (Lab ID: 88384)
  - Chloride
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2556

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010097019,4010335001

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 90821)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: October 28, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2602

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010047003,409963010

M0: Matrix spike recovery was outside laboratory control limits.

- MSD (Lab ID: 93454)
  - Total Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: FBK-002 **Lab ID: 4010047001** Collected: 10/08/08 11:20 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.175J**	ng/L	0.50	0.16	1	10/14/08 06:00	10/16/08 11:27	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**9.1J**	ug/L	250	4.5	1	10/10/08 10:31	10/20/08 18:07	7429-90-5	B
Antimony	**0.48J**	ug/L	1.0	0.071	1	10/10/08 10:31	10/20/08 18:07	7440-36-0	B
Arsenic	**0.48J**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:07	7440-38-2	
Barium	**0.98J**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:07	7440-39-3	B
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 10:31	10/20/08 18:07	7440-41-7	
Boron	**4.6J**	ug/L	5.0	1.1	1	10/10/08 10:31	10/20/08 18:07	7440-42-8	
Cadmium	**0.24J**	ug/L	1.0	0.087	1	10/10/08 10:31	10/20/08 18:07	7440-43-9	
Calcium	**81.2J**	ug/L	250	62.6	1	10/10/08 10:31	10/20/08 18:07	7440-70-2	
Chromium	**1.0**	ug/L	1.0	0.30	1	10/10/08 10:31	10/20/08 18:07	7440-47-3	
Cobalt	**0.24J**	ug/L	1.0	0.077	1	10/10/08 10:31	10/20/08 18:07	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:07	7440-50-8	
Iron	**17.6J**	ug/L	250	5.0	1	10/10/08 10:31	10/20/08 18:07	7439-89-6	B
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:07	7439-92-1	
Lithium	**0.35J**	ug/L	1.0	0.13	1	10/10/08 10:31	10/20/08 18:07	7439-93-2	
Magnesium	**8.1J**	ug/L	250	6.1	1	10/10/08 10:31	10/20/08 18:07	7439-95-4	
Manganese	**0.56J**	ug/L	1.0	0.24	1	10/10/08 10:31	10/20/08 18:07	7439-96-5	
Molybdenum	**0.60J**	ug/L	1.0	0.064	1	10/10/08 10:31	10/20/08 18:07	7439-98-7	B
Nickel	**0.39J**	ug/L	1.0	0.15	1	10/10/08 10:31	10/20/08 18:07	7440-02-0	
Potassium	**<78.3**	ug/L	250	78.3	1	10/10/08 10:31	10/20/08 18:07	7440-09-7	
Selenium	**0.46J**	ug/L	1.0	0.25	1	10/10/08 10:31	10/20/08 18:07	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 10:31	10/20/08 18:07	7440-22-4	
Sodium	**57.3J**	ug/L	250	51.2	1	10/10/08 10:31	10/20/08 18:07	7440-23-5	
Thallium	**0.44J**	ug/L	1.0	0.019	1	10/10/08 10:31	10/20/08 18:07	7440-28-0	B
Total Hardness	**0.24J**	mg/L	5.0	0.15	1	10/10/08 10:31	10/20/08 18:07		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/10/08 10:31	10/20/08 18:07	7440-62-2	
Zinc	**6.2**	ug/L	5.0	1.7	1	10/10/08 10:31	10/20/08 18:07	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.44J**	NTU	1.0	0.44	1		10/09/08 14:09		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/17/08 13:59		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/17/08 13:59		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		10/17/08 13:59		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**12.0J**	mg/L	20.0	12.0	1		10/13/08 11:05		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/13/08 09:55		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: FBK-002 **Lab ID: 4010047001** Collected: 10/08/08 11:20 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/15/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/21/08 20:14	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/21/08 09:56	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**<1.1**	mg/L	5.0	1.1	1		10/10/08 04:21	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		10/21/08 20:14	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		10/21/08 20:14	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:27	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 15:17	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/14/08 09:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		10/24/08 11:39	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		10/26/08 15:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: MBR-001 **Lab ID: 4010047002** Collected: 10/08/08 11:20 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.48**	ng/L	0.50	0.16	1	10/14/08 06:00	10/16/08 10:27	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**198J**	ug/L	250	4.5	1	10/10/08 10:31	10/22/08 19:41	7429-90-5	
Antimony	**0.12J**	ug/L	1.0	0.071	1	10/10/08 10:31	10/22/08 19:41	7440-36-0	B
Arsenic	**2.2**	ug/L	1.0	0.17	1	10/10/08 10:31	10/22/08 19:41	7440-38-2	
Barium	**40.0**	ug/L	1.0	0.17	1	10/10/08 10:31	10/22/08 19:41	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 10:31	10/22/08 19:41	7440-41-7	
Boron	**9.7**	ug/L	5.0	1.1	1	10/10/08 10:31	10/22/08 19:41	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 10:31	10/22/08 19:41	7440-43-9	
Calcium	**11800**	ug/L	250	62.6	1	10/10/08 10:31	10/22/08 19:41	7440-70-2	
Chromium	**0.68J**	ug/L	1.0	0.30	1	10/10/08 10:31	10/22/08 19:41	7440-47-3	
Cobalt	**1.4**	ug/L	1.0	0.077	1	10/10/08 10:31	10/22/08 19:41	7440-48-4	
Copper	**0.93J**	ug/L	1.0	0.50	1	10/10/08 10:31	10/22/08 19:41	7440-50-8	
Iron	**7230**	ug/L	250	5.0	1	10/10/08 10:31	10/22/08 19:41	7439-89-6	
Lead	**0.90J**	ug/L	1.0	0.50	1	10/10/08 10:31	10/22/08 19:41	7439-92-1	SD
Lithium	**1.2**	ug/L	1.0	0.13	1	10/10/08 10:31	10/22/08 19:41	7439-93-2	
Magnesium	**5040**	ug/L	250	6.1	1	10/10/08 10:31	10/22/08 19:41	7439-95-4	
Manganese	**1980**	ug/L	1.0	0.24	1	10/10/08 10:31	10/22/08 19:41	7439-96-5	
Molybdenum	**0.78J**	ug/L	1.0	0.064	1	10/10/08 10:31	10/22/08 19:41	7439-98-7	B
Nickel	**2.1**	ug/L	1.0	0.15	1	10/10/08 10:31	10/22/08 19:41	7440-02-0	SD
Potassium	**1150**	ug/L	250	78.3	1	10/10/08 10:31	10/22/08 19:41	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 10:31	10/22/08 19:41	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 10:31	10/22/08 19:41	7440-22-4	
Sodium	**13500**	ug/L	250	51.2	1	10/10/08 10:31	10/22/08 19:41	7440-23-5	
Thallium	**0.086J**	ug/L	1.0	0.019	1	10/10/08 10:31	10/22/08 19:41	7440-28-0	B
Total Hardness	**50.3**	mg/L	5.0	0.15	1	10/10/08 10:31	10/22/08 19:41		
Vanadium	**0.71J**	ug/L	1.0	0.45	1	10/10/08 10:31	10/22/08 19:41	7440-62-2	
Zinc	**10.4**	ug/L	5.0	1.7	1	10/10/08 10:31	10/23/08 12:35	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**7.3**	NTU	1.0	0.44	1		10/09/08 14:09		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**32.6**	mg/L	10.0	3.2	1		10/17/08 14:00		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/17/08 14:00		
Alkalinity, Total as CaCO3	**32.6**	mg/L	10.0	3.2	1		10/17/08 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**134**	mg/L	20.0	12.0	1		10/13/08 11:05		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.8**	mg/L	1.2	0.36	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: MBR-001 **Lab ID: 4010047002** Collected: 10/08/08 11:20 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/15/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		10/21/08 20:26	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/21/08 10:11	14797-65-0	H1,M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**28.0**	mg/L	5.0	1.1	1		10/10/08 04:33	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		10/21/08 20:26	16984-48-8	
Sulfate	**3.8J**	mg/L	4.0	0.51	1		10/21/08 20:26	14808-79-8	M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/14/08 15:28	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 15:18	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**39.8J**	mg/L	50.0	10.8	1		10/14/08 09:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**14.7**	mg/L	2.0	1.4	1		10/24/08 11:48	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**15.2**	mg/L	2.0	1.4	1		10/26/08 15:27		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: EBR-001 **Lab ID: 4010047003** Collected: 10/08/08 12:00 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.79**	ng/L	0.50	0.16	1	10/14/08 06:00	10/16/08 10:37	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**48.0J**	ug/L	250	4.5	1	10/10/08 10:31	10/20/08 17:31	7429-90-5	B
Antimony	**0.28J**	ug/L	1.0	0.071	1	10/10/08 10:31	10/20/08 17:31	7440-36-0	B
Arsenic	**1.3**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 17:31	7440-38-2	
Barium	**12.5**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 17:31	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 10:31	10/20/08 17:31	7440-41-7	
Boron	**13.8**	ug/L	5.0	1.1	1	10/10/08 10:31	10/20/08 17:31	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 10:31	10/20/08 17:31	7440-43-9	
Calcium	**23600**	ug/L	2500	626	10	10/10/08 10:31	10/20/08 17:07	7440-70-2	M0
Chromium	**0.45J**	ug/L	1.0	0.30	1	10/10/08 10:31	10/20/08 17:31	7440-47-3	
Cobalt	**0.19J**	ug/L	1.0	0.077	1	10/10/08 10:31	10/20/08 17:31	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 17:31	7440-50-8	
Iron	**1360**	ug/L	250	5.0	1	10/10/08 10:31	10/20/08 17:31	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 17:31	7439-92-1	
Lithium	**1.7**	ug/L	1.0	0.13	1	10/10/08 10:31	10/20/08 17:31	7439-93-2	
Magnesium	**9320**	ug/L	2500	61.0	10	10/10/08 10:31	10/20/08 17:07	7439-95-4	
Manganese	**196**	ug/L	1.0	0.24	1	10/10/08 10:31	10/20/08 17:31	7439-96-5	
Molybdenum	**1.1**	ug/L	1.0	0.064	1	10/10/08 10:31	10/20/08 17:31	7439-98-7	B
Nickel	**1.1**	ug/L	1.0	0.15	1	10/10/08 10:31	10/20/08 17:31	7440-02-0	
Potassium	**2200**	ug/L	250	78.3	1	10/10/08 10:31	10/20/08 17:31	7440-09-7	
Selenium	**0.25J**	ug/L	1.0	0.25	1	10/10/08 10:31	10/20/08 17:31	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 10:31	10/20/08 17:31	7440-22-4	
Sodium	**2480**	ug/L	250	51.2	1	10/10/08 10:31	10/20/08 17:31	7440-23-5	
Thallium	**0.14J**	ug/L	1.0	0.019	1	10/10/08 10:31	10/20/08 17:31	7440-28-0	B
Total Hardness	**97.3**	mg/L	50.0	1.5	10	10/10/08 10:31	10/20/08 17:07		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/10/08 10:31	10/20/08 17:31	7440-62-2	
Zinc	**4.2J**	ug/L	5.0	1.7	1	10/10/08 10:31	10/20/08 17:31	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**3.0**	NTU	1.0	0.44	1		10/09/08 14:09		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**84.6**	mg/L	10.0	3.2	1		10/17/08 14:00		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/17/08 14:00		
Alkalinity, Total as CaCO3	**84.6**	mg/L	10.0	3.2	1		10/17/08 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**112**	mg/L	20.0	12.0	1		10/13/08 11:06		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.6**	mg/L	1.2	0.36	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: EBR-001 **Lab ID: 4010047003** Collected: 10/08/08 12:00 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/15/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/21/08 21:02	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/21/08 10:53	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.8J**	mg/L	5.0	1.1	1		10/10/08 05:09	16887-00-6	M0
Fluoride	**0.29J**	mg/L	0.50	0.059	1		10/21/08 21:02	16984-48-8	
Sulfate	**2.3J**	mg/L	4.0	0.51	1		10/21/08 21:02	14808-79-8	M0
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 14:53	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/20/08 15:24	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**42.0J**	mg/L	50.0	10.8	1		10/14/08 09:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**13.2**	mg/L	2.0	1.4	1		10/24/08 11:54	7440-44-0	M0
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**12.2**	mg/L	2.0	1.4	1		10/26/08 15:31		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: WBR-003 **Lab ID: 4010047004** Collected: 10/08/08 13:20 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.27**	ng/L	0.50	0.16	1	10/14/08 06:00	10/16/08 11:31	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**31.6J**	ug/L	250	4.5	1	10/10/08 10:31	10/20/08 18:24	7429-90-5	B
Antimony	**0.14J**	ug/L	1.0	0.071	1	10/10/08 10:31	10/20/08 18:24	7440-36-0	B
Arsenic	**1.8**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:24	7440-38-2	
Barium	**9.4**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:24	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 10:31	10/20/08 18:24	7440-41-7	
Boron	**13.5**	ug/L	5.0	1.1	1	10/10/08 10:31	10/20/08 18:24	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 10:31	10/20/08 18:24	7440-43-9	
Calcium	**10800**	ug/L	250	62.6	1	10/10/08 10:31	10/20/08 18:24	7440-70-2	
Chromium	**0.38J**	ug/L	1.0	0.30	1	10/10/08 10:31	10/20/08 18:24	7440-47-3	
Cobalt	**0.24J**	ug/L	1.0	0.077	1	10/10/08 10:31	10/20/08 18:24	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:24	7440-50-8	
Iron	**3520**	ug/L	250	5.0	1	10/10/08 10:31	10/20/08 18:24	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:24	7439-92-1	
Lithium	**1.4**	ug/L	1.0	0.13	1	10/10/08 10:31	10/20/08 18:24	7439-93-2	
Magnesium	**4740**	ug/L	250	6.1	1	10/10/08 10:31	10/20/08 18:24	7439-95-4	
Manganese	**264**	ug/L	1.0	0.24	1	10/10/08 10:31	10/20/08 18:24	7439-96-5	
Molybdenum	**0.22J**	ug/L	1.0	0.064	1	10/10/08 10:31	10/20/08 18:24	7439-98-7	B
Nickel	**0.71J**	ug/L	1.0	0.15	1	10/10/08 10:31	10/20/08 18:24	7440-02-0	
Potassium	**1370**	ug/L	250	78.3	1	10/10/08 10:31	10/20/08 18:24	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 10:31	10/20/08 18:24	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 10:31	10/20/08 18:24	7440-22-4	
Sodium	**11600**	ug/L	250	51.2	1	10/10/08 10:31	10/20/08 18:24	7440-23-5	
Thallium	**0.12J**	ug/L	1.0	0.019	1	10/10/08 10:31	10/20/08 18:24	7440-28-0	B
Total Hardness	**46.4**	mg/L	5.0	0.15	1	10/10/08 10:31	10/20/08 18:24		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/10/08 10:31	10/20/08 18:24	7440-62-2	
Zinc	**11.0**	ug/L	5.0	1.7	1	10/10/08 10:31	10/20/08 18:24	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**20.0**	NTU	1.0	0.44	1		10/09/08 14:09		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**32.6**	mg/L	10.0	3.2	1		10/17/08 14:00		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/17/08 14:00		
Alkalinity, Total as CaCO3	**32.6**	mg/L	10.0	3.2	1		10/17/08 14:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**102**	mg/L	20.0	12.0	1		10/13/08 11:06		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.0**	mg/L	2.0	0.62	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: WBR-003 **Lab ID: 4010047004** Collected: 10/08/08 13:20 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/15/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.18J**	mg/L	0.40	0.085	1		10/21/08 22:03	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/21/08 11:36	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**21.4**	mg/L	5.0	1.1	1		10/10/08 05:46	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		10/21/08 22:03	16984-48-8	
Sulfate	**4.6**	mg/L	4.0	0.51	1		10/21/08 22:03	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 14:54	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.50J**	mg/L	1.0	0.50	1		10/20/08 15:24	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**30.8J**	mg/L	50.0	10.8	1		10/14/08 09:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**10.2**	mg/L	2.0	1.4	1		10/24/08 12:26	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**10**	mg/L	2.0	1.4	1		10/26/08 15:35		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: WBR-002 **Lab ID: 4010047005** Collected: 10/08/08 14:35 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.842**	ng/L	0.50	0.16	1	10/14/08 06:00	10/16/08 11:36	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**95.5J**	ug/L	250	4.5	1	10/10/08 10:31	10/20/08 18:30	7429-90-5	B
Antimony	**0.14J**	ug/L	1.0	0.071	1	10/10/08 10:31	10/20/08 18:30	7440-36-0	B
Arsenic	**10.4**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:30	7440-38-2	
Barium	**17.0**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:30	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 10:31	10/20/08 18:30	7440-41-7	
Boron	**15.7**	ug/L	5.0	1.1	1	10/10/08 10:31	10/20/08 18:30	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 10:31	10/20/08 18:30	7440-43-9	
Calcium	**11200**	ug/L	250	62.6	1	10/10/08 10:31	10/20/08 18:30	7440-70-2	
Chromium	**11.4**	ug/L	1.0	0.30	1	10/10/08 10:31	10/20/08 18:30	7440-47-3	
Cobalt	**0.41J**	ug/L	1.0	0.077	1	10/10/08 10:31	10/20/08 18:30	7440-48-4	
Copper	**0.74J**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:30	7440-50-8	
Iron	**14800**	ug/L	250	5.0	1	10/10/08 10:31	10/20/08 18:30	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:30	7439-92-1	
Lithium	**0.77J**	ug/L	1.0	0.13	1	10/10/08 10:31	10/20/08 18:30	7439-93-2	
Magnesium	**5100**	ug/L	250	6.1	1	10/10/08 10:31	10/20/08 18:30	7439-95-4	
Manganese	**872**	ug/L	1.0	0.24	1	10/10/08 10:31	10/20/08 18:30	7439-96-5	
Molybdenum	**0.58J**	ug/L	1.0	0.064	1	10/10/08 10:31	10/20/08 18:30	7439-98-7	B
Nickel	**3.0**	ug/L	1.0	0.15	1	10/10/08 10:31	10/20/08 18:30	7440-02-0	
Potassium	**2450**	ug/L	250	78.3	1	10/10/08 10:31	10/20/08 18:30	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 10:31	10/20/08 18:30	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 10:31	10/20/08 18:30	7440-22-4	
Sodium	**19500**	ug/L	250	51.2	1	10/10/08 10:31	10/20/08 18:30	7440-23-5	
Thallium	**0.099J**	ug/L	1.0	0.019	1	10/10/08 10:31	10/20/08 18:30	7440-28-0	B
Total Hardness	**49.1**	mg/L	5.0	0.15	1	10/10/08 10:31	10/20/08 18:30		
Vanadium	**0.77J**	ug/L	1.0	0.45	1	10/10/08 10:31	10/20/08 18:30	7440-62-2	
Zinc	**15.9**	ug/L	5.0	1.7	1	10/10/08 10:31	10/20/08 18:30	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**27.8**	NTU	1.0	0.44	1		10/09/08 14:09		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**30.4**	mg/L	10.0	3.2	1		10/17/08 14:01		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/17/08 14:01		
Alkalinity, Total as CaCO3	**30.4**	mg/L	10.0	3.2	1		10/17/08 14:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**134**	mg/L	20.0	12.0	1		10/13/08 11:07		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**6.8**	mg/L	4.0	1.2	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: WBR-002 **Lab ID: 4010047005** Collected: 10/08/08 14:35 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/15/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/21/08 22:16	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/21/08 12:18	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**34.6**	mg/L	5.0	1.1	1		10/10/08 05:58	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		10/21/08 22:16	16984-48-8	
Sulfate	**2.8J**	mg/L	4.0	0.51	1		10/21/08 22:16	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 14:55	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.65J**	mg/L	1.0	0.50	1		10/20/08 15:25	7664-41-7	Z2
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**68.8**	mg/L	50.0	10.8	1		10/14/08 09:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**16.3**	mg/L	2.0	1.4	1		10/24/08 12:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**16.1**	mg/L	2.0	1.4	1		10/26/08 15:39		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: WBR-001 **Lab ID: 4010047006** Collected: 10/08/08 15:50 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**12.2**	ng/L	0.50	0.16	1	10/14/08 06:00	10/16/08 11:52	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**1190**	ug/L	250	4.5	1	10/10/08 10:31	10/20/08 18:35	7429-90-5	
Antimony	**0.22J**	ug/L	1.0	0.071	1	10/10/08 10:31	10/20/08 18:35	7440-36-0	B
Arsenic	**8.9**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:35	7440-38-2	
Barium	**25.3**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:35	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 10:31	10/20/08 18:35	7440-41-7	
Boron	**12.6**	ug/L	5.0	1.1	1	10/10/08 10:31	10/20/08 18:35	7440-42-8	
Cadmium	**0.14J**	ug/L	1.0	0.087	1	10/10/08 10:31	10/20/08 18:35	7440-43-9	
Calcium	**6700**	ug/L	250	62.6	1	10/10/08 10:31	10/20/08 18:35	7440-70-2	
Chromium	**2.6**	ug/L	1.0	0.30	1	10/10/08 10:31	10/20/08 18:35	7440-47-3	
Cobalt	**1.5**	ug/L	1.0	0.077	1	10/10/08 10:31	10/20/08 18:35	7440-48-4	
Copper	**3.3**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:35	7440-50-8	
Iron	**11400**	ug/L	250	5.0	1	10/10/08 10:31	10/20/08 18:35	7439-89-6	
Lead	**4.3**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:35	7439-92-1	
Lithium	**1.1**	ug/L	1.0	0.13	1	10/10/08 10:31	10/20/08 18:35	7439-93-2	
Magnesium	**2680**	ug/L	250	6.1	1	10/10/08 10:31	10/20/08 18:35	7439-95-4	
Manganese	**343**	ug/L	1.0	0.24	1	10/10/08 10:31	10/20/08 18:35	7439-96-5	
Molybdenum	**0.31J**	ug/L	1.0	0.064	1	10/10/08 10:31	10/20/08 18:35	7439-98-7	B
Nickel	**2.8**	ug/L	1.0	0.15	1	10/10/08 10:31	10/20/08 18:35	7440-02-0	
Potassium	**2660**	ug/L	250	78.3	1	10/10/08 10:31	10/20/08 18:35	7440-09-7	
Selenium	**0.49J**	ug/L	1.0	0.25	1	10/10/08 10:31	10/20/08 18:35	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 10:31	10/20/08 18:35	7440-22-4	
Sodium	**9030**	ug/L	250	51.2	1	10/10/08 10:31	10/20/08 18:35	7440-23-5	
Thallium	**0.10J**	ug/L	1.0	0.019	1	10/10/08 10:31	10/20/08 18:35	7440-28-0	B
Total Hardness	**27.8**	mg/L	5.0	0.15	1	10/10/08 10:31	10/20/08 18:35		
Vanadium	**4.4**	ug/L	1.0	0.45	1	10/10/08 10:31	10/20/08 18:35	7440-62-2	
Zinc	**15.4**	ug/L	5.0	1.7	1	10/10/08 10:31	10/20/08 18:35	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**37.2**	NTU	1.0	0.44	1		10/09/08 14:09		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**8.7J**	mg/L	10.0	3.2	1		10/17/08 14:01		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/17/08 14:01		
Alkalinity, Total as CaCO3	**8.7J**	mg/L	10.0	3.2	1		10/17/08 14:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**148**	mg/L	20.0	12.0	1		10/13/08 11:07		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**38.0**	mg/L	10.0	3.1	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: WBR-001 **Lab ID: 4010047006** Collected: 10/08/08 15:50 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/15/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/21/08 22:28	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/21/08 12:32	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.9**	mg/L	5.0	1.1	1		10/10/08 06:10	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		10/21/08 22:28	16984-48-8	
Sulfate	**2.3J**	mg/L	4.0	0.51	1		10/21/08 22:28	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 14:56	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.84J**	mg/L	1.0	0.50	1		10/20/08 15:26	7664-41-7	Z2
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**147**	mg/L	50.0	10.8	1		10/14/08 09:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**42.8**	mg/L	2.0	1.4	1		10/24/08 12:39	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**49.6**	mg/L	2.0	1.4	1		10/26/08 15:45		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: DUP-002 **Lab ID: 4010047007** Collected: 10/08/08 00:00 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.29**	ng/L	0.50	0.16	1	10/14/08 06:00	10/16/08 10:41	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**25.0J**	ug/L	250	4.5	1	10/10/08 10:31	10/20/08 18:41	7429-90-5	B
Antimony	**0.13J**	ug/L	1.0	0.071	1	10/10/08 10:31	10/20/08 18:41	7440-36-0	B
Arsenic	**1.7**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:41	7440-38-2	
Barium	**10**	ug/L	1.0	0.17	1	10/10/08 10:31	10/20/08 18:41	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/10/08 10:31	10/20/08 18:41	7440-41-7	
Boron	**13.1**	ug/L	5.0	1.1	1	10/10/08 10:31	10/20/08 18:41	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/10/08 10:31	10/20/08 18:41	7440-43-9	
Calcium	**11000**	ug/L	250	62.6	1	10/10/08 10:31	10/20/08 18:41	7440-70-2	
Chromium	**1.8**	ug/L	1.0	0.30	1	10/10/08 10:31	10/20/08 18:41	7440-47-3	
Cobalt	**0.24J**	ug/L	1.0	0.077	1	10/10/08 10:31	10/20/08 18:41	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:41	7440-50-8	
Iron	**3520**	ug/L	250	5.0	1	10/10/08 10:31	10/20/08 18:41	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/10/08 10:31	10/20/08 18:41	7439-92-1	
Lithium	**1.3**	ug/L	1.0	0.13	1	10/10/08 10:31	10/20/08 18:41	7439-93-2	
Magnesium	**4740**	ug/L	250	6.1	1	10/10/08 10:31	10/20/08 18:41	7439-95-4	
Manganese	**269**	ug/L	1.0	0.24	1	10/10/08 10:31	10/20/08 18:41	7439-96-5	
Molybdenum	**0.19J**	ug/L	1.0	0.064	1	10/10/08 10:31	10/20/08 18:41	7439-98-7	B
Nickel	**0.77J**	ug/L	1.0	0.15	1	10/10/08 10:31	10/20/08 18:41	7440-02-0	
Potassium	**1430**	ug/L	250	78.3	1	10/10/08 10:31	10/20/08 18:41	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/10/08 10:31	10/20/08 18:41	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/10/08 10:31	10/20/08 18:41	7440-22-4	
Sodium	**11500**	ug/L	250	51.2	1	10/10/08 10:31	10/20/08 18:41	7440-23-5	
Thallium	**0.071J**	ug/L	1.0	0.019	1	10/10/08 10:31	10/20/08 18:41	7440-28-0	B
Total Hardness	**46.9**	mg/L	5.0	0.15	1	10/10/08 10:31	10/20/08 18:41		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/10/08 10:31	10/20/08 18:41	7440-62-2	
Zinc	**10.3**	ug/L	5.0	1.7	1	10/10/08 10:31	10/20/08 18:41	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**19.7**	NTU	1.0	0.44	1		10/09/08 14:09		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**30.4**	mg/L	10.0	3.2	1		10/17/08 14:01		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/17/08 14:01		
Alkalinity, Total as CaCO3	**30.4**	mg/L	10.0	3.2	1		10/17/08 14:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**98.0**	mg/L	20.0	12.0	1		10/13/08 11:07		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.0**	mg/L	2.0	0.62	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Sample: DUP-002 **Lab ID: 4010047007** Collected: 10/08/08 00:00 Received: 10/09/08 11:45 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/15/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/10/08 06:47	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/10/08 04:12	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**22.5**	mg/L	5.0	1.1	1		10/21/08 22:40	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		10/21/08 22:40	16984-48-8	
Sulfate	**5.0**	mg/L	4.0	0.51	1		10/21/08 22:40	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 14:57	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**0.68J**	mg/L	1.0	0.50	1		10/20/08 15:26	7664-41-7	Z2
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**46.4J**	mg/L	50.0	10.8	1		10/14/08 09:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**10.1**	mg/L	2.0	1.4	1		10/24/08 12:46	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**10.3**	mg/L	2.0	1.4	1		10/26/08 15:54		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: MPRP/1829 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 87709 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	5.8J	250	10/20/08 16:55	
Antimony	ug/L	0.31J	1.0	10/20/08 16:55	
Arsenic	ug/L	<0.17	1.0	10/20/08 16:55	
Barium	ug/L	0.36J	1.0	10/20/08 16:55	
Beryllium	ug/L	<0.41	1.0	10/20/08 16:55	
Boron	ug/L	<1.1	5.0	10/20/08 16:55	
Cadmium	ug/L	<0.087	1.0	10/20/08 16:55	
Calcium	ug/L	<62.6	250	10/20/08 16:55	
Chromium	ug/L	<0.30	1.0	10/20/08 16:55	
Cobalt	ug/L	<0.077	1.0	10/20/08 16:55	
Copper	ug/L	<0.50	1.0	10/20/08 16:55	
Iron	ug/L	9.1J	250	10/20/08 16:55	
Lead	ug/L	<0.50	1.0	10/20/08 16:55	
Lithium	ug/L	<0.13	1.0	10/20/08 16:55	
Magnesium	ug/L	<6.1	250	10/20/08 16:55	
Manganese	ug/L	<0.24	1.0	10/20/08 16:55	
Molybdenum	ug/L	0.14J	1.0	10/20/08 16:55	
Nickel	ug/L	<0.15	1.0	10/20/08 16:55	
Potassium	ug/L	<78.3	250	10/20/08 16:55	
Selenium	ug/L	<0.25	1.0	10/20/08 16:55	
Silver	ug/L	<0.25	0.50	10/20/08 16:55	
Sodium	ug/L	<51.2	250	10/20/08 16:55	
Thallium	ug/L	0.031J	1.0	10/20/08 16:55	
Vanadium	ug/L	<0.45	1.0	10/20/08 16:55	
Zinc	ug/L	3.4J	5.0	10/20/08 16:55	

LABORATORY CONTROL SAMPLE: 87710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5410	108	75-125	
Antimony	ug/L	500	554	111	75-125	
Arsenic	ug/L	500	555	111	75-125	
Barium	ug/L	500	536	107	75-125	
Beryllium	ug/L	500	515	103	75-125	
Boron	ug/L	500	520	104	75-125	
Cadmium	ug/L	500	552	110	75-125	
Calcium	ug/L	5000	5470	109	75-125	
Chromium	ug/L	500	542	108	75-125	
Cobalt	ug/L	500	528	106	75-125	
Copper	ug/L	500	556	111	75-125	
Iron	ug/L	5000	5480	110	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

LABORATORY CONTROL SAMPLE: 87710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	552	110	75-125	
Lithium	ug/L	500	522	104	75-125	
Magnesium	ug/L	5000	5510	110	75-125	
Manganese	ug/L	500	529	106	75-125	
Molybdenum	ug/L	500	525	105	75-125	
Nickel	ug/L	500	540	108	75-125	
Potassium	ug/L	5000	5650	113	75-125	
Selenium	ug/L	500	538	108	75-125	
Silver	ug/L	250	280	112	75-125	
Sodium	ug/L	5000	5570	111	75-125	
Thallium	ug/L	500	524	105	75-125	
Vanadium	ug/L	500	537	107	75-125	
Zinc	ug/L	500	553	111	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87711 87712

Parameter	Units	4010047003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	48.0J	5000	5000	5380	5420	107	107	75-125	.9	20	
Antimony	ug/L	0.28J	500	500	563	568	113	114	75-125	.9	20	
Arsenic	ug/L	1.3	500	500	554	564	110	113	75-125	2	20	
Barium	ug/L	12.5	500	500	552	558	108	109	75-125	1	20	
Beryllium	ug/L	<0.41	500	500	505	509	101	102	75-125	.9	20	
Boron	ug/L	13.8	500	500	521	529	102	103	75-125	1	20	
Cadmium	ug/L	<0.087	500	500	554	557	111	111	75-125	.7	20	
Calcium	ug/L	23600	5000	5000	27200	28100	72	90	75-125	3	20	M0
Chromium	ug/L	0.45J	500	500	546	554	109	111	75-125	2	20	
Cobalt	ug/L	0.19J	500	500	535	538	107	108	75-125	.5	20	
Copper	ug/L	<0.50	500	500	547	557	109	111	75-125	2	20	
Iron	ug/L	1360	5000	5000	6880	6960	110	112	75-125	1	20	
Lead	ug/L	<0.50	500	500	559	570	112	114	75-125	2	20	
Lithium	ug/L	1.7	500	500	520	523	104	104	75-125	.6	20	
Magnesium	ug/L	9320	5000	5000	15000	15100	114	115	75-125	.3	20	
Manganese	ug/L	196	500	500	735	743	108	109	75-125	1	20	
Molybdenum	ug/L	1.1	500	500	529	538	106	107	75-125	2	20	
Nickel	ug/L	1.1	500	500	536	544	107	109	75-125	2	20	
Potassium	ug/L	2200	5000	5000	7760	7880	111	114	75-125	2	20	
Selenium	ug/L	0.25J	500	500	545	555	109	111	75-125	2	20	
Silver	ug/L	<0.25	250	250	274	276	110	111	75-125	.7	20	
Sodium	ug/L	2480	5000	5000	7940	8100	109	112	75-125	2	20	
Thallium	ug/L	0.14J	500	500	538	541	108	108	75-125	.6	20	
Vanadium	ug/L	<0.45	500	500	541	547	108	109	75-125	1	20	
Zinc	ug/L	4.2J	500	500	557	566	111	112	75-125	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WET/2398 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 87876 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<0.44	1.0	10/09/08 14:09	

LABORATORY CONTROL SAMPLE: 87877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	525	525	100		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WET/2408 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 88328 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	0.40J	1.0	10/13/08 09:55	

LABORATORY CONTROL SAMPLE: 88329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	86.6	78.0	90	80-120	

SAMPLE DUPLICATE: 88330

Parameter	Units	4010047006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	38.0	40.0	5	10	

SAMPLE DUPLICATE: 88331

Parameter	Units	4010106002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	13.3	14.3	7	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2518 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 88373 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	10/21/08 16:47	
Nitrite as N	mg/L	<0.036	0.10	10/21/08 07:06	

LABORATORY CONTROL SAMPLE: 88374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	100	90-110	
Nitrite as N	mg/L	.8	0.76	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88375 88376

Parameter	Units	4010047002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.18J	1.6	1.6	1.6	1.6	91	91	90-110	.6	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.67	0.66	84	82	90-110	2	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88377 88378

Parameter	Units	4010047003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.085	1.6	1.6	1.6	1.6	101	101	90-110	0	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.75	0.74	94	92	90-110	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2519 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 88379 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.1	5.0	10/21/08 16:47	
Fluoride	mg/L	<0.059	0.50	10/21/08 16:47	
Sulfate	mg/L	<0.51	4.0	10/21/08 16:47	

LABORATORY CONTROL SAMPLE: 88380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.0	95	90-110	
Fluoride	mg/L	2	1.9	97	90-110	
Sulfate	mg/L	16	15.6	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88381 88382

Parameter	Units	4010047002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.0	20	20	47.5	47.6	98	98	90-110	.3	20	
Fluoride	mg/L	0.27J	2	2	2.1	2.1	90	92	90-110	1	20	
Sulfate	mg/L	3.8J	16	16	17.9	18.1	88	90	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88383 88384

Parameter	Units	4010047003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.8J	20	20	19.0	19.0	81	81	90-110	.2	20	M0
Fluoride	mg/L	0.29J	2	2	2.1	2.1	92	92	90-110	.9	20	
Sulfate	mg/L	2.3J	16	16	16.2	16.2	87	87	90-110	.3	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WET/2409 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 88435 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	10/13/08 11:04	

LABORATORY CONTROL SAMPLE: 88436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	202	212	105	80-120	

SAMPLE DUPLICATE: 88437

Parameter	Units	4010047001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	12.0J	<12.0		10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2527
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 4010047001, 4010047002

METHOD BLANK: 88607
Matrix: Water
Associated Lab Samples: 4010047001, 4010047002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0060	0.020	10/14/08 15:03	

LABORATORY CONTROL SAMPLE: 88608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.097	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88609 88610

Parameter	Units	409963007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.099	99	97	.90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88611 88612

Parameter	Units	4010047002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.099	0.097	99	97	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2530 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 89028 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	10/14/08 09:45	

LABORATORY CONTROL SAMPLE: 89029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	498	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 89030 89031

Parameter	Units	4010091002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	526	526	554	545	102	100	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 89032 89033

Parameter	Units	4010120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	<11.3	526	526	533	540	100	101	90-110	1	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WET/2424 | Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) | Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 89405 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<2.3	5.0	10/15/08 09:00	

LABORATORY CONTROL SAMPLE: 89406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	48	42.0	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 89407 89408

Parameter	Units	1082248005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	48	48	42.4	40.8	88	84	80-120	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: CVFS/1268 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 90003 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.409J	0.50	10/16/08 09:51	

METHOD BLANK: 90004 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.331J	0.50	10/16/08 09:58	

METHOD BLANK: 90005 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	<0.16	0.50	10/16/08 10:04	

LABORATORY CONTROL SAMPLE & LCSD: 90006 90007

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.09	4.82	102	96	79-121	5	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90008 90009

Parameter	Units	9229692004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	4.90	20	20	22.8	24.2	89	96	75-125	6	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90010 90011

Parameter	Units	9229680001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	45.0	200	200	236	237	96	96	75-125	.5	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2547
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 4010047001, 4010047002

METHOD BLANK: 90297
Matrix: Water
Associated Lab Samples: 4010047001, 4010047002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.73J	1.0	10/20/08 14:56	

LABORATORY CONTROL SAMPLE: 90298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90299 90300

Parameter	Units	4010304002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.2	10	10	10.8	10.9	96	97	90-110	.8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90301 90302

Parameter	Units	4010047002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.3	10.3	100	100	90-110	.03	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WET/2448 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 90649 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	10/17/08 13:57	

LABORATORY CONTROL SAMPLE: 90650

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90651 90652

Parameter	Units	4010047002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	32.6	500	500	525	527	99	99	80-120	.4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2556 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 90816 Matrix: Water
Associated Lab Samples: 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.73J	1.0	10/20/08 15:22	

LABORATORY CONTROL SAMPLE: 90817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90818 90819

Parameter	Units	4010335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.2	10	10	11.3	11.1	101	98	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90820 90821

Parameter	Units	4010097019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.0 U	10	10	10.5	11.9	102	116	90-110	12	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2575 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 92364 Matrix: Water
Associated Lab Samples: 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0060	0.020	10/22/08 14:52	

LABORATORY CONTROL SAMPLE: 92365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.098	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92366 92367

Parameter	Units	4010099005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.036	.6	.6	0.62	0.58	104	96	90-110	8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92368 92369

Parameter	Units	4010225001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.098	101	98	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2602 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 93449 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	10/24/08 10:02	

LABORATORY CONTROL SAMPLE: 93450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	102	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93451 93452

Parameter	Units	409963010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	10.1	100	100	118	100	108	90	80-120	16	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93453 93454

Parameter	Units	4010047003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	13.2	100	100	123	135	110	121	80-120	9	20	M0

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(920)469-2436

QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

QC Batch: WETA/2614 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

METHOD BLANK: 94058 Matrix: Water
Associated Lab Samples: 4010047001, 4010047002, 4010047003, 4010047004, 4010047005, 4010047006, 4010047007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	10/26/08 15:06	

LABORATORY CONTROL SAMPLE: 94059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94060 94061

Parameter	Units	4010047001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<1.4	100	100	105	104	105	104	80-120	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94062 94063

Parameter	Units	4010120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<1.4	100	100	105	105	105	105	80-120	.08	20	

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QUALIFIERS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the recognized method holding time.
M0	Matrix spike recovery was outside laboratory control limits.
SD	The serial dilution and the original analysis did not agree within ±10%. The concentration is estimated due to a suspected chemical or physical interference.
Z2	Analyte present in the associated method blank above the detection limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010047001	FBK-002	EPA 3010	MPRP/1829	EPA 6020	ICPM/1195
4010047002	MBR-001	EPA 3010	MPRP/1829	EPA 6020	ICPM/1195
4010047003	EBR-001	EPA 3010	MPRP/1829	EPA 6020	ICPM/1195
4010047004	WBR-003	EPA 3010	MPRP/1829	EPA 6020	ICPM/1195
4010047005	WBR-002	EPA 3010	MPRP/1829	EPA 6020	ICPM/1195
4010047006	WBR-001	EPA 3010	MPRP/1829	EPA 6020	ICPM/1195
4010047007	DUP-002	EPA 3010	MPRP/1829	EPA 6020	ICPM/1195
4010047001	FBK-002	SM 2130B	WET/2398		
4010047002	MBR-001	SM 2130B	WET/2398		
4010047003	EBR-001	SM 2130B	WET/2398		
4010047004	WBR-003	SM 2130B	WET/2398		
4010047005	WBR-002	SM 2130B	WET/2398		
4010047006	WBR-001	SM 2130B	WET/2398		
4010047007	DUP-002	SM 2130B	WET/2398		
4010047001	FBK-002	SM 2540D	WET/2408		
4010047002	MBR-001	SM 2540D	WET/2408		
4010047003	EBR-001	SM 2540D	WET/2408		
4010047004	WBR-003	SM 2540D	WET/2408		
4010047005	WBR-002	SM 2540D	WET/2408		
4010047006	WBR-001	SM 2540D	WET/2408		
4010047007	DUP-002	SM 2540D	WET/2408		
4010047001	FBK-002	EPA 300.0	WETA/2518		
4010047002	MBR-001	EPA 300.0	WETA/2518		
4010047003	EBR-001	EPA 300.0	WETA/2518		
4010047004	WBR-003	EPA 300.0	WETA/2518		
4010047005	WBR-002	EPA 300.0	WETA/2518		
4010047006	WBR-001	EPA 300.0	WETA/2518		
4010047007	DUP-002	EPA 300.0	WETA/2518		
4010047001	FBK-002	EPA 300.0	WETA/2519		
4010047002	MBR-001	EPA 300.0	WETA/2519		
4010047003	EBR-001	EPA 300.0	WETA/2519		
4010047004	WBR-003	EPA 300.0	WETA/2519		
4010047005	WBR-002	EPA 300.0	WETA/2519		
4010047006	WBR-001	EPA 300.0	WETA/2519		
4010047007	DUP-002	EPA 300.0	WETA/2519		
4010047001	FBK-002	SM 2540C	WET/2409		
4010047002	MBR-001	SM 2540C	WET/2409		
4010047003	EBR-001	SM 2540C	WET/2409		
4010047004	WBR-003	SM 2540C	WET/2409		
4010047005	WBR-002	SM 2540C	WET/2409		
4010047006	WBR-001	SM 2540C	WET/2409		
4010047007	DUP-002	SM 2540C	WET/2409		
4010047001	FBK-002	EPA 335.4	WETA/2527		
4010047002	MBR-001	EPA 335.4	WETA/2527		
4010047001	FBK-002	EPA 410.4	WETA/2530		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010047002	MBR-001	EPA 410.4	WETA/2530		
4010047003	EBR-001	EPA 410.4	WETA/2530		
4010047004	WBR-003	EPA 410.4	WETA/2530		
4010047005	WBR-002	EPA 410.4	WETA/2530		
4010047006	WBR-001	EPA 410.4	WETA/2530		
4010047007	DUP-002	EPA 410.4	WETA/2530		
4010047001	FBK-002	SM 4500-S F (2000)	WET/2424		
4010047002	MBR-001	SM 4500-S F (2000)	WET/2424		
4010047003	EBR-001	SM 4500-S F (2000)	WET/2424		
4010047004	WBR-003	SM 4500-S F (2000)	WET/2424		
4010047005	WBR-002	SM 4500-S F (2000)	WET/2424		
4010047006	WBR-001	SM 4500-S F (2000)	WET/2424		
4010047007	DUP-002	SM 4500-S F (2000)	WET/2424		
4010047001	FBK-002	EPA 1631E	CVFS/1268	EPA 1631E	CVFS/1269
4010047002	MBR-001	EPA 1631E	CVFS/1268	EPA 1631E	CVFS/1269
4010047003	EBR-001	EPA 1631E	CVFS/1268	EPA 1631E	CVFS/1269
4010047004	WBR-003	EPA 1631E	CVFS/1268	EPA 1631E	CVFS/1269
4010047005	WBR-002	EPA 1631E	CVFS/1268	EPA 1631E	CVFS/1269
4010047006	WBR-001	EPA 1631E	CVFS/1268	EPA 1631E	CVFS/1269
4010047007	DUP-002	EPA 1631E	CVFS/1268	EPA 1631E	CVFS/1269
4010047001	FBK-002	EPA 350.1	WETA/2547		
4010047002	MBR-001	EPA 350.1	WETA/2547		
4010047001	FBK-002	SM 2320B	WET/2448		
4010047002	MBR-001	SM 2320B	WET/2448		
4010047003	EBR-001	SM 2320B	WET/2448		
4010047004	WBR-003	SM 2320B	WET/2448		
4010047005	WBR-002	SM 2320B	WET/2448		
4010047006	WBR-001	SM 2320B	WET/2448		
4010047007	DUP-002	SM 2320B	WET/2448		
4010047003	EBR-001	EPA 350.1	WETA/2556		
4010047004	WBR-003	EPA 350.1	WETA/2556		
4010047005	WBR-002	EPA 350.1	WETA/2556		
4010047006	WBR-001	EPA 350.1	WETA/2556		
4010047007	DUP-002	EPA 350.1	WETA/2556		
4010047003	EBR-001	EPA 335.4	WETA/2575		
4010047004	WBR-003	EPA 335.4	WETA/2575		
4010047005	WBR-002	EPA 335.4	WETA/2575		
4010047006	WBR-001	EPA 335.4	WETA/2575		
4010047007	DUP-002	EPA 335.4	WETA/2575		
4010047001	FBK-002	SM 5310C	WETA/2602		
4010047002	MBR-001	SM 5310C	WETA/2602		
4010047003	EBR-001	SM 5310C	WETA/2602		
4010047004	WBR-003	SM 5310C	WETA/2602		
4010047005	WBR-002	SM 5310C	WETA/2602		
4010047006	WBR-001	SM 5310C	WETA/2602		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010047

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010047007	**DUP-002**	SM 5310C	WETA/2602		
4010047001	**FBK-002**	SM 5310C	WETA/2614		
4010047002	**MBR-001**	SM 5310C	WETA/2614		
4010047003	**EBR-001**	SM 5310C	WETA/2614		
4010047004	**WBR-003**	SM 5310C	WETA/2614		
4010047005	**WBR-002**	SM 5310C	WETA/2614		
4010047006	**WBR-001**	SM 5310C	WETA/2614		
4010047007	**DUP-002**	SM 5310C	WETA/2614		

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October 21, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Water Characterization
4010047 Foth & Van Dyke
Pace Project No. 08-4277

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received and logged in for analysis on October 15, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace Analytical Services, Inc. - Pittsburgh Quality Insurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-850-5600.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-4277
CLIENT: 4010047 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0810-0745	FBK-002 (4010047001)	0810-0746	MBR-001 (4010047002)
0810-0747	EBR-001 (4010047003)	0810-0748	WBR-003 (4010047004)
0810-0749	WBR-002 (4010047005)	0810-0750	WBR-001 (4010047006)
0810-0751	DUP-002 (4010047007)		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:
NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-4277
Water Characterization; 4010047 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0810-0745	FBK-002 (4010047001)	(10/8/08)	10/18/08	-0.627 ± 0.329	(1.49)
0810-0746	MBR-001 (4010047002)	(10/8/08)	10/18/08	0.242 ± 0.472	(1.03)
0810-0747	EBR-001 (4010047003)	(10/8/08)	10/18/08	0.770 ± 0.630	(1.15)
0810-0748	WBR-003 (4010047004)	(10/8/08)	10/18/08	0.413 ± 0.562	(1.16)
0810-0749	WBR-002 (4010047005)	(10/8/08)	10/18/08	0.717 ± 0.698	(1.35)
0810-0750	WBR-001 (4010047006)	(10/8/08)	10/18/08	0.306 ± 0.795	(1.88)
0810-0751	DUP-002 (4010047007)	(10/8/08)	10/18/08	-0.231 ± 0.442	(1.48)
0810-0752	Method Blank	(10/15/08)	10/18/08	0.615 ± 0.670	(1.30)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0810-0745	FBK-002 (4010047001)	(10/8/08)	10/18/08	-0.350 ± 0.544	(1.48)
0810-0746	MBR-001 (4010047002)	(10/8/08)	10/18/08	2.08 ± 0.756	(1.10)
0810-0747	EBR-001 (4010047003)	(10/8/08)	10/18/08	1.73 ± 0.685	(1.04)
0810-0748	WBR-003 (4010047004)	(10/8/08)	10/18/08	1.40 ± 0.618	(0.989)
0810-0749	WBR-002 (4010047005)	(10/8/08)	10/18/08	1.94 ± 0.727	(1.07)
0810-0750	WBR-001 (4010047006)	(10/8/08)	10/18/08	3.46 ± 1.18	(1.49)
0810-0751	DUP-002 (4010047007)	(10/8/08)	10/18/08	1.24 ± 0.832	(1.60)
0810-0752	Method Blank	(10/15/08)	10/18/08	0.087 ± 0.562	(1.32)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Quality Control Sample Performance Assessment

10/22/08

Test:	Gross Alpha
Analyst:	RMD
Date:	10/20/2008
Worklist:	17276
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.615
MB Counting Uncertainty:	0.661
MB MDC:	1.303
MB Numerical Performance Indicator:	1.82
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	10/18/2008	10/18/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	43.107	43.332
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	3.895	3.839
Numerical Performance Indicator:	-1.15	-1.07
Percent Recovery:	93.92%	94.41%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS17276
Duplicate Sample I.D.	LCSD17276
Sample Result (pCi/L, g, F):	43.107
Sample Result Counting Uncertainty (pCi/L, g, F):	3.895
Sample Duplicate Result (pCi/L, g, F):	43.332
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.839
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-0.081
Duplicate RPD:	0.52%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	10/7/2008
Sample I.D.	0810-0655
Sample MS I.D.	0810-0655MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	91.795
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.398
Sample Result:	0.289
Sample Result Counting Uncertainty (pCi/L, g, F):	0.697
Sample Matrix Spike Result:	81.674
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	5.798
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-2.566
MSD Numerical Performance Indicator:	
MS Percent Recovery:	88.66%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

QA Assessment Spreadsheet
PACE Analytical Services
Waltz Mill Laboratory

Quality Control Sample Performance Assessment

10/22/08

Test:	Gross Beta
Analyst:	RMD
Date:	10/20/2008
Worklist:	17276
Matrix (DW, W. F, Solid):	DW

Method Blank Assessment

MB concentration:	0.087
M/B Counting Uncertainty:	0.562
MB MDC:	1.316
MB Numerical Performance Indicator:	0.30
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	10/18/2008	10/18/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.133	39.133
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.567	19.567
Uncertainty (Calculated):	0.460	0.460
Result (pCi/L, g, F):	19.861	17.497
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.253	2.152
Numerical Performance Indicator:	0.25	-1.84
Percent Recovery:	101.50%	89.42%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS17276
Duplicate Sample I.D.	LCSD17276
Sample Result (pCi/L, g, F):	19.861
Sample Result Counting Uncertainty (pCi/L, g, F):	2.253
Sample Duplicate Result (pCi/L, g, F):	17.497
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.152
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	1.487
Duplicate RPD:	12.66%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	10/7/2008
Sample I.D.	0810-0655
Sample MS I.D.	0810-0655MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.162
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.162
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.921
Sample Result:	2.307
Sample Result Counting Uncertainty (pCi/L, g, F):	0.691
Sample Matrix Spike Result:	41.765
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	3.171
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.170
MSD Numerical Performance Indicator:	
MS Percent Recovery:	100.76%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

Sample Condition Upon Receipt

Client Name: NORTH JACKSON Project # 4010047

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.0°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/9 KC

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. NITRATE / NITRATE / TURBIDITY
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☑Yes ☐No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed KC / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DLA **Date:** 10/9/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20081008

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	All data FOTH by 7/31/08.

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other Zn $NaOH$	Analysis Test Y/N	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			N	N	N	N	N	N	N	Y	N					4010047
1	FBK-062	001	WT	-			10/8/08	1120	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	1-LTR Poly A, 3-500 mL Poly, 1-500 mL CG, 2-D, 1-A, 4-250 mL Poly, 2-125 mL AG
2	MBR-001	002	WT	G			10/8/08	1100	9	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	LTR Poly, 4-500 mL Poly, 1-500 mL CG, 3-250 mL Poly, 2-D, AG
3	EBR-001	003	WT	G			10/8/08	1200	9.5	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
4	WBR-003	004	WT	G			10/8/08	1320	9.5	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
5	WBR-002	005	WT	G			10/8/08	1435	11.7	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
6	WBR-001	006	WT	G			10/8/08	1550	9.8	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
7	DUP-002	007	WT	G			10/8/08	—	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / WJC	10/7/08	1800	FED EX						
	FED EX	10/9	0115	[signature]	10/9	0115	1.0	Y	Y	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

FED EX 7927 6611 3977
7927 6611 4002
7919 6706 9089
7993 9017 4830

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CURT SHEFFIELD, ANDY MARACINI, ~~PETER SINGLE~~

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/08/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Batch No. 4010120

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 26, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4010120001	**FBK-003**	Water	10/09/08 11:30	10/10/08 09:50
4010120002	**HMP-005**	Water	10/09/08 09:50	10/10/08 09:50
4010120003	**DUP 003**	Water	10/09/08 00:00	10/10/08 09:50
4010120004	**HMP-004**	Water	10/09/08 10:50	10/10/08 09:50
4010120005	**HMP-009**	Water	10/09/08 12:10	10/10/08 09:50
4010120006	**LKL-001**	Water	10/09/08 15:30	10/10/08 09:50
4010120007	**LKL-002**	Water	10/09/08 15:10	10/10/08 09:50

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4010120001	FBK-003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	MY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010120002	HMP-005	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010120003	DUP 003	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010120004	HMP-004	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010120005	HMP-009	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010120006	LKL-001	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010120007	**LKL-002**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	MY	1	PASI-G
		SM 5310C	MY	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Green Bay, WI 54302
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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: WET/2414

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 88635)
  - Total Suspended Solids

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- DUP 003 (Lab ID: 4010120003)
- HMP-004 (Lab ID: 4010120004)
- HMP-005 (Lab ID: 4010120002)
- HMP-009 (Lab ID: 4010120005)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2524

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010120002

M0: Matrix spike recovery was outside laboratory control limits.
- MS (Lab ID: 88452)
  - Nitrate as N
  - Nitrite as N
- MSD (Lab ID: 88453)
  - Nitrate as N
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 26, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: FBK-003 **Lab ID: 4010120001** Collected: 10/09/08 11:30 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.182J**	ng/L	0.50	0.16	1	10/13/08 06:30	10/20/08 08:46	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/15/08 15:30	10/22/08 04:49	7429-90-5	
Antimony	**0.085J**	ug/L	1.0	0.071	1	10/15/08 15:30	10/22/08 04:49	7440-36-0	
Arsenic	**<0.17**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 04:49	7440-38-2	
Barium	**0.56J**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 04:49	7440-39-3	B
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/15/08 15:30	10/22/08 04:49	7440-41-7	
Boron	**<1.1**	ug/L	5.0	1.1	1	10/15/08 15:30	10/22/08 04:49	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/15/08 15:30	10/22/08 04:49	7440-43-9	
Calcium	**<62.6**	ug/L	250	62.6	1	10/15/08 15:30	10/22/08 04:49	7440-70-2	
Chromium	**<0.30**	ug/L	1.0	0.30	1	10/15/08 15:30	10/22/08 04:49	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/15/08 15:30	10/22/08 04:49	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 04:49	7440-50-8	
Iron	**7.6J**	ug/L	250	5.0	1	10/15/08 15:30	10/22/08 04:49	7439-89-6	B
Lead	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 04:49	7439-92-1	
Lithium	**<0.13**	ug/L	1.0	0.13	1	10/15/08 15:30	10/22/08 04:49	7439-93-2	
Magnesium	**<6.1**	ug/L	250	6.1	1	10/15/08 15:30	10/22/08 04:49	7439-95-4	
Manganese	**0.29J**	ug/L	1.0	0.24	1	10/15/08 15:30	10/22/08 04:49	7439-96-5	
Molybdenum	**0.12J**	ug/L	1.0	0.064	1	10/15/08 15:30	10/22/08 04:49	7439-98-7	B
Nickel	**<0.15**	ug/L	1.0	0.15	1	10/15/08 15:30	10/22/08 04:49	7440-02-0	
Potassium	**<78.3**	ug/L	250	78.3	1	10/15/08 15:30	10/22/08 04:49	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/15/08 15:30	10/22/08 04:49	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/15/08 15:30	10/22/08 04:49	7440-22-4	
Sodium	**<51.2**	ug/L	250	51.2	1	10/15/08 15:30	10/22/08 21:46	7440-23-5	
Thallium	**1.4**	ug/L	1.0	0.019	1	10/15/08 15:30	10/22/08 21:46	7440-28-0	B
Total Hardness	**<0.15**	mg/L	5.0	0.15	1	10/15/08 15:30	10/22/08 04:49		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/15/08 15:30	10/22/08 04:49	7440-62-2	
Zinc	**4.0J**	ug/L	5.0	1.7	1	10/15/08 15:30	10/22/08 04:49	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		10/10/08 14:25		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:47		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:47		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		10/13/08 11:08		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/13/08 09:55		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: FBK-003 **Lab ID: 4010120001** Collected: 10/09/08 11:30 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/16/08 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/11/08 03:33	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/11/08 11:15	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**<1.1**	mg/L	5.0	1.1	1		10/11/08 03:33	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		10/11/08 03:33	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		10/11/08 19:01	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 15:07	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**1.3**	mg/L	1.0	0.50	1		10/27/08 15:52	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<11.3**	mg/L	52.6	11.3	1		10/14/08 09:45		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		10/26/08 14:00	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		10/26/08 15:57		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: HMP-005 **Lab ID: 4010120002** Collected: 10/09/08 09:50 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.205J**	ng/L	0.50	0.16	1	10/13/08 06:30	10/20/08 08:52	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/15/08 15:30	10/22/08 04:11	7429-90-5	
Antimony	**0.16J**	ug/L	1.0	0.071	1	10/15/08 15:30	10/22/08 04:11	7440-36-0	
Arsenic	**7.1**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 04:11	7440-38-2	
Barium	**41.0**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 04:11	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/15/08 15:30	10/22/08 04:11	7440-41-7	
Boron	**54.9**	ug/L	5.0	1.1	1	10/15/08 15:30	10/22/08 04:11	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/15/08 15:30	10/22/08 04:11	7440-43-9	
Calcium	**42000**	ug/L	250	62.6	1	10/15/08 15:30	10/22/08 04:11	7440-70-2	P6
Chromium	**0.39J**	ug/L	1.0	0.30	1	10/15/08 15:30	10/22/08 04:11	7440-47-3	
Cobalt	**6.2**	ug/L	1.0	0.077	1	10/15/08 15:30	10/22/08 04:11	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 04:11	7440-50-8	
Iron	**6960**	ug/L	250	5.0	1	10/15/08 15:30	10/22/08 04:11	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 04:11	7439-92-1	
Lithium	**2.6**	ug/L	1.0	0.13	1	10/15/08 15:30	10/22/08 04:11	7439-93-2	
Magnesium	**20100**	ug/L	250	6.1	1	10/15/08 15:30	10/22/08 04:11	7439-95-4	P6
Manganese	**1250**	ug/L	1.0	0.24	1	10/15/08 15:30	10/22/08 04:11	7439-96-5	
Molybdenum	**1.3**	ug/L	1.0	0.064	1	10/15/08 15:30	10/22/08 04:11	7439-98-7	B
Nickel	**16.9**	ug/L	1.0	0.15	1	10/15/08 15:30	10/22/08 04:11	7440-02-0	
Potassium	**4210**	ug/L	250	78.3	1	10/15/08 15:30	10/22/08 04:11	7440-09-7	
Selenium	**0.27J**	ug/L	1.0	0.25	1	10/15/08 15:30	10/22/08 04:11	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/15/08 15:30	10/22/08 04:11	7440-22-4	
Sodium	**6980**	ug/L	250	51.2	1	10/15/08 15:30	10/22/08 21:21	7440-23-5	
Thallium	**0.91J**	ug/L	1.0	0.019	1	10/15/08 15:30	10/22/08 21:21	7440-28-0	B
Total Hardness	**188**	mg/L	5.0	0.15	1	10/15/08 15:30	10/22/08 04:11		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/15/08 15:30	10/22/08 04:11	7440-62-2	
Zinc	**5.0**	ug/L	5.0	1.7	1	10/15/08 15:30	10/22/08 04:11	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**25.5**	NTU	1.0	0.44	1		10/10/08 14:25		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**97.2**	mg/L	10.0	3.2	1		10/22/08 15:47		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:47		
Alkalinity, Total as CaCO3	**97.2**	mg/L	10.0	3.2	1		10/22/08 15:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**264**	mg/L	20.0	12.0	1		10/13/08 11:08		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**7.4**	mg/L	2.9	0.89	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: HMP-005 **Lab ID: 4010120002** Collected: 10/09/08 09:50 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/16/08 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.20J**	mg/L	0.40	0.085	1		10/11/08 03:45	14797-55-8	M0
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/11/08 11:29	14797-65-0	H1,M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**9.2**	mg/L	5.0	1.1	1		10/11/08 03:45	16887-00-6	
Fluoride	**0.24J**	mg/L	0.50	0.059	1		10/11/08 03:45	16984-48-8	
Sulfate	**82.5**	mg/L	20.0	2.6	5		10/11/08 19:13	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 15:08	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/27/08 15:52	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.0J**	mg/L	50.0	10.8	1		10/22/08 11:30		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**3.0**	mg/L	2.0	1.4	1		10/26/08 14:04	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.8**	mg/L	2.0	1.4	1		10/26/08 16:11		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: DUP 003 **Lab ID: 4010120003** Collected: 10/09/08 00:00 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.245J**	ng/L	0.50	0.16	1	10/13/08 06:30	10/20/08 09:12	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**7.9J**	ug/L	250	4.5	1	10/15/08 15:30	10/23/08 22:12	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/15/08 15:30	10/23/08 22:12	7440-36-0	
Arsenic	**9.0**	ug/L	1.0	0.17	1	10/15/08 15:30	10/23/08 22:12	7440-38-2	
Barium	**45.3**	ug/L	1.0	0.17	1	10/15/08 15:30	10/23/08 22:12	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/15/08 15:30	10/23/08 22:12	7440-41-7	
Boron	**50.7**	ug/L	5.0	1.1	1	10/15/08 15:30	10/24/08 14:42	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/15/08 15:30	10/23/08 22:12	7440-43-9	
Calcium	**44100**	ug/L	250	62.6	1	10/15/08 15:30	10/23/08 22:12	7440-70-2	
Chromium	**0.34J**	ug/L	1.0	0.30	1	10/15/08 15:30	10/23/08 22:12	7440-47-3	
Cobalt	**5.6**	ug/L	1.0	0.077	1	10/15/08 15:30	10/23/08 22:12	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/23/08 22:12	7440-50-8	
Iron	**7570**	ug/L	250	5.0	1	10/15/08 15:30	10/23/08 22:12	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/23/08 22:12	7439-92-1	
Lithium	**2.6**	ug/L	1.0	0.13	1	10/15/08 15:30	10/23/08 22:12	7439-93-2	
Magnesium	**20400**	ug/L	250	6.1	1	10/15/08 15:30	10/23/08 22:12	7439-95-4	
Manganese	**1310**	ug/L	1.0	0.24	1	10/15/08 15:30	10/23/08 22:12	7439-96-5	
Molybdenum	**0.94J**	ug/L	1.0	0.064	1	10/15/08 15:30	10/23/08 22:12	7439-98-7	B
Nickel	**15.4**	ug/L	1.0	0.15	1	10/15/08 15:30	10/23/08 22:12	7440-02-0	
Potassium	**4150**	ug/L	250	78.3	1	10/15/08 15:30	10/23/08 22:12	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/15/08 15:30	10/23/08 22:12	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/15/08 15:30	10/23/08 22:12	7440-22-4	
Sodium	**6800**	ug/L	250	51.2	1	10/15/08 15:30	10/23/08 22:12	7440-23-5	
Thallium	**<0.019**	ug/L	1.0	0.019	1	10/15/08 15:30	10/23/08 22:12	7440-28-0	
Total Hardness	**194**	mg/L	5.0	0.15	1	10/15/08 15:30	10/23/08 22:12		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/15/08 15:30	10/23/08 22:12	7440-62-2	
Zinc	**4.8J**	ug/L	5.0	1.7	1	10/15/08 15:30	10/23/08 22:12	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**30.8**	NTU	1.0	0.44	1		10/10/08 14:25		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**99.4**	mg/L	10.0	3.2	1		10/22/08 15:47		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:47		
Alkalinity, Total as CaCO3	**99.4**	mg/L	10.0	3.2	1		10/22/08 15:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**264**	mg/L	20.0	12.0	1		10/13/08 11:09		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**9.3**	mg/L	2.2	0.69	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: HMP-004 **Lab ID: 4010120004** Collected: 10/09/08 10:50 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**4.24**	ng/L	0.50	0.16	1	10/13/08 06:30	10/20/08 09:17	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**190J**	ug/L	250	4.5	1	10/15/08 15:30	10/22/08 05:09	7429-90-5	
Antimony	**6.3**	ug/L	1.0	0.071	1	10/15/08 15:30	10/22/08 05:09	7440-36-0	
Arsenic	**0.73J**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 05:09	7440-38-2	
Barium	**17.1**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 05:09	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/15/08 15:30	10/22/08 05:09	7440-41-7	
Boron	**67.8**	ug/L	5.0	1.1	1	10/15/08 15:30	10/22/08 05:09	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/15/08 15:30	10/22/08 05:09	7440-43-9	
Calcium	**43400**	ug/L	250	62.6	1	10/15/08 15:30	10/22/08 05:09	7440-70-2	
Chromium	**1.2**	ug/L	1.0	0.30	1	10/15/08 15:30	10/22/08 05:09	7440-47-3	
Cobalt	**1.5**	ug/L	1.0	0.077	1	10/15/08 15:30	10/22/08 05:09	7440-48-4	
Copper	**4.2**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 05:09	7440-50-8	
Iron	**556**	ug/L	250	5.0	1	10/15/08 15:30	10/22/08 05:09	7439-89-6	
Lead	**1.0**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 05:09	7439-92-1	
Lithium	**2.3**	ug/L	1.0	0.13	1	10/15/08 15:30	10/22/08 05:09	7439-93-2	
Magnesium	**21800**	ug/L	250	6.1	1	10/15/08 15:30	10/22/08 05:09	7439-95-4	
Manganese	**34.8**	ug/L	1.0	0.24	1	10/15/08 15:30	10/22/08 05:09	7439-96-5	
Molybdenum	**8.2**	ug/L	1.0	0.064	1	10/15/08 15:30	10/22/08 05:09	7439-98-7	
Nickel	**15.0**	ug/L	1.0	0.15	1	10/15/08 15:30	10/22/08 05:09	7440-02-0	
Potassium	**13100**	ug/L	250	78.3	1	10/15/08 15:30	10/22/08 05:09	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/15/08 15:30	10/22/08 05:09	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/15/08 15:30	10/22/08 05:09	7440-22-4	
Sodium	**12400**	ug/L	250	51.2	1	10/15/08 15:30	10/22/08 22:14	7440-23-5	
Thallium	**0.22J**	ug/L	1.0	0.019	1	10/15/08 15:30	10/22/08 22:14	7440-28-0	B
Total Hardness	**198**	mg/L	5.0	0.15	1	10/15/08 15:30	10/22/08 05:09		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/15/08 15:30	10/22/08 05:09	7440-62-2	
Zinc	**218**	ug/L	5.0	1.7	1	10/15/08 15:30	10/22/08 05:09	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**25.1**	NTU	1.0	0.44	1		10/10/08 14:25		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**95.0**	mg/L	10.0	3.2	1		10/22/08 15:48		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:48		
Alkalinity, Total as CaCO3	**95.0**	mg/L	10.0	3.2	1		10/22/08 15:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**308**	mg/L	20.0	12.0	1		10/15/08 13:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**12.6**	mg/L	2.0	0.62	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: HMP-004 **Lab ID: 4010120004** Collected: 10/09/08 10:50 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/16/08 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.90**	mg/L	0.40	0.085	1		10/11/08 04:58	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/11/08 12:25	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**16.3**	mg/L	5.0	1.1	1		10/11/08 04:58	16887-00-6	
Fluoride	**0.25J**	mg/L	0.50	0.059	1		10/11/08 04:58	16984-48-8	
Sulfate	**108**	mg/L	20.0	2.6	5		10/13/08 16:43	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 15:09	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/27/08 15:56	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**55.4**	mg/L	50.0	10.8	1		10/22/08 11:30		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**9.2**	mg/L	2.0	1.4	1		10/26/08 14:20	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**6.7**	mg/L	2.0	1.4	1		10/26/08 16:17		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: HMP-009 **Lab ID: 4010120005** Collected: 10/09/08 12:10 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.986**	ng/L	0.50	0.16	1	10/13/08 06:30	10/20/08 09:33	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**11.6J**	ug/L	250	4.5	1	10/15/08 15:30	10/22/08 05:15	7429-90-5	
Antimony	**4.6**	ug/L	1.0	0.071	1	10/15/08 15:30	10/22/08 05:15	7440-36-0	
Arsenic	**0.42J**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 05:15	7440-38-2	
Barium	**19.3**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 05:15	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/15/08 15:30	10/22/08 05:15	7440-41-7	
Boron	**109**	ug/L	5.0	1.1	1	10/15/08 15:30	10/22/08 05:15	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/15/08 15:30	10/22/08 05:15	7440-43-9	
Calcium	**51800**	ug/L	250	62.6	1	10/15/08 15:30	10/22/08 05:15	7440-70-2	
Chromium	**<0.30**	ug/L	1.0	0.30	1	10/15/08 15:30	10/22/08 05:15	7440-47-3	
Cobalt	**1.5**	ug/L	1.0	0.077	1	10/15/08 15:30	10/22/08 05:15	7440-48-4	
Copper	**1.5**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 05:15	7440-50-8	
Iron	**237J**	ug/L	250	5.0	1	10/15/08 15:30	10/22/08 05:15	7439-89-6	B
Lead	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 05:15	7439-92-1	
Lithium	**0.63J**	ug/L	1.0	0.13	1	10/15/08 15:30	10/22/08 05:15	7439-93-2	
Magnesium	**24100**	ug/L	250	6.1	1	10/15/08 15:30	10/22/08 05:15	7439-95-4	
Manganese	**71.1**	ug/L	1.0	0.24	1	10/15/08 15:30	10/22/08 05:15	7439-96-5	
Molybdenum	**8.9**	ug/L	1.0	0.064	1	10/15/08 15:30	10/22/08 05:15	7439-98-7	
Nickel	**6.9**	ug/L	1.0	0.15	1	10/15/08 15:30	10/22/08 05:15	7440-02-0	
Potassium	**8490**	ug/L	250	78.3	1	10/15/08 15:30	10/22/08 05:15	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/15/08 15:30	10/22/08 05:15	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/15/08 15:30	10/22/08 05:15	7440-22-4	
Sodium	**13900**	ug/L	250	51.2	1	10/15/08 15:30	10/22/08 22:20	7440-23-5	
Thallium	**0.18J**	ug/L	1.0	0.019	1	10/15/08 15:30	10/22/08 22:20	7440-28-0	B
Total Hardness	**229**	mg/L	5.0	0.15	1	10/15/08 15:30	10/22/08 05:15		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/15/08 15:30	10/22/08 05:15	7440-62-2	
Zinc	**3.8J**	ug/L	5.0	1.7	1	10/15/08 15:30	10/22/08 05:15	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.3**	NTU	1.0	0.44	1		10/10/08 14:25		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	10.0	3.2	1		10/22/08 15:48		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:48		
Alkalinity, Total as CaCO3	**123**	mg/L	10.0	3.2	1		10/22/08 15:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**330**	mg/L	20.0	12.0	1		10/15/08 13:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**7.4**	mg/L	1.2	0.39	1		10/13/08 09:55		Z2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: HMP-009 **Lab ID: 4010120005** Collected: 10/09/08 12:10 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/16/08 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.30J**	mg/L	0.40	0.085	1		10/11/08 05:10	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/11/08 13:08	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**10.6**	mg/L	5.0	1.1	1		10/11/08 05:10	16887-00-6	
Fluoride	**0.27J**	mg/L	0.50	0.059	1		10/11/08 05:10	16984-48-8	
Sulfate	**118**	mg/L	20.0	2.6	5		10/13/08 16:58	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 15:10	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/27/08 15:57	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/22/08 11:30		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.9**	mg/L	2.0	1.4	1		10/26/08 14:25	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**4.0**	mg/L	2.0	1.4	1		10/26/08 16:21		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: LKL-001 **Lab ID: 4010120006** Collected: 10/09/08 15:30 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.890**	ng/L	0.50	0.16	1	10/13/08 06:30	10/20/08 09:42	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**16.5J**	ug/L	250	4.5	1	10/15/08 15:30	10/22/08 05:21	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/15/08 15:30	10/22/08 05:21	7440-36-0	
Arsenic	**0.81J**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 05:21	7440-38-2	
Barium	**3.6**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 05:21	7440-39-3	B
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/15/08 15:30	10/22/08 05:21	7440-41-7	
Boron	**12.3**	ug/L	5.0	1.1	1	10/15/08 15:30	10/22/08 05:21	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/15/08 15:30	10/22/08 05:21	7440-43-9	
Calcium	**8170**	ug/L	250	62.6	1	10/15/08 15:30	10/22/08 05:21	7440-70-2	
Chromium	**<0.30**	ug/L	1.0	0.30	1	10/15/08 15:30	10/22/08 05:21	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/15/08 15:30	10/22/08 05:21	7440-48-4	
Copper	**1.1**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 05:21	7440-50-8	
Iron	**373**	ug/L	250	5.0	1	10/15/08 15:30	10/22/08 05:21	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 05:21	7439-92-1	
Lithium	**1.0**	ug/L	1.0	0.13	1	10/15/08 15:30	10/22/08 05:21	7439-93-2	
Magnesium	**3370**	ug/L	250	6.1	1	10/15/08 15:30	10/22/08 05:21	7439-95-4	
Manganese	**156**	ug/L	1.0	0.24	1	10/15/08 15:30	10/22/08 05:21	7439-96-5	
Molybdenum	**0.76J**	ug/L	1.0	0.064	1	10/15/08 15:30	10/22/08 05:21	7439-98-7	B
Nickel	**0.86J**	ug/L	1.0	0.15	1	10/15/08 15:30	10/22/08 05:21	7440-02-0	
Potassium	**1140**	ug/L	250	78.3	1	10/15/08 15:30	10/22/08 05:21	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/15/08 15:30	10/22/08 05:21	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/15/08 15:30	10/22/08 05:21	7440-22-4	
Sodium	**1090**	ug/L	250	51.2	1	10/15/08 15:30	10/22/08 22:26	7440-23-5	
Thallium	**0.15J**	ug/L	1.0	0.019	1	10/15/08 15:30	10/22/08 22:26	7440-28-0	B
Total Hardness	**34.3**	mg/L	5.0	0.15	1	10/15/08 15:30	10/22/08 05:21		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/15/08 15:30	10/22/08 05:21	7440-62-2	
Zinc	**3.4J**	ug/L	5.0	1.7	1	10/15/08 15:30	10/22/08 05:21	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.2**	NTU	1.0	0.44	1		10/10/08 14:25		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**34.6**	mg/L	10.0	3.2	1		10/22/08 15:48		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:48		
Alkalinity, Total as CaCO3	**34.6**	mg/L	10.0	3.2	1		10/22/08 15:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**58.0**	mg/L	20.0	12.0	1		10/15/08 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.1**	mg/L	1.2	0.39	1		10/14/08 10:19		L2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: LKL-001 **Lab ID: 4010120006** Collected: 10/09/08 15:30 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/16/08 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/11/08 05:22	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/11/08 13:22	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5J**	mg/L	5.0	1.1	1		10/11/08 05:22	16887-00-6	
Fluoride	**0.22J**	mg/L	0.50	0.059	1		10/11/08 05:22	16984-48-8	
Sulfate	**3.5J**	mg/L	4.0	0.51	1		10/13/08 17:12	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 15:14	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/27/08 15:59	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**24.1J**	mg/L	50.0	10.8	1		10/22/08 11:30		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.3**	mg/L	2.0	1.4	1		10/26/08 14:29	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**7.8**	mg/L	2.0	1.4	1		10/26/08 16:25		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: LKL-002 **Lab ID: 4010120007** Collected: 10/09/08 15:10 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.03**	ng/L	0.50	0.16	1	10/13/08 06:30	10/20/08 09:52	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**18.2J**	ug/L	250	4.5	1	10/15/08 15:30	10/22/08 05:28	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/15/08 15:30	10/22/08 05:28	7440-36-0	
Arsenic	**0.80J**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 05:28	7440-38-2	
Barium	**4.3**	ug/L	1.0	0.17	1	10/15/08 15:30	10/22/08 05:28	7440-39-3	B
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/15/08 15:30	10/22/08 05:28	7440-41-7	
Boron	**11.0**	ug/L	5.0	1.1	1	10/15/08 15:30	10/22/08 05:28	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/15/08 15:30	10/22/08 05:28	7440-43-9	
Calcium	**7980**	ug/L	250	62.6	1	10/15/08 15:30	10/22/08 05:28	7440-70-2	
Chromium	**0.40J**	ug/L	1.0	0.30	1	10/15/08 15:30	10/22/08 05:28	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/15/08 15:30	10/22/08 05:28	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 05:28	7440-50-8	
Iron	**394**	ug/L	250	5.0	1	10/15/08 15:30	10/22/08 05:28	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/15/08 15:30	10/22/08 05:28	7439-92-1	
Lithium	**1.0**	ug/L	1.0	0.13	1	10/15/08 15:30	10/22/08 05:28	7439-93-2	
Magnesium	**3330**	ug/L	250	6.1	1	10/15/08 15:30	10/22/08 05:28	7439-95-4	
Manganese	**156**	ug/L	1.0	0.24	1	10/15/08 15:30	10/22/08 05:28	7439-96-5	
Molybdenum	**0.77J**	ug/L	1.0	0.064	1	10/15/08 15:30	10/22/08 05:28	7439-98-7	B
Nickel	**1.1**	ug/L	1.0	0.15	1	10/15/08 15:30	10/22/08 05:28	7440-02-0	
Potassium	**1130**	ug/L	250	78.3	1	10/15/08 15:30	10/22/08 05:28	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/15/08 15:30	10/22/08 05:28	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/15/08 15:30	10/22/08 05:28	7440-22-4	
Sodium	**1080**	ug/L	250	51.2	1	10/15/08 15:30	10/22/08 22:32	7440-23-5	
Thallium	**0.14J**	ug/L	1.0	0.019	1	10/15/08 15:30	10/22/08 22:32	7440-28-0	B
Total Hardness	**33.6**	mg/L	5.0	0.15	1	10/15/08 15:30	10/22/08 05:28		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/15/08 15:30	10/22/08 05:28	7440-62-2	
Zinc	**5.1**	ug/L	5.0	1.7	1	10/15/08 15:30	10/22/08 05:28	7440-66-6	B
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**4.0**	NTU	1.0	0.44	1		10/10/08 14:25		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**32.4**	mg/L	10.0	3.2	1		10/22/08 15:50		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/22/08 15:50		
Alkalinity, Total as CaCO3	**32.4**	mg/L	10.0	3.2	1		10/22/08 15:50		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**48.0**	mg/L	20.0	12.0	1		10/15/08 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.4**	mg/L	1.1	0.33	1		10/14/08 10:19		L2

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Sample: LKL-002 **Lab ID: 4010120007** Collected: 10/09/08 15:10 Received: 10/10/08 09:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/16/08 08:30		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/11/08 05:35	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/11/08 13:36	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**2.5J**	mg/L	5.0	1.1	1		10/11/08 05:35	16887-00-6	
Fluoride	**0.22J**	mg/L	0.50	0.059	1		10/11/08 05:35	16984-48-8	
Sulfate	**3.5J**	mg/L	4.0	0.51	1		10/13/08 17:26	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/22/08 15:15	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/27/08 16:00	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**28.6J**	mg/L	50.0	10.8	1		10/22/08 11:30		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**7.0**	mg/L	2.0	1.4	1		10/26/08 14:33	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**6.8**	mg/L	2.0	1.4	1		10/26/08 16:28		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WET/2407 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 88311 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<0.44	1.0	10/10/08 14:25	

LABORATORY CONTROL SAMPLE: 88312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	525	524	100		

SAMPLE DUPLICATE: 88313

Parameter	Units	4010120007 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	4.0	4.1	3	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WET/2408 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005

METHOD BLANK: 88328 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	0.40J	1.0	10/13/08 09:55	

LABORATORY CONTROL SAMPLE: 88329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	86.6	78.0	90	80-120	

SAMPLE DUPLICATE: 88330

Parameter	Units	4010047006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	38.0	40.0	5	10	

SAMPLE DUPLICATE: 88331

Parameter	Units	4010106002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	13.3	14.3	7	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WET/2409 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 4010120001, 4010120002, 4010120003

METHOD BLANK: 88435 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	10/13/08 11:04	

LABORATORY CONTROL SAMPLE: 88436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	202	212	105	80-120	

SAMPLE DUPLICATE: 88437

Parameter	Units	4010047001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	12.0J	<12.0		10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WETA/2524 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 88450 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	10/11/08 03:08	
Nitrite as N	mg/L	<0.036	0.10	10/11/08 10:46	

LABORATORY CONTROL SAMPLE: 88451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	97	90-110	
Nitrite as N	mg/L	.8	0.79	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88452 88453

Parameter	Units	4010120002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	0.20J	1.6	1.6	1.6	1.6	88	88	90-110	.6	20	M0
Nitrite as N	mg/L	<0.036	.8	.8	0.63	0.60	79	75	90-110	5	20	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WETA/2525 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 88454 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.1	5.0	10/11/08 03:08	
Fluoride	mg/L	<0.059	0.50	10/11/08 03:08	
Sulfate	mg/L	<0.51	4.0	10/11/08 18:37	

LABORATORY CONTROL SAMPLE: 88455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	18.3	91	90-110	
Fluoride	mg/L	2	1.9	96	90-110	
Sulfate	mg/L	16	15.1	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88456 88457

Parameter	Units	4010120002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.2	20	20	27.5	27.6	91	92	90-110	.2	20	
Fluoride	mg/L	0.24J	2	2	2.0	2.1	90	91	90-110	1	20	
Sulfate	mg/L	82.5	80	80	167	164	106	102	90-110	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WET/2414 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 4010120006, 4010120007

METHOD BLANK: 88634 | Matrix: Water
Associated Lab Samples: 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	10/14/08 10:19	

LABORATORY CONTROL SAMPLE: 88635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	86.6	64.0	74	80-120	L0

SAMPLE DUPLICATE: 88636

Parameter	Units	4010165001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1260	1200			

SAMPLE DUPLICATE: 88637

Parameter	Units	4010184001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	104	116			

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WETA/2530 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 4010120001

METHOD BLANK: 89028 | Matrix: Water
Associated Lab Samples: 4010120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	10/14/08 09:45	

LABORATORY CONTROL SAMPLE: 89029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	498	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 89030 89031

Parameter	Units	4010091002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	526	526	554	545	102	100	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 89032 89033

Parameter	Units	4010120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	<11.3	526	526	533	540	100	101	90-110	1	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WET/2423 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 89384 Matrix: Water
Associated Lab Samples: 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	10/15/08 13:56	

LABORATORY CONTROL SAMPLE: 89385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	202	196	97	80-120	

SAMPLE DUPLICATE: 89386

Parameter	Units	4010120007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	48.0	0	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: MPRP/1855 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 89515 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<4.5	250	10/22/08 03:33	
Antimony	ug/L	<0.071	1.0	10/22/08 03:33	
Arsenic	ug/L	<0.17	1.0	10/22/08 03:33	
Barium	ug/L	0.36J	1.0	10/22/08 03:33	
Beryllium	ug/L	<0.41	1.0	10/22/08 03:33	
Boron	ug/L	<1.1	5.0	10/22/08 03:33	
Cadmium	ug/L	<0.087	1.0	10/22/08 03:33	
Calcium	ug/L	<62.6	250	10/22/08 03:33	
Chromium	ug/L	<0.30	1.0	10/22/08 03:33	
Cobalt	ug/L	<0.077	1.0	10/22/08 03:33	
Copper	ug/L	<0.50	1.0	10/22/08 03:33	
Iron	ug/L	15.1J	250	10/22/08 03:33	
Lead	ug/L	<0.50	1.0	10/22/08 03:33	
Lithium	ug/L	<0.13	1.0	10/22/08 03:33	
Magnesium	ug/L	<6.1	250	10/22/08 03:33	
Manganese	ug/L	<0.24	1.0	10/22/08 03:33	
Molybdenum	ug/L	0.068J	1.0	10/22/08 03:33	
Nickel	ug/L	<0.15	1.0	10/22/08 03:33	
Potassium	ug/L	<78.3	250	10/22/08 03:33	
Selenium	ug/L	<0.25	1.0	10/22/08 03:33	
Silver	ug/L	<0.25	0.50	10/22/08 03:33	
Sodium	ug/L	<51.2	250	10/22/08 21:09	
Thallium	ug/L	0.11J	1.0	10/22/08 21:09	
Vanadium	ug/L	<0.45	1.0	10/22/08 03:33	
Zinc	ug/L	4.4J	5.0	10/22/08 03:33	

LABORATORY CONTROL SAMPLE: 89516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	5020	100	75-125	
Antimony	ug/L	500	488	98	75-125	
Arsenic	ug/L	500	491	98	75-125	
Barium	ug/L	500	481	96	75-125	
Beryllium	ug/L	500	494	99	75-125	
Boron	ug/L	500	488	98	75-125	
Cadmium	ug/L	500	497	99	75-125	
Calcium	ug/L	5000	4940	99	75-125	
Chromium	ug/L	500	493	99	75-125	
Cobalt	ug/L	500	494	99	75-125	
Copper	ug/L	500	491	98	75-125	
Iron	ug/L	5000	5040	101	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

LABORATORY CONTROL SAMPLE: 89516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	475	95	75-125	
Lithium	ug/L	500	493	99	75-125	
Magnesium	ug/L	5000	5090	102	75-125	
Manganese	ug/L	500	493	99	75-125	
Molybdenum	ug/L	500	479	96	75-125	
Nickel	ug/L	500	508	102	75-125	
Potassium	ug/L	5000	5130	103	75-125	
Selenium	ug/L	500	499	100	75-125	
Silver	ug/L	250	247	99	75-125	
Sodium	ug/L	5000	5210	104	75-125	
Thallium	ug/L	500	475	95	75-125	
Vanadium	ug/L	500	480	96	75-125	
Zinc	ug/L	500	502	100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 89517 89518

Parameter	Units	4010120002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	<4.5	5000	5000	4930	4740	99	95	75-125	4	20	
Antimony	ug/L	0.16J	500	500	491	475	98	95	75-125	3	20	
Arsenic	ug/L	7.1	500	500	502	486	99	96	75-125	3	20	
Barium	ug/L	41.0	500	500	515	499	95	92	75-125	3	20	
Beryllium	ug/L	<0.41	500	500	487	469	97	94	75-125	4	20	
Boron	ug/L	54.9	500	500	544	521	98	93	75-125	4	20	
Cadmium	ug/L	<0.087	500	500	491	478	98	96	75-125	3	20	
Calcium	ug/L	42000	5000	5000	45300	43700	66	34	75-125	4	20	P6
Chromium	ug/L	0.39J	500	500	497	480	99	96	75-125	4	20	
Cobalt	ug/L	6.2	500	500	488	478	96	94	75-125	2	20	
Copper	ug/L	<0.50	500	500	475	461	95	92	75-125	3	20	
Iron	ug/L	6960	5000	5000	11800	11400	97	88	75-125	4	20	
Lead	ug/L	<0.50	500	500	473	459	95	92	75-125	3	20	
Lithium	ug/L	2.6	500	500	491	475	98	94	75-125	3	20	
Magnesium	ug/L	20100	5000	5000	24400	23500	86	68	75-125	4	20	P6
Manganese	ug/L	1250	500	500	1690	1640	90	79	75-125	3	20	
Molybdenum	ug/L	1.3	500	500	482	466	96	93	75-125	3	20	
Nickel	ug/L	16.9	500	500	508	495	98	96	75-125	2	20	
Potassium	ug/L	4210	5000	5000	9220	8920	100	94	75-125	3	20	
Selenium	ug/L	0.27J	500	500	499	481	100	96	75-125	4	20	
Silver	ug/L	<0.25	250	250	241	234	96	94	75-125	3	20	
Sodium	ug/L	6980	5000	5000	11600	11300	92	86	75-125	3	20	
Thallium	ug/L	0.91J	500	500	484	469	97	94	75-125	3	20	
Vanadium	ug/L	<0.45	500	500	484	469	97	94	75-125	3	20	
Zinc	ug/L	5.0	500	500	495	480	98	95	75-125	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WET/2431 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 90133 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<2.3	5.0	10/16/08 08:30	

LABORATORY CONTROL SAMPLE: 90134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	48	39.6	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 90135 90136

Parameter	Units	4010120004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.3	48	48	40.4	40.8	82	83	80-120	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: CVFS/1274 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 91580 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.160J	0.50	10/20/08 07:36	

METHOD BLANK: 91581 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	<0.16	0.50	10/20/08 08:35	

METHOD BLANK: 91582 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.236J	0.50	10/20/08 07:45	

LABORATORY CONTROL SAMPLE & LCSD: 91583 91584

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.18	5.04	104	101	79-121	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 91585 91586

Parameter	Units	9229772002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	49.1	200	200	262	249	107	100	75-125	5	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 91587 91588

Parameter	Units	4010120004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	4.24	20	20	26.9	25.4	113	106	75-125	5	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WETA/2575 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 92364 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0060	0.020	10/22/08 14:52	

LABORATORY CONTROL SAMPLE: 92365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.098	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92366 92367

Parameter	Units	4010099005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.036	.6	.6	0.62	0.58	104	96	90-110	8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92368 92369

Parameter	Units	4010225001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.10	0.098	101	98	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WET/2481 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 92604 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	10/22/08 15:45	

LABORATORY CONTROL SAMPLE: 92605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	486	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92606 92607

Parameter	Units	4010120002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	97.2	500	500	583	590	97	98	80-120	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WETA/2585 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 92623 Matrix: Water
Associated Lab Samples: 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	10/22/08 11:30	

LABORATORY CONTROL SAMPLE: 92624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	493	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92625 92626

Parameter	Units	4010233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	20.7J	526	526	557	550	102	100	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92627 92628

Parameter	Units	4010392001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	5220	5000	5000	9840	9870	92	93	90-110	.2	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WETA/2613 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 93989 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	10/26/08 12:46	

LABORATORY CONTROL SAMPLE: 93990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	101	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93991 93992

Parameter	Units	4010050009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	<1.4	100	100	105	105	104	104	80-120	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93993 93994

Parameter	Units	4010115001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	<1.4	100	100	105	109	104	108	80-120	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WETA/2614 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 94058 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	10/26/08 15:06	

LABORATORY CONTROL SAMPLE: 94059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	104	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94060 94061

Parameter	Units	4010047001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<1.4	100	100	105	104	105	104	80-120	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94062 94063

Parameter	Units	4010120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<1.4	100	100	105	105	105	105	80-120	.08	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

QC Batch: WETA/2624 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 94229 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	10/27/08 15:47	

LABORATORY CONTROL SAMPLE: 94230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94231 94232

Parameter	Units	4010120005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.4	10.2	104	102	90-110	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94233 94234

Parameter	Units	4010169010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.0 U	10	10	10.4	9.7	103	96	90-110	7	20	

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QUALIFIERS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the recognized method holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
Z2	Analyte present in the associated method blank above the detection limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010120001	FBK-003	SM 2130B	WET/2407		
4010120002	HMP-005	SM 2130B	WET/2407		
4010120003	DUP 003	SM 2130B	WET/2407		
4010120004	HMP-004	SM 2130B	WET/2407		
4010120005	HMP-009	SM 2130B	WET/2407		
4010120006	LKL-001	SM 2130B	WET/2407		
4010120007	LKL-002	SM 2130B	WET/2407		
4010120001	FBK-003	SM 2540D	WET/2408		
4010120002	HMP-005	SM 2540D	WET/2408		
4010120003	DUP 003	SM 2540D	WET/2408		
4010120004	HMP-004	SM 2540D	WET/2408		
4010120005	HMP-009	SM 2540D	WET/2408		
4010120001	FBK-003	SM 2540C	WET/2409		
4010120002	HMP-005	SM 2540C	WET/2409		
4010120003	DUP 003	SM 2540C	WET/2409		
4010120001	FBK-003	EPA 300.0	WETA/2524		
4010120002	HMP-005	EPA 300.0	WETA/2524		
4010120003	DUP 003	EPA 300.0	WETA/2524		
4010120004	HMP-004	EPA 300.0	WETA/2524		
4010120005	HMP-009	EPA 300.0	WETA/2524		
4010120006	LKL-001	EPA 300.0	WETA/2524		
4010120007	LKL-002	EPA 300.0	WETA/2524		
4010120001	FBK-003	EPA 300.0	WETA/2525		
4010120002	HMP-005	EPA 300.0	WETA/2525		
4010120003	DUP 003	EPA 300.0	WETA/2525		
4010120004	HMP-004	EPA 300.0	WETA/2525		
4010120005	HMP-009	EPA 300.0	WETA/2525		
4010120006	LKL-001	EPA 300.0	WETA/2525		
4010120007	LKL-002	EPA 300.0	WETA/2525		
4010120006	LKL-001	SM 2540D	WET/2414		
4010120007	LKL-002	SM 2540D	WET/2414		
4010120001	FBK-003	EPA 410.4	WETA/2530		
4010120004	HMP-004	SM 2540C	WET/2423		
4010120005	HMP-009	SM 2540C	WET/2423		
4010120006	LKL-001	SM 2540C	WET/2423		
4010120007	LKL-002	SM 2540C	WET/2423		
4010120001	FBK-003	EPA 3010	MPRP/1855	EPA 6020	ICPM/1203
4010120002	HMP-005	EPA 3010	MPRP/1855	EPA 6020	ICPM/1203
4010120003	DUP 003	EPA 3010	MPRP/1855	EPA 6020	ICPM/1203
4010120004	HMP-004	EPA 3010	MPRP/1855	EPA 6020	ICPM/1203
4010120005	HMP-009	EPA 3010	MPRP/1855	EPA 6020	ICPM/1203
4010120006	LKL-001	EPA 3010	MPRP/1855	EPA 6020	ICPM/1203
4010120007	LKL-002	EPA 3010	MPRP/1855	EPA 6020	ICPM/1203
4010120001	FBK-003	SM 4500-S F (2000)	WET/2431		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010120002	HMP-005	SM 4500-S F (2000)	WET/2431		
4010120003	DUP 003	SM 4500-S F (2000)	WET/2431		
4010120004	HMP-004	SM 4500-S F (2000)	WET/2431		
4010120005	HMP-009	SM 4500-S F (2000)	WET/2431		
4010120006	LKL-001	SM 4500-S F (2000)	WET/2431		
4010120007	LKL-002	SM 4500-S F (2000)	WET/2431		
4010120001	FBK-003	EPA 1631E	CVFS/1274	EPA 1631E	CVFS/1275
4010120002	HMP-005	EPA 1631E	CVFS/1274	EPA 1631E	CVFS/1275
4010120003	DUP 003	EPA 1631E	CVFS/1274	EPA 1631E	CVFS/1275
4010120004	HMP-004	EPA 1631E	CVFS/1274	EPA 1631E	CVFS/1275
4010120005	HMP-009	EPA 1631E	CVFS/1274	EPA 1631E	CVFS/1275
4010120006	LKL-001	EPA 1631E	CVFS/1274	EPA 1631E	CVFS/1275
4010120007	LKL-002	EPA 1631E	CVFS/1274	EPA 1631E	CVFS/1275
4010120001	FBK-003	EPA 335.4	WETA/2575		
4010120002	HMP-005	EPA 335.4	WETA/2575		
4010120003	DUP 003	EPA 335.4	WETA/2575		
4010120004	HMP-004	EPA 335.4	WETA/2575		
4010120005	HMP-009	EPA 335.4	WETA/2575		
4010120006	LKL-001	EPA 335.4	WETA/2575		
4010120007	LKL-002	EPA 335.4	WETA/2575		
4010120001	FBK-003	SM 2320B	WET/2481		
4010120002	HMP-005	SM 2320B	WET/2481		
4010120003	DUP 003	SM 2320B	WET/2481		
4010120004	HMP-004	SM 2320B	WET/2481		
4010120005	HMP-009	SM 2320B	WET/2481		
4010120006	LKL-001	SM 2320B	WET/2481		
4010120007	LKL-002	SM 2320B	WET/2481		
4010120002	HMP-005	EPA 410.4	WETA/2585		
4010120003	DUP 003	EPA 410.4	WETA/2585		
4010120004	HMP-004	EPA 410.4	WETA/2585		
4010120005	HMP-009	EPA 410.4	WETA/2585		
4010120006	LKL-001	EPA 410.4	WETA/2585		
4010120007	LKL-002	EPA 410.4	WETA/2585		
4010120001	FBK-003	SM 5310C	WETA/2613		
4010120002	HMP-005	SM 5310C	WETA/2613		
4010120003	DUP 003	SM 5310C	WETA/2613		
4010120004	HMP-004	SM 5310C	WETA/2613		
4010120005	HMP-009	SM 5310C	WETA/2613		
4010120006	LKL-001	SM 5310C	WETA/2613		
4010120007	LKL-002	SM 5310C	WETA/2613		
4010120001	FBK-003	SM 5310C	WETA/2614		
4010120002	HMP-005	SM 5310C	WETA/2614		
4010120003	DUP 003	SM 5310C	WETA/2614		
4010120004	HMP-004	SM 5310C	WETA/2614		
4010120005	HMP-009	SM 5310C	WETA/2614		
4010120006	LKL-001	SM 5310C	WETA/2614		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010120007	**LKL-002**	SM 5310C	WETA/2614		
4010120001	**FBK-003**	EPA 350.1	WETA/2624		
4010120002	**HMP-005**	EPA 350.1	WETA/2624		
4010120003	**DUP 003**	EPA 350.1	WETA/2624		
4010120004	**HMP-004**	EPA 350.1	WETA/2624		
4010120005	**HMP-009**	EPA 350.1	WETA/2624		
4010120006	**LKL-001**	EPA 350.1	WETA/2624		
4010120007	**LKL-002**	EPA 350.1	WETA/2624		

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Greensburg, PA 15601
(724)850-5600

November 26, 2008

Tod Noltemeyer
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

RE: Project: 4010120
Pace Project No.: 301183

Dear Tod Noltemeyer:
Enclosed are the analytical results for sample(s) received by the laboratory on November 14, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 4010120
Pace Project No.: 301183

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4010120001	**FBK-003**	Water	10/09/08 11:30	11/14/08 10:10
4010120002	**HMP-005**	Water	10/09/08 09:50	11/14/08 10:10
4010120003	**DUP 003**	Water	10/09/08 00:00	11/14/08 10:10
4010120004	**HMP-004**	Water	10/09/08 10:50	11/14/08 10:10
4010120005	**HMP-009**	Water	10/09/08 12:10	11/14/08 10:10
4010120006	**LKL-001**	Water	10/09/08 15:30	11/14/08 10:10
4010120007	**LKL-002**	Water	10/09/08 15:10	11/14/08 10:10

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SAMPLE ANALYTE COUNT

Project: 4010120
Pace Project No.: 301183

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4010120001	FBK-003	EPA 900.0m	RMD	2	PASI-PA
4010120002	HMP-005	EPA 900.0m	RMD	2	PASI-PA
4010120003	DUP 003	EPA 900.0m	RMD	2	PASI-PA
4010120004	HMP-004	EPA 900.0m	RMD	2	PASI-PA
4010120005	HMP-009	EPA 900.0m	RMD	2	PASI-PA
4010120006	LKL-001	EPA 900.0m	RMD	2	PASI-PA
4010120007	LKL-002	EPA 900.0m	RMD	2	PASI-PA

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PROJECT NARRATIVE

Project: 4010120
Pace Project No.: 301183

Method: **EPA 900.0m**
Description: 900.0 Gross Alpha/Beta
Client: Pace Analytical Services Inc.
Date: November 26, 2008

General Information:
7 samples were analyzed for EPA 900.0m. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 4010120
Pace Project No.: 301183

Sample: FBK-003 **Lab ID: 4010120001** Collected: 10/09/08 11:30 Received: 11/14/08 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**0.0250 ± 0.288 (0.513)**	pCi/L	11/22/08 21:11		
Gross Beta	EPA 900.0m	**0.0696 ± 0.312 (0.535)**	pCi/L	11/22/08 21:11		

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ANALYTICAL RESULTS

Project: 4010120
Pace Project No.: 301183

Sample: HMP-005 **Lab ID: 4010120002** Collected: 10/09/08 09:50 Received: 11/14/08 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**0.328 ± 0.580 (0.987)**	pCi/L	11/22/08 21:12		
Gross Beta	EPA 900.0m	**3.36 ± 0.849 (0.831)**	pCi/L	11/22/08 21:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 4010120
Pace Project No.: 301183

Sample: DUP 003 | **Lab ID: 4010120003** | Collected: 10/09/08 00:00 | Received: 11/14/08 10:10 | Matrix: Water
PWS: | Site ID: | Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**0.941 ± 0.509 (0.719)**	pCi/L	11/22/08 21:11		
Gross Beta	EPA 900.0m	**2.74 ± 0.706 (0.699)**	pCi/L	11/22/08 21:11		

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ANALYTICAL RESULTS

Project: 4010120
Pace Project No.: 301183

Sample: HMP-004 **Lab ID: 4010120004** Collected: 10/09/08 10:50 Received: 11/14/08 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**1.16 ± 0.776 (1.18)**	pCi/L	11/22/08 21:11		
Gross Beta	EPA 900.0m	**10.1 ± 2.02 (0.899)**	pCi/L	11/22/08 21:11		

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ANALYTICAL RESULTS

Project: 4010120
Pace Project No.: 301183

Sample: HMP-009 **Lab ID: 4010120005** Collected: 10/09/08 12:10 Received: 11/14/08 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**1.64 ± 0.750 (0.987)**	pCi/L	11/22/08 21:11		
Gross Beta	EPA 900.0m	**3.53 ± 0.975 (1.07)**	pCi/L	11/22/08 21:11		

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ANALYTICAL RESULTS

Project: 4010120
Pace Project No.: 301183

Sample: LKL-001 **Lab ID: 4010120006** Collected: 10/09/08 15:30 Received: 11/14/08 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**0.328 ± 0.628 (1.44)**	pCi/L	11/22/08 12:40		
Gross Beta	EPA 900.0m	**1.26 ± 0.942 (1.82)**	pCi/L	11/22/08 12:40		

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ANALYTICAL RESULTS

Project: 4010120
Pace Project No.: 301183

Sample: LKL-002 **Lab ID: 4010120007** Collected: 10/09/08 15:10 Received: 11/14/08 10:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0m	**0.178 ± 0.517 (1.31)**	pCi/L	11/22/08 12:41		
Gross Beta	EPA 900.0m	**0.730 ± 0.798 (1.68)**	pCi/L	11/22/08 12:41		

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QUALITY CONTROL DATA

Project: 4010120
Pace Project No.: 301183

QC Batch: RADC/1013 Analysis Method: EPA 900.0m
QC Batch Method: EPA 900.0m Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

METHOD BLANK: 1736 Matrix: Water
Associated Lab Samples: 4010120001, 4010120002, 4010120003, 4010120004, 4010120005, 4010120006, 4010120007

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Gross Alpha	-0.907 ± 0.432 (2.05)	pCi/L	11/22/08 12:42	
Gross Beta	0.599 ± 0.908 (2.08)	pCi/L	11/22/08 12:42	

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QUALIFIERS

Project: 4010120
Pace Project No.: 301183

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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Sample Condition Upon Receipt

Pace Analytical

Client Name: NORTH JACKSON Project # 4010120

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1° Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/10/08

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. TURBITITY
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed ZY / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 10/10/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

(X) = 8-500mL 2N-A, 4-250mL ADS,C, 2-125mL ACC, 1-1L Poly, 1-500mL CC

20081009

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	All data FOTH by 7/31/08.

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other 2N NaOH	Analysis Test (Y/N)	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 4010120
																		Analysis Test	N	N	N	N	N	N	N	Y	N					
1	FBK-003	WT	G			10/9/08	1130	–	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	(X)
2	HMP-005 SW	WT	G			10/9/08	950	7.6	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
3	DUP-003	WT	G			10/9/08	–	–	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
4	HMP-004 SW	WT	G			10/9/08	1050	8.3	13	4	4	2		1			2		1	1	1	1	2	1	2	2	2				N	+ 1-125mL, 1-250
5	HMP-009 SW	WT	G			10/9/08	1210	9.4	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
6	LKL-001 SW	WT	G			10/9/08	1530	12.4	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
7	LKL-002 SW	WT	G			10/9/08	1510	–	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / NTC	10/9/08	1800							
	Fedex	10/10/08	950	[signature]	10/10/08	950	1	Y	Y	Y

FED EX 7993 9101 6522
7921 2333 3254
7993 9101 6533
7927 6696 0713

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CURT SHEFFIELD PETE SABEE

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10/09/08

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

F-ALL-Q-020rev.07, 15-Feb-2007

Batch No. 4010516

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

November 13, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4010516001	**HPL-003 3'**	Water	10/20/08 11:20	10/21/08 10:00
4010516002	**HPL-003 15'**	Water	10/20/08 11:35	10/21/08 10:00
4010516003	**HPL-003 60'**	Water	10/20/08 11:50	10/21/08 10:00
4010516004	**HPL-003 120'**	Water	10/20/08 14:10	10/21/08 10:00
4010516005	**HPL-003 175'**	Water	10/20/08 15:05	10/21/08 10:00
4010516006	**DUP-004**	Water	10/20/08 00:00	10/21/08 10:00
4010516007	**FBK-004**	Water	10/20/08 10:30	10/21/08 10:00

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4010516001	**HPL-003 3'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010516002	**HPL-003 15'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010516003	**HPL-003 60'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4010516004	**HPL-003 120'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010516005	**HPL-003 175'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010516006	**DUP-004**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010516007	**FBK-004**	EPA 1631E	GMW	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **EPA 1631E**
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: EPA 6020
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/1899

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010516001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 93374)
  - Potassium
  - Sodium

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/2482

R1: RPD value was outside control limits.

- DUP (Lab ID: 92686)
  - Total Suspended Solids

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- DUP-004 (Lab ID: 4010516006)
- FBK-004 (Lab ID: 4010516007)
- HPL-003 120' (Lab ID: 4010516004)
- HPL-003 15' (Lab ID: 4010516002)
- HPL-003 175' (Lab ID: 4010516005)
- HPL-003 3' (Lab ID: 4010516001)
- HPL-003 60' (Lab ID: 4010516003)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2581

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010516001,4010516002

M0: Matrix spike recovery was outside laboratory control limits.
- MS (Lab ID: 92410)
  - Nitrite as N
- MSD (Lab ID: 92411)
  - Nitrite as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2582

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010516001,4010516002

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 92423)
  - Fluoride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
1 sample was analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: EPA 410.4
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2654

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010576003,4010838001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 95707)
  - Chemical Oxygen Demand
- MSD (Lab ID: 95708)
  - Chemical Oxygen Demand

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2639

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010516001,4010576001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 94975)
  - Dissolved Organic Carbon
- MSD (Lab ID: 94976)
  - Dissolved Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 13, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 3' **Lab ID: 4010516001** Collected: 10/20/08 11:20 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.360J**	ng/L	0.50	0.16	1	10/21/08 12:15	10/24/08 12:29	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**10.5J**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 19:13	7429-90-5	
Antimony	**6.8**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 19:13	7440-36-0	
Arsenic	**1.2**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 19:13	7440-38-2	
Barium	**7.8**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 19:13	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 19:13	7440-41-7	
Boron	**81.1**	ug/L	5.0	1.1	1	10/24/08 08:00	11/04/08 19:40	7440-42-8	
Cadmium	**0.094J**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 19:13	7440-43-9	
Calcium	**49800**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 19:13	7440-70-2	P6
Chromium	**3.1**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 19:13	7440-47-3	
Cobalt	**3.3**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 19:13	7440-48-4	
Copper	**1.7**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 19:13	7440-50-8	
Iron	**271**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 19:13	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 19:13	7439-92-1	
Lithium	**3.5**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 19:13	7439-93-2	
Magnesium	**24100**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 19:13	7439-95-4	P6
Manganese	**62.2**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 19:13	7439-96-5	
Molybdenum	**11.3**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 19:13	7439-98-7	
Nickel	**9.5**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 19:13	7440-02-0	
Potassium	**7990**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 19:13	7440-09-7	M0
Selenium	**0.50J**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 19:13	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 19:13	7440-22-4	
Sodium	**12500**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 19:13	7440-23-5	M0
Thallium	**0.40J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 19:13	7440-28-0	B
Total Hardness	**223**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 19:13		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 19:13	7440-62-2	
Zinc	**3.7J**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 19:13	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**2.0**	NTU	1.0	0.44	1		10/21/08 14:10		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	10.0	3.2	1		10/29/08 15:30		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:30		
Alkalinity, Total as CaCO3	**102**	mg/L	10.0	3.2	1		10/29/08 15:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**320**	mg/L	20.0	12.0	1		10/23/08 14:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.60J**	mg/L	1.0	0.31	1		10/23/08 10:18		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 3' **Lab ID: 4010516001** Collected: 10/20/08 11:20 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.6**	mg/L	0.40	0.085	1		10/22/08 07:26	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/22/08 15:56	14797-65-0	H1,M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.1**	mg/L	5.0	1.1	1		10/22/08 07:26	16887-00-6	
Fluoride	**0.29J**	mg/L	0.50	0.059	1		10/22/08 07:26	16984-48-8	
Sulfate	**132**	mg/L	20.0	2.6	5		10/23/08 19:29	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/29/08 14:32	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/31/08 12:47	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.4**	mg/L	2.0	1.4	1		11/03/08 07:55	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.6**	mg/L	2.0	1.4	1		10/31/08 09:35		M0

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 15' **Lab ID: 4010516002** Collected: 10/20/08 11:35 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.404J**	ng/L	0.50	0.16	1	10/21/08 12:15	10/24/08 12:36	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 19:49	7429-90-5	
Antimony	**6.4**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 19:49	7440-36-0	
Arsenic	**1.0**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 19:49	7440-38-2	
Barium	**7.3**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 19:49	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 19:49	7440-41-7	
Boron	**79.2**	ug/L	5.0	1.1	1	10/24/08 08:00	11/04/08 20:05	7440-42-8	SD
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 19:49	7440-43-9	
Calcium	**47200**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 19:49	7440-70-2	
Chromium	**0.60J**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 19:49	7440-47-3	
Cobalt	**2.6**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 19:49	7440-48-4	
Copper	**1.5**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 19:49	7440-50-8	
Iron	**238J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 19:49	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 19:49	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 19:49	7439-93-2	
Magnesium	**22900**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 19:49	7439-95-4	
Manganese	**59.6**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 19:49	7439-96-5	
Molybdenum	**10**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 19:49	7439-98-7	
Nickel	**7.7**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 19:49	7440-02-0	
Potassium	**7530**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 19:49	7440-09-7	
Selenium	**0.32J**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 19:49	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 19:49	7440-22-4	
Sodium	**11800**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 19:49	7440-23-5	
Thallium	**0.41J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 19:49	7440-28-0	B
Total Hardness	**212**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 19:49		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 19:49	7440-62-2	
Zinc	**3.9J**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 19:49	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.9**	NTU	1.0	0.44	1		10/21/08 14:10		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**99.4**	mg/L	10.0	3.2	1		10/29/08 15:30		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:30		
Alkalinity, Total as CaCO3	**99.4**	mg/L	10.0	3.2	1		10/29/08 15:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**322**	mg/L	20.0	12.0	1		10/23/08 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.70J**	mg/L	1.0	0.31	1		10/23/08 10:18		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 15' **Lab ID: 4010516002** Collected: 10/20/08 11:35 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.6**	mg/L	0.40	0.085	1		10/22/08 08:08	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/22/08 16:39	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.1**	mg/L	5.0	1.1	1		10/22/08 08:08	16887-00-6	
Fluoride	**0.30J**	mg/L	0.50	0.059	1		10/22/08 08:08	16984-48-8	M0
Sulfate	**135**	mg/L	20.0	2.6	5		10/23/08 20:12	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/29/08 14:33	57-12-5	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.4**	mg/L	2.0	1.4	1		11/03/08 08:16	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.7**	mg/L	2.0	1.4	1		10/31/08 09:59		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 60' **Lab ID: 4010516003** Collected: 10/20/08 11:50 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.303J**	ng/L	0.50	0.16	1	10/21/08 12:15	10/24/08 12:41	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:00	7429-90-5	
Antimony	**8.2**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:00	7440-36-0	
Arsenic	**0.36J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:00	7440-38-2	
Barium	**7.8**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:00	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:00	7440-41-7	
Boron	**82.4**	ug/L	5.0	1.1	1	10/24/08 08:00	11/04/08 20:18	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:00	7440-43-9	
Calcium	**49900**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:00	7440-70-2	
Chromium	**1.7**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:00	7440-47-3	
Cobalt	**4.7**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:00	7440-48-4	
Copper	**1.9**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:00	7440-50-8	
Iron	**76.6J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:00	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:00	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:00	7439-93-2	
Magnesium	**24600**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:00	7439-95-4	
Manganese	**331**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:00	7439-96-5	
Molybdenum	**12.2**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:00	7439-98-7	
Nickel	**23.6**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:00	7440-02-0	
Potassium	**8700**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:00	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:00	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:00	7440-22-4	
Sodium	**13700**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:00	7440-23-5	
Thallium	**0.16J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:00	7440-28-0	B
Total Hardness	**226**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:00		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:00	7440-62-2	
Zinc	**5.0**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:00	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.0**	NTU	1.0	0.44	1		10/21/08 14:10		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	10.0	3.2	1		10/29/08 15:31		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:31		
Alkalinity, Total as CaCO3	**106**	mg/L	10.0	3.2	1		10/29/08 15:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**434**	mg/L	20.0	12.0	1		10/23/08 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/23/08 10:18		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 60' **Lab ID: 4010516003** Collected: 10/20/08 11:50 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		10/22/08 09:48	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/22/08 16:53	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.2**	mg/L	5.0	1.1	1		10/22/08 09:48	16887-00-6	
Fluoride	**0.30J**	mg/L	0.50	0.059	1		10/22/08 09:48	16984-48-8	
Sulfate	**143**	mg/L	20.0	2.6	5		10/23/08 20:54	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0078J**	mg/L	0.020	0.0060	1		10/29/08 14:33	57-12-5	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.2**	mg/L	2.0	1.4	1		11/03/08 08:21	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.7**	mg/L	2.0	1.4	1		10/31/08 10:06		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 120' **Lab ID: 4010516004** Collected: 10/20/08 14:10 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.290J**	ng/L	0.50	0.16	1	10/21/08 12:15	10/24/08 12:53	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:06	7429-90-5	
Antimony	**29.6**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:06	7440-36-0	
Arsenic	**0.36J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:06	7440-38-2	
Barium	**9.2**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:06	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:06	7440-41-7	
Boron	**138**	ug/L	5.0	1.1	1	10/24/08 08:00	11/07/08 18:44	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:06	7440-43-9	
Calcium	**53000**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:06	7440-70-2	
Chromium	**0.90J**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:06	7440-47-3	
Cobalt	**17.0**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:06	7440-48-4	
Copper	**2.8**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:06	7440-50-8	
Iron	**65.9J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:06	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:06	7439-92-1	
Lithium	**3.7**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:06	7439-93-2	
Magnesium	**28800**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:06	7439-95-4	
Manganese	**1560**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:06	7439-96-5	
Molybdenum	**45.4**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:06	7439-98-7	
Nickel	**212**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:06	7440-02-0	
Potassium	**16800**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:06	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:06	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:06	7440-22-4	
Sodium	**23800**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:06	7440-23-5	
Thallium	**0.14J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:06	7440-28-0	B
Total Hardness	**251**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:06		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:06	7440-62-2	
Zinc	**4.7J**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:06	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.0**	NTU	1.0	0.44	1		10/21/08 14:10		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	10.0	3.2	1		10/29/08 15:31		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:31		
Alkalinity, Total as CaCO3	**134**	mg/L	10.0	3.2	1		10/29/08 15:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**412**	mg/L	20.0	12.0	1		10/23/08 15:01		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/23/08 10:18		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 120' **Lab ID: 4010516004** Collected: 10/20/08 14:10 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.3**	mg/L	0.40	0.085	1		10/22/08 10:02	14797-55-8	
Nitrite as N	**0.070J**	mg/L	0.10	0.036	1		10/22/08 17:07	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**20.4**	mg/L	5.0	1.1	1		10/22/08 10:02	16887-00-6	
Fluoride	**0.37J**	mg/L	0.50	0.059	1		10/22/08 10:02	16984-48-8	
Sulfate	**171**	mg/L	20.0	2.6	5		10/23/08 21:09	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.010J**	mg/L	0.020	0.0060	1		10/29/08 14:34	57-12-5	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.3**	mg/L	2.0	1.4	1		11/03/08 08:26	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.6**	mg/L	2.0	1.4	1		10/31/08 10:14		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 175' **Lab ID: 4010516005** Collected: 10/20/08 15:05 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.354J**	ng/L	0.50	0.16	1	10/21/08 12:15	10/24/08 13:11	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:12	7429-90-5	
Antimony	**37.8**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:12	7440-36-0	
Arsenic	**0.45J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:12	7440-38-2	
Barium	**12.9**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:12	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:12	7440-41-7	
Boron	**159**	ug/L	5.0	1.1	1	10/24/08 08:00	11/07/08 18:50	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:12	7440-43-9	
Calcium	**53200**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:12	7440-70-2	
Chromium	**<0.30**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:12	7440-47-3	
Cobalt	**23.8**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:12	7440-48-4	
Copper	**3.2**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:12	7440-50-8	
Iron	**61.0J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:12	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:12	7439-92-1	
Lithium	**3.8**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:12	7439-93-2	
Magnesium	**30100**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:12	7439-95-4	
Manganese	**2490**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:12	7439-96-5	
Molybdenum	**65.8**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:12	7439-98-7	
Nickel	**296**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:12	7440-02-0	
Potassium	**21100**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:12	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:12	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:12	7440-22-4	
Sodium	**29200**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:12	7440-23-5	
Thallium	**0.11J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:12	7440-28-0	B
Total Hardness	**257**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:12		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:12	7440-62-2	
Zinc	**4.7J**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:12	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.0**	NTU	1.0	0.44	1		10/21/08 14:10		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**160**	mg/L	10.0	3.2	1		10/29/08 15:31		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:31		
Alkalinity, Total as CaCO3	**160**	mg/L	10.0	3.2	1		10/29/08 15:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**446**	mg/L	20.0	12.0	1		10/23/08 15:01		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/23/08 10:18		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: HPL-003 175' **Lab ID: 4010516005** Collected: 10/20/08 15:05 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.2**	mg/L	0.40	0.085	1		10/22/08 10:16	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/22/08 17:21	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**24.8**	mg/L	5.0	1.1	1		10/22/08 10:16	16887-00-6	
Fluoride	**0.40J**	mg/L	0.50	0.059	1		10/22/08 10:16	16984-48-8	
Sulfate	**181**	mg/L	20.0	2.6	5		10/23/08 21:23	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.010J**	mg/L	0.020	0.0060	1		10/29/08 14:35	57-12-5	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**17.4J**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.5**	mg/L	2.0	1.4	1		11/03/08 08:39	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.9**	mg/L	2.0	1.4	1		10/31/08 10:20		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: DUP-004 **Lab ID: 4010516006** Collected: 10/20/08 00:00 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.266J**	ng/L	0.50	0.16	1	10/21/08 12:15	10/24/08 13:16	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**4.7J**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:19	7429-90-5	
Antimony	**8.3**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:19	7440-36-0	
Arsenic	**0.24J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:19	7440-38-2	
Barium	**7.9**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:19	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:19	7440-41-7	
Boron	**90.5**	ug/L	5.0	1.1	1	10/24/08 08:00	11/07/08 18:56	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:19	7440-43-9	
Calcium	**50500**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:19	7440-70-2	
Chromium	**<0.30**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:19	7440-47-3	
Cobalt	**4.7**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:19	7440-48-4	
Copper	**2.0**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:19	7440-50-8	
Iron	**70.0J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:19	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:19	7439-92-1	
Lithium	**3.5**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:19	7439-93-2	
Magnesium	**24800**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:19	7439-95-4	
Manganese	**341**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:19	7439-96-5	
Molybdenum	**12.2**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:19	7439-98-7	
Nickel	**24.4**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:19	7440-02-0	
Potassium	**8840**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:19	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:19	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:19	7440-22-4	
Sodium	**13800**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:19	7440-23-5	
Thallium	**0.071J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:19	7440-28-0	B
Total Hardness	**228**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:19		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:19	7440-62-2	
Zinc	**4.2J**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:19	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.95J**	NTU	1.0	0.44	1		10/21/08 14:10		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	10.0	3.2	1		10/29/08 15:32		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:32		
Alkalinity, Total as CaCO3	**106**	mg/L	10.0	3.2	1		10/29/08 15:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**342**	mg/L	20.0	12.0	1		10/23/08 15:01		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/23/08 10:18		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: DUP-004 **Lab ID: 4010516006** Collected: 10/20/08 00:00 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.1**	mg/L	0.40	0.085	1		10/22/08 10:30	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/22/08 17:36	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.3**	mg/L	5.0	1.1	1		10/22/08 10:30	16887-00-6	
Fluoride	**0.30J**	mg/L	0.50	0.059	1		10/22/08 10:30	16984-48-8	
Sulfate	**145**	mg/L	20.0	2.6	5		10/23/08 21:37	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/29/08 14:36	57-12-5	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.3**	mg/L	2.0	1.4	1		11/03/08 08:44	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.5**	mg/L	2.0	1.4	1		10/31/08 10:25		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: FBK-004 **Lab ID: 4010516007** Collected: 10/20/08 10:30 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.173J**	ng/L	0.50	0.16	1	10/24/08 06:00	10/27/08 09:44	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:24	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:24	7440-36-0	
Arsenic	**<0.17**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:24	7440-38-2	
Barium	**<0.17**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:24	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:24	7440-41-7	
Boron	**1.4J**	ug/L	5.0	1.1	1	10/24/08 08:00	11/07/08 19:02	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:24	7440-43-9	
Calcium	**<62.6**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:24	7440-70-2	
Chromium	**<0.30**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:24	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:24	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:24	7440-50-8	
Iron	**6.5J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:24	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:24	7439-92-1	
Lithium	**<0.13**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:24	7439-93-2	
Magnesium	**8.7J**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:24	7439-95-4	
Manganese	**0.38J**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:24	7439-96-5	
Molybdenum	**<0.064**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:24	7439-98-7	
Nickel	**0.49J**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:24	7440-02-0	
Potassium	**<78.3**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:24	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:24	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:24	7440-22-4	
Sodium	**<51.2**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:24	7440-23-5	
Thallium	**0.047J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:24	7440-28-0	B
Total Hardness	**0.15J**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:24		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:24	7440-62-2	
Zinc	**<1.7**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:24	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		10/21/08 14:10		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:32		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:32		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		10/29/08 15:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		10/23/08 15:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/23/08 10:18		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Sample: FBK-004 **Lab ID: 4010516007** Collected: 10/20/08 10:30 Received: 10/21/08 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/22/08 10:44	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/22/08 18:18	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**<1.1**	mg/L	5.0	1.1	1		10/22/08 10:44	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		10/22/08 10:44	16984-48-8	
Sulfate	**1.8J**	mg/L	4.0	0.51	1		10/22/08 10:44	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		10/29/08 14:42	57-12-5	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		11/03/08 08:55	7440-44-0	
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		10/31/08 10:36		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WETA/2581 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 92408 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	10/22/08 06:58	
Nitrite as N	mg/L	<0.036	0.10	10/22/08 15:28	

LABORATORY CONTROL SAMPLE: 92409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	99	90-110	
Nitrite as N	mg/L	.8	0.76	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92410 92411

Parameter	Units	4010516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.6	1.6	1.6	3.2	3.2	99	101	90-110	.9	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.71	0.70	89	88	90-110	1	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92412 92413

Parameter	Units	4010516002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.6	1.6	1.6	3.1	3.2	95	102	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WETA/2582 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 92419 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.1	5.0	10/22/08 06:58	
Fluoride	mg/L	<0.059	0.50	10/22/08 06:58	
Sulfate	mg/L	<0.51	4.0	10/22/08 06:58	

LABORATORY CONTROL SAMPLE: 92420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.6	98	90-110	
Fluoride	mg/L	2	2.1	106	90-110	
Sulfate	mg/L	16	15.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92421 92422

Parameter	Units	4010516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.1	20	20	30.8	31.1	98	100	90-110	1	20	
Fluoride	mg/L	0.29J	2	2	2.1	2.2	92	94	90-110	2	20	
Sulfate	mg/L	132	80	80	218	216	106	105	90-110	.5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92423 92424

Parameter	Units	4010516002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.1	20	20	29.7	31.3	93	101	90-110	5	20	
Fluoride	mg/L	0.30J	2	2	2.0	2.2	88	95	90-110	7	20	M0
Sulfate	mg/L	135	80	80	215	218	100	104	90-110	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WET/2478 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 92540 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<0.44	1.0	10/21/08 14:10	

LABORATORY CONTROL SAMPLE: 92541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	525	524	100		

SAMPLE DUPLICATE: 92542

Parameter	Units	4010516006 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	0.95J	1.1		5	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WET/2482 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 92684 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	10/23/08 10:18	

LABORATORY CONTROL SAMPLE: 92685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	88	72.0	82	80-120	

SAMPLE DUPLICATE: 92686

Parameter	Units	4010488001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	17.6	23.2	27	10	R1

SAMPLE DUPLICATE: 92687

Parameter	Units	4010503001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	160	160	0	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WET/2492 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 93091 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	10/23/08 14:58	

LABORATORY CONTROL SAMPLE: 93092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	202	220	109	80-120	

SAMPLE DUPLICATE: 93093

Parameter	Units	4010516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	320	330	3	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WET/2493 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 93098 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<2.3	5.0	10/23/08 09:00	

LABORATORY CONTROL SAMPLE: 93099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	45.2	48.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93100 93101

Parameter	Units	4010538001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.3	45.2	45.2	46.8	46.4	101	100	80-120	.9	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: MPRP/1899 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 93372 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<4.5	250	11/03/08 18:37	
Antimony	ug/L	<0.071	1.0	11/03/08 18:37	
Arsenic	ug/L	<0.17	1.0	11/03/08 18:37	
Barium	ug/L	<0.17	1.0	11/03/08 18:37	
Beryllium	ug/L	<0.41	1.0	11/03/08 18:37	
Boron	ug/L	1.5J	5.0	11/04/08 19:14	
Cadmium	ug/L	<0.087	1.0	11/03/08 18:37	
Calcium	ug/L	<62.6	250	11/03/08 18:37	
Chromium	ug/L	<0.30	1.0	11/03/08 18:37	
Cobalt	ug/L	<0.077	1.0	11/03/08 18:37	
Copper	ug/L	<0.50	1.0	11/03/08 18:37	
Iron	ug/L	<5.0	250	11/03/08 18:37	
Lead	ug/L	<0.50	1.0	11/03/08 18:37	
Lithium	ug/L	<0.13	1.0	11/03/08 18:37	
Magnesium	ug/L	<6.1	250	11/03/08 18:37	
Manganese	ug/L	<0.24	1.0	11/03/08 18:37	
Molybdenum	ug/L	0.16J	1.0	11/03/08 18:37	
Nickel	ug/L	<0.15	1.0	11/03/08 18:37	
Potassium	ug/L	<78.3	250	11/03/08 18:37	
Selenium	ug/L	<0.25	1.0	11/03/08 18:37	
Silver	ug/L	<0.25	0.50	11/03/08 18:37	
Sodium	ug/L	<51.2	250	11/03/08 18:37	
Thallium	ug/L	0.069J	1.0	11/03/08 18:37	
Vanadium	ug/L	<0.45	1.0	11/03/08 18:37	
Zinc	ug/L	<1.7	5.0	11/03/08 18:37	

LABORATORY CONTROL SAMPLE: 93373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4700	94	75-125	
Antimony	ug/L	500	490	98	75-125	
Arsenic	ug/L	500	492	98	75-125	
Barium	ug/L	500	482	96	75-125	
Beryllium	ug/L	500	496	99	75-125	
Boron	ug/L	500	470	94	75-125	
Cadmium	ug/L	500	505	101	75-125	
Calcium	ug/L	5000	5110	102	75-125	
Chromium	ug/L	500	495	99	75-125	
Cobalt	ug/L	500	485	97	75-125	
Copper	ug/L	500	501	100	75-125	
Iron	ug/L	5000	4750	95	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

LABORATORY CONTROL SAMPLE: 93373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	460	92	75-125	
Lithium	ug/L	500	505	101	75-125	
Magnesium	ug/L	5000	4810	96	75-125	
Manganese	ug/L	500	480	96	75-125	
Molybdenum	ug/L	500	481	96	75-125	
Nickel	ug/L	500	503	101	75-125	
Potassium	ug/L	5000	4720	94	75-125	
Selenium	ug/L	500	507	101	75-125	
Silver	ug/L	250	251	100	75-125	
Sodium	ug/L	5000	4810	96	75-125	
Thallium	ug/L	500	458	92	75-125	
Vanadium	ug/L	500	485	97	75-125	
Zinc	ug/L	500	503	101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93374 93375

Parameter	Units	4010516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	10.5J	5000	5000	4360	4450	87	89	75-125	2	20	
Antimony	ug/L	6.8	500	500	471	480	93	95	75-125	2	20	
Arsenic	ug/L	1.2	500	500	472	480	94	96	75-125	2	20	
Barium	ug/L	7.8	500	500	463	471	91	93	75-125	2	20	
Beryllium	ug/L	<0.41	500	500	460	466	92	93	75-125	1	20	
Boron	ug/L	81.1	500	500	510	524	86	89	75-125	3	20	
Cadmium	ug/L	0.094J	500	500	475	486	95	97	75-125	2	20	
Calcium	ug/L	49800	5000	5000	50300	52000	11	45	75-125	3	20	P6
Chromium	ug/L	3.1	500	500	465	475	92	94	75-125	2	20	
Cobalt	ug/L	3.3	500	500	457	467	91	93	75-125	2	20	
Copper	ug/L	1.7	500	500	460	471	92	94	75-125	2	20	
Iron	ug/L	271	5000	5000	4700	4800	89	91	75-125	2	20	
Lead	ug/L	<0.50	500	500	440	450	88	90	75-125	2	20	
Lithium	ug/L	3.5	500	500	475	489	94	97	75-125	3	20	
Magnesium	ug/L	24100	5000	5000	26400	27100	47	60	75-125	2	20	P6
Manganese	ug/L	62.2	500	500	510	520	90	92	75-125	2	20	
Molybdenum	ug/L	11.3	500	500	466	478	91	93	75-125	3	20	
Nickel	ug/L	9.5	500	500	472	481	92	94	75-125	2	20	
Potassium	ug/L	7990	5000	5000	11700	11900	74	79	75-125	2	20	M0
Selenium	ug/L	0.50J	500	500	477	487	95	97	75-125	2	20	
Silver	ug/L	<0.25	250	250	230	236	92	94	75-125	3	20	
Sodium	ug/L	12500	5000	5000	15900	16300	69	76	75-125	2	20	M0
Thallium	ug/L	0.40J	500	500	439	451	88	90	75-125	3	20	
Vanadium	ug/L	<0.45	500	500	459	468	92	93	75-125	2	20	
Zinc	ug/L	3.7J	500	500	472	482	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: CVFS/1288 Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006

METHOD BLANK: 93717 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.362J	0.50	10/24/08 09:41	

METHOD BLANK: 93718 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.375J	0.50	10/24/08 10:11	

METHOD BLANK: 93719 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.446J	0.50	10/24/08 10:20	

LABORATORY CONTROL SAMPLE & LCSD: 93720 93721

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.25	5.12	105	102	79-121	2	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93722 93723

Parameter	Units	4010409001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	0.605	2.5	2.5	3.36	3.24	110	105	75-125	4	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93724 93725

Parameter	Units	4010409004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	112	400	400	525	483	103	93	75-125	8	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: CVFS/1290 | Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E | Analysis Description: 1631E Mercury
Associated Lab Samples: 4010516007

METHOD BLANK: 94178 | Matrix: Water
Associated Lab Samples: 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.455J	0.50	10/27/08 07:05	

METHOD BLANK: 94179 | Matrix: Water
Associated Lab Samples: 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.380J	0.50	10/27/08 06:17	

METHOD BLANK: 94180 | Matrix: Water
Associated Lab Samples: 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.492J	0.50	10/27/08 07:10	

LABORATORY CONTROL SAMPLE & LCSD: 94181 94182

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.23	4.94	105	99	79-121	6	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94183 94184

Parameter	Units	4010627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	5.06	20	20	28.5	27.1	117	110	75-125	5	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94185 94186

Parameter	Units	9230459002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	2.50	10	10	12.5	12.3	100	98	75-125	2	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WETA/2639 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 94973 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	10/31/08 09:31	

LABORATORY CONTROL SAMPLE: 94974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	112	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94975 94976

Parameter	Units	4010516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	3.6	100	100	129	125	125	121	80-120	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94977 94978

Parameter	Units	4010576001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<1.4	100	100	120	120	118	119	80-120	.4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WETA/2640 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 94979 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0060	0.020	10/29/08 14:12	

LABORATORY CONTROL SAMPLE: 94980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94981 94982

Parameter	Units	4010518001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.016J	.1	.1	0.12	0.12	107	108	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94983 94984

Parameter	Units	4010516006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	105	107	90-110	1	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WET/2532 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 95309 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	10/29/08 15:22	

LABORATORY CONTROL SAMPLE: 95310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	503	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 95311 95312

Parameter	Units	4010409001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	108	500	500	600	605	98	99	80-120	.7	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WETA/2654 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 95703 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	10/30/08 09:15	

LABORATORY CONTROL SAMPLE: 95704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	498	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 95705 95706

Parameter	Units	4010576003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	13.6J	526	526	540	547	100	101	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 95707 95708

Parameter	Units	4010838001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	202	526	526	637	634	83	82	90-110	.4	10	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WETA/2659
QC Batch Method: EPA 350.1
Associated Lab Samples: 4010516001

Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Distilled

METHOD BLANK: 96033
Matrix: Water
Associated Lab Samples: 4010516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	10/31/08 12:36	

LABORATORY CONTROL SAMPLE: 96034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96035 96036

Parameter	Units	4010516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.2	10.5	101	104	90-110	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

QC Batch: WETA/2664 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

METHOD BLANK: 96522 Matrix: Water
Associated Lab Samples: 4010516001, 4010516002, 4010516003, 4010516004, 4010516005, 4010516006, 4010516007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<1.4	2.0	11/03/08 07:46	

LABORATORY CONTROL SAMPLE: 96523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	97.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96524 96525

Parameter	Units	4010516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	2.4	100	100	107	109	105	107	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96526 96527

Parameter	Units	4010553001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.4J	100	100	105	108	104	107	80-120	3	20	

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QUALIFIERS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the recognized method holding time.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
SD	The serial dilution and the original analysis did not agree within ±10%. The concentration is estimated due to a suspected chemical or physical interference.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010516001	HPL-003 3'	EPA 300.0	WETA/2581		
4010516002	HPL-003 15'	EPA 300.0	WETA/2581		
4010516003	HPL-003 60'	EPA 300.0	WETA/2581		
4010516004	HPL-003 120'	EPA 300.0	WETA/2581		
4010516005	HPL-003 175'	EPA 300.0	WETA/2581		
4010516006	DUP-004	EPA 300.0	WETA/2581		
4010516007	FBK-004	EPA 300.0	WETA/2581		
4010516001	HPL-003 3'	EPA 300.0	WETA/2582		
4010516002	HPL-003 15'	EPA 300.0	WETA/2582		
4010516003	HPL-003 60'	EPA 300.0	WETA/2582		
4010516004	HPL-003 120'	EPA 300.0	WETA/2582		
4010516005	HPL-003 175'	EPA 300.0	WETA/2582		
4010516006	DUP-004	EPA 300.0	WETA/2582		
4010516007	FBK-004	EPA 300.0	WETA/2582		
4010516001	HPL-003 3'	SM 2130B	WET/2478		
4010516002	HPL-003 15'	SM 2130B	WET/2478		
4010516003	HPL-003 60'	SM 2130B	WET/2478		
4010516004	HPL-003 120'	SM 2130B	WET/2478		
4010516005	HPL-003 175'	SM 2130B	WET/2478		
4010516006	DUP-004	SM 2130B	WET/2478		
4010516007	FBK-004	SM 2130B	WET/2478		
4010516001	HPL-003 3'	SM 2540D	WET/2482		
4010516002	HPL-003 15'	SM 2540D	WET/2482		
4010516003	HPL-003 60'	SM 2540D	WET/2482		
4010516004	HPL-003 120'	SM 2540D	WET/2482		
4010516005	HPL-003 175'	SM 2540D	WET/2482		
4010516006	DUP-004	SM 2540D	WET/2482		
4010516007	FBK-004	SM 2540D	WET/2482		
4010516001	HPL-003 3'	SM 2540C	WET/2492		
4010516002	HPL-003 15'	SM 2540C	WET/2492		
4010516003	HPL-003 60'	SM 2540C	WET/2492		
4010516004	HPL-003 120'	SM 2540C	WET/2492		
4010516005	HPL-003 175'	SM 2540C	WET/2492		
4010516006	DUP-004	SM 2540C	WET/2492		
4010516007	FBK-004	SM 2540C	WET/2492		
4010516001	HPL-003 3'	SM 4500-S F (2000)	WET/2493		
4010516002	HPL-003 15'	SM 4500-S F (2000)	WET/2493		
4010516003	HPL-003 60'	SM 4500-S F (2000)	WET/2493		
4010516004	HPL-003 120'	SM 4500-S F (2000)	WET/2493		
4010516005	HPL-003 175'	SM 4500-S F (2000)	WET/2493		
4010516006	DUP-004	SM 4500-S F (2000)	WET/2493		
4010516007	FBK-004	SM 4500-S F (2000)	WET/2493		
4010516001	HPL-003 3'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010516002	HPL-003 15'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010516003	HPL-003 60'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010516004	HPL-003 120'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010516005	HPL-003 175'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010516006	DUP-004	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010516007	FBK-004	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010516001	HPL-003 3'	EPA 1631E	CVFS/1288	EPA 1631E	CVFS/1289
4010516002	HPL-003 15'	EPA 1631E	CVFS/1288	EPA 1631E	CVFS/1289
4010516003	HPL-003 60'	EPA 1631E	CVFS/1288	EPA 1631E	CVFS/1289
4010516004	HPL-003 120'	EPA 1631E	CVFS/1288	EPA 1631E	CVFS/1289
4010516005	HPL-003 175'	EPA 1631E	CVFS/1288	EPA 1631E	CVFS/1289
4010516006	DUP-004	EPA 1631E	CVFS/1288	EPA 1631E	CVFS/1289
4010516007	FBK-004	EPA 1631E	CVFS/1290	EPA 1631E	CVFS/1291
4010516001	HPL-003 3'	SM 5310C	WETA/2639		
4010516002	HPL-003 15'	SM 5310C	WETA/2639		
4010516003	HPL-003 60'	SM 5310C	WETA/2639		
4010516004	HPL-003 120'	SM 5310C	WETA/2639		
4010516005	HPL-003 175'	SM 5310C	WETA/2639		
4010516006	DUP-004	SM 5310C	WETA/2639		
4010516007	FBK-004	SM 5310C	WETA/2639		
4010516001	HPL-003 3'	EPA 335.4	WETA/2640		
4010516002	HPL-003 15'	EPA 335.4	WETA/2640		
4010516003	HPL-003 60'	EPA 335.4	WETA/2640		
4010516004	HPL-003 120'	EPA 335.4	WETA/2640		
4010516005	HPL-003 175'	EPA 335.4	WETA/2640		
4010516006	DUP-004	EPA 335.4	WETA/2640		
4010516007	FBK-004	EPA 335.4	WETA/2640		
4010516001	HPL-003 3'	SM 2320B	WET/2532		
4010516002	HPL-003 15'	SM 2320B	WET/2532		
4010516003	HPL-003 60'	SM 2320B	WET/2532		
4010516004	HPL-003 120'	SM 2320B	WET/2532		
4010516005	HPL-003 175'	SM 2320B	WET/2532		
4010516006	DUP-004	SM 2320B	WET/2532		
4010516007	FBK-004	SM 2320B	WET/2532		
4010516001	HPL-003 3'	EPA 410.4	WETA/2654		
4010516002	HPL-003 15'	EPA 410.4	WETA/2654		
4010516003	HPL-003 60'	EPA 410.4	WETA/2654		
4010516004	HPL-003 120'	EPA 410.4	WETA/2654		
4010516005	HPL-003 175'	EPA 410.4	WETA/2654		
4010516006	DUP-004	EPA 410.4	WETA/2654		
4010516007	FBK-004	EPA 410.4	WETA/2654		
4010516001	HPL-003 3'	EPA 350.1	WETA/2659		
4010516001	HPL-003 3'	SM 5310C	WETA/2664		
4010516002	HPL-003 15'	SM 5310C	WETA/2664		
4010516003	HPL-003 60'	SM 5310C	WETA/2664		
4010516004	HPL-003 120'	SM 5310C	WETA/2664		
4010516005	HPL-003 175'	SM 5310C	WETA/2664		
4010516006	DUP-004	SM 5310C	WETA/2664		

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010516007	**FBK-004**	SM 5310C	WETA/2664		

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Fax: 724.850.5601

November 3, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Water Characterization
4010516 Foth & Van Dyke
Pace Project No. 08-4417Q

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received and logged in for analysis on October 24, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace Analytical Services, Inc. - Pittsburgh Quality Insurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-850-5600.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-4417Q
CLIENT: 4010516 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0810-1193	HPL-003 3' (40105160	0810-1194	HPL-003 15' (4010516
0810-1195	HPL-003 60' (4010516	0810-1196	HPL-003 120' (401051
0810-1197	HPL-003 175' (401051	0810-1198	DUP-004 (4010516006)
0810-1199	FBK-004 (4010516007)		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-4417Q
Water Characterization; 4010516 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Gross Alpha EPA 900.0 pCi/L Analyzed	Act ± Unc	(MDC)
0810-1193	HPL-003 3' (4010516001)	(10/20/08)	10/31/08	2.40 ± 1.06	(1.44)
0810-1194	HPL-003 15' (4010516002)	(10/20/08)	10/31/08	2.19 ± 1.07	(1.47)
0810-1195	HPL-003 60' (4010516003)	(10/20/08)	10/31/08	1.10 ± 1.15	(1.88)
0810-1196	HPL-003 120' (4010516004)	(10/20/08)	10/31/08	2.07 ± 1.31	(1.97)
0810-1197	HPL-003 175' (4010516005)	(10/20/08)	10/31/08	2.95 ± 1.02	(1.13)
0810-1198	DUP-004 (4010516006)	(10/20/08)	10/31/08	2.17 ± 1.29	(1.90)
0810-1199	FBK-004 (4010516007)	(10/20/08)	11/03/08	-0.449 ± 0.241	(1.25)
0810-1200	Method Blank	(10/24/08)	11/03/08	0.144 ± 0.600	(1.49)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Beta EPA 900.0 pCi/L Act ± Unc	(MDC)
0810-1193	HPL-003 3' (4010516001)	(10/20/08)	10/31/08	4.21 ± 1.09	(1.08)
0810-1194	HPL-003 15' (4010516002)	(10/20/08)	10/31/08	3.20 ± 1.24	(1.69)
0810-1195	HPL-003 60' (4010516003)	(10/20/08)	10/31/08	5.00 ± 1.75	(2.28)
0810-1196	HPL-003 120' (4010516004)	(10/20/08)	10/31/08	10.8 ± 2.40	(1.77)
0810-1197	HPL-003 175' (4010516005)	(10/20/08)	10/31/08	12.9 ± 2.57	(1.13)
0810-1198	DUP-004 (4010516006)	(10/20/08)	10/31/08	5.50 ± 1.52	(1.62)
0810-1199	FBK-004 (4010516007)	(10/20/08)	11/03/08	0.833 ± 0.746	(1.54)
0810-1200	Method Blank	(10/24/08)	11/03/08	-0.145 ± 0.638	(1.59)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Q 11/4/08

Quality Control Sample Performance Assessment

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Test:	Gross Alpha
Analyst:	RMD
Date:	11/3/2008
Worklist:	17349
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.144
M/B Counting Uncertainty:	0.599
MB MDC:	1.487
MB Numerical Performance Indicator:	0.47
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	11/3/2008	11/3/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	47.668	44.931
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.044	4.012
Numerical Performance Indicator:	0.71	-0.39
Percent Recovery:	103.86%	97.89%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS17349
Duplicate Sample I.D.	LCSD17349
Sample Result (pCi/L, g, F):	47.668
Sample Result Counting Uncertainty (pCi/L, g, F):	4.044
Sample Duplicate Result (pCi/L, g, F):	44.931
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.012
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.942
Duplicate RPD:	5.91%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	10/20/2008
Sample I.D.	0810-1073
Sample MS I.D.	0810-1073MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	91.795
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	5.398
Sample Result:	0.570
Sample Result Counting Uncertainty (pCi/L, g, F):	0.590
Sample Matrix Spike Result:	93.497
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	4.637
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.311
MSD Numerical Performance Indicator:	
MS Percent Recovery:	101.23%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

11/4/08

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Gross Beta
Analyst:	RMD
Date:	11/3/2008
Worklist:	17349
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.145
M/B Counting Uncertainty:	0.637
MB MDC:	1.585
MB Numerical Performance Indicator:	-0.45
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	11/3/2008	11/3/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.092	39.092
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.546	19.546
Uncertainty (Calculated):	0.460	0.460
Result (pCi/L, g, F):	18.932	21.217
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.297	2.330
Numerical Performance Indicator:	-0.51	1.38
Percent Recovery:	96.86%	108.55%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS17349
Duplicate Sample I.D.	LCSD17349
Sample Result (pCi/L, g, F):	18.932
Sample Result Counting Uncertainty (pCi/L, g, F):	2.297
Sample Duplicate Result (pCi/L, g, F):	21.217
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.330
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-1.369
Duplicate RPD:	11.38%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	10/20/2008
Sample I.D.	0810-1073
Sample MS I.D.	0810-1073MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.128
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.128
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.920
Sample Result:	0.304
Sample Result Counting Uncertainty (pCi/L, g, F):	0.689
Sample Matrix Spike Result:	36.987
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	2.495
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-1.744
MSD Numerical Performance Indicator:	
MS Percent Recovery:	93.75%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

Chain of Custody

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Workorder: 4010576 **Workorder Name:** HUMBOLDT MILL, MI **Results Requested** 11/5/2008

Report To	Subcontract To
Tod Noltemeyer Pace Analytical Services, Inc. 1241 Bellevue Street, Suite 9 Green Bay, WI 54302 Phone (920)469-2436 Fax (920)469-8827	Pace Analytical Waltz Mill P.O. Box 158 Madison, PA 15663 Phone (724)722-5214

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis												LAB USE ONLY
1	FBK-005	10/21/2008 09:30	4010576001	Water	1						X												
2	HPL-004 3'	10/21/2008 11:00	4010576002	Water	1						X												
3	HPL-004 15'	10/21/2008 11:25	4010576003	Water	1						X												
4	HPL-004 60'	10/21/2008 12:35	4010576004	Water	1						X												
5	HPL-004 120'	10/21/2008 14:05	4010576005	Water	1						X												
6	HPL-004 175'	10/21/2008 15:10	4010576006	Water	1						X												
7	DUP-005	10/21/2008 00:00	4010576007	Water	1						X												

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				
4				
5				

Comments

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Pace Analytical Services, Inc.
1638 Roseytown Rd
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Greensburg, PA 15601
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Fax: 724.850.5601

November 19, 2008

Mr. Todd Noltemeyer
Pace Analytical Services, Inc
Green Bay Laboratory
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted to Pace Analytical by Pace Analytical Services, Inc. The samples were received on November 13, 2008. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. Parameters printed in italics represent Non-NELAC accredited parameters. Please reference Pace project number 08-8542 when inquiring about this report.

Client Site: Green Bay Laboratory
Client Ref.: 4010516 (FOTH)

Pace Sample Identification	Client Sample Identification
0811-1977	401056002 (HPL-003 15')
0811-1978	401056003 (HPL-003 60')
0811-1979	401056004 (HPL-003 120')

Pace Sample Identification	Client Sample Identification
0811-1980	401056005 (HPL-003 175')
0811-1981	401056006 (DUP-004)
0811-1982	401056007 (FBK-004)

General Comments: Cooler temperature 3.9 ° C upon receipt. Ice was present.

Please call me if you have any questions regarding the information contained within this report.

Sincerely,

Rachel D. Christner

Rachel D. Christner
Project Manager

RDC: tew

Enclosures

REPORT OF LABORATORY ANALYSIS

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nelac

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Greensburg, PA 15601
Phone: 724.850.5600
Fax: 724.850.5601

Mr. Todd Noltemeyer
Pace Analytical Services, Inc
Green Bay Laboratory
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

Client Site: Green Bay Laboratory
Client Ref.: 4010516 (FOTH)

Lab Project ID: **08-8542**
Lab Sample ID: **0811-1977**
Client Sample ID: 401056002 (HPL-003 15')
Sample Matrix: Aqueous

Date Sampled: 10/20/2008
Date Received: 11/13/2008

General Chemistry

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Ammonia	350.1[1]	0.13	0.10	mg/l	DJT	11/18/2008	0079179-1	<0.10

[1] U.S. Environmental Protection Agency, 1983, Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Mr. Todd Noltemeyer
Pace Analytical Services, Inc
Green Bay Laboratory
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

Client Site: Green Bay Laboratory
Client Ref.: 4010516 (FOTH)

Lab Project ID: **08-8542**
Lab Sample ID: **0811-1978**
Client Sample ID: 401056003 (HPL-003 60')
Sample Matrix: Aqueous

Date Sampled: 10/20/2008
Date Received: 11/13/2008

General Chemistry

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Ammonia	350.1[1]	0.17	0.10	mg/l	DJT	11/18/2008	0079179-1	<0.10

[1] U.S. Environmental Protection Agency, 1983, Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio.

Sample Comments: Results reported on an as received basis.

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Mr. Todd Noltemeyer
Pace Analytical Services, Inc
Green Bay Laboratory
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

Lab Project ID: **08-8542**
Lab Sample ID: **0811-1979**
Client Sample ID: 401056004 (HPL-003 120')
Sample Matrix: Aqueous

Date Sampled: 10/20/2008
Date Received: 11/13/2008

Client Site: Green Bay Laboratory
Client Ref.: 4010516 (FOTH)

General Chemistry

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Ammonia	350.1[1]	2.2	0.10	mg/l	DJT	11/18/2008	0079179-1	<0.10

[1] U.S. Environmental Protection Agency, 1983, Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio.

Sample Comments: Results reported on an as received basis.

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Mr. Todd Noltemeyer
Pace Analytical Services, Inc
Green Bay Laboratory
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

Lab Project ID: **08-8542**
Lab Sample ID: **0811-1980**
Client Sample ID: 401056005 (HPL-003 175')
Sample Matrix: Aqueous

Date Sampled: 10/20/2008
Date Received: 11/13/2008

Client Site: Green Bay Laboratory
Client Ref.: 4010516 (FOTH)

General Chemistry

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Ammonia	350.1[1]	4.4	0.10	mg/l	DJT	11/18/2008	0079179-1	<0.10

[1] U.S. Environmental Protection Agency, 1983, Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio.

Sample Comments: Results reported on an as received basis.

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Mr. Todd Noltemeyer
Pace Analytical Services, Inc
Green Bay Laboratory
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

Client Site: Green Bay Laboratory
Client Ref.: 4010516 (FOTH)

Lab Project ID: **08-8542**
Lab Sample ID: **0811-1981**
Client Sample ID: 401056006 (DUP-004)
Sample Matrix: Aqueous

Date Sampled: 10/20/2008
Date Received: 11/13/2008

General Chemistry

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Ammonia	350.1[1]	<0.10	0.10	mg/l	DJT	11/18/2008	0079179-1	<0.10

[1] U.S. Environmental Protection Agency, 1983, Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio.

Sample Comments: Results reported on an as received basis.

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Mr. Todd Noltemeyer
Pace Analytical Services, Inc
Green Bay Laboratory
1241 Bellevue Street
Suite 9
Green Bay, WI 54302

Lab Project ID: **08-8542**
Lab Sample ID: **0811-1982**
Client Sample ID: 401056007 (FBK-004)
Sample Matrix: Aqueous

Date Sampled: 10/20/2008
Date Received: 11/13/2008

Client Site: Green Bay Laboratory
Client Ref.: 4010516 (FOTH)

General Chemistry

Test	Method	Result	Reporting Limit	Units	Analyst	Analysis Date	Method Blank ID	Blank Result
Ammonia	350.1[1]	<0.10	0.10	mg/l	DJT	11/18/2008	0079179-1	<0.10

[1] U.S. Environmental Protection Agency, 1983, Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio.

Sample Comments: Results reported on an as received basis.

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Pace Analytical

Client Name: North Jackson

Project # 4010516

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 5° 4° 4° 5° **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature _____ **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Comments: AB

Date and Initials of person examining contents: 10/21/08

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Nitrate, Turbidity
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed ✓ / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AH **Date:** 10/21/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALL-C-003-REV.3 (11Sep2005)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20081020

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	[redacted]

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ZnAc, NaOH	Analysis Test Y/N	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			N	N	N	N	N	N	N	Y	N					
1	HPL-003 3' SW 001	WT	G			10/20/08	1120	10.7	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	1-1L HDPE, 4-250mL CLEAR, 2-125mL AMBER, 4-500mL CLEAR
2	HPL-003 15' SW 002	WT	G			10/20/08	1235	10.7	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
3	HPL-003 60' SW 003	WT	G			10/20/08	1450	9.7	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
4	HPL-003 120' SW 004	WT	G			10/20/08	1410	5.3	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
5	HPL-003 175' SW 005	WT	G			10/20/08	1505	5.3	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
6	DUP-004 SW 006	WT	G			10/20/08	—	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
7	FBK-004 SW 007	WT	G			10/20/08	1030	-	11	4	3	2		1			1		1	1	1	1	2	1	1	1	2				N	
8																																
9																																
10																																
11																																
12																																

4010516

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] NJC									
	Fedex	10/21/08	1000	[signature]	11/21/08	1000	4.5	Y	Y	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

FED EX 7911 6841 4927
7901 1586 7299
7911 6941 4916
7911 6841 4950

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CURT SHEFFIELD / ANDY MARACINI

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/20/08

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Batch No. 4010576

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

November 10, 2008

JANIS KESY
FOTH INFRASTRUCTURE & ENVIRONMENT
2737 SOUTH RIDGE ROAD
Green Bay, WI 54304

RE: Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Dear JANIS KESY:
Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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(920)469-2436

CERTIFICATIONS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4010576001	**FBK-005**	Water	10/21/08 09:30	10/22/08 10:05
4010576002	**HPL-004 3'**	Water	10/21/08 11:00	10/22/08 10:05
4010576003	**HPL-004 15'**	Water	10/21/08 11:25	10/22/08 10:05
4010576004	**HPL-004 60'**	Water	10/21/08 12:35	10/22/08 10:05
4010576005	**HPL-004 120'**	Water	10/21/08 14:05	10/22/08 10:05
4010576006	**HPL-004 175'**	Water	10/21/08 15:10	10/22/08 10:05
4010576007	**DUP-005**	Water	10/21/08 00:00	10/22/08 10:05

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4010576001	**FBK-005**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010576002	**HPL-004 3'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010576003	**HPL-004 15'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010576004	**HPL-004 60'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010576005	**HPL-004 120'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010576006	**HPL-004 175'**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G
4010576007	**DUP-005**	EPA 1631E	GMW	1	PASI-G
		EPA 300.0	DDY	5	PASI-G
		EPA 335.4	DAW	1	PASI-G
		EPA 350.1	DAW	1	PASI-G
		EPA 410.4	DEY	1	PASI-G
		EPA 6020	DS1	26	PASI-G
		SM 2130B	RRS	1	PASI-G
		SM 2320B	RRS	3	PASI-G
		SM 2540C	RRS	1	PASI-G
		SM 2540D	RRS	1	PASI-G
		SM 4500-S F (2000)	DEY	1	PASI-G
		SM 5310C	AMT	1	PASI-G
		SM 5310C	MY	1	PASI-G

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: EPA 1631E
Description: 1631E Mercury, Low Level
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for EPA 1631E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 1631E with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: CVFS/1294

1j: Control Limits for MS/MSD recovery is 71%-125% for samples not collected in Wisconsin. MSD passed at 73%

- MSD (Lab ID: 96272)
  - Mercury

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/1899

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010516001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 93374)
  - Potassium
  - Sodium

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **SM 2130B**
Description: 2130B Turbidity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for SM 2130B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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nelac

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(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/2499

R1: RPD value was outside control limits.

- DUP (Lab ID: 93391)
  - Total Suspended Solids

Additional Comments:

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nelac

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **SM 4500-S F (2000)**
Description: 4500S2F Sulfide, Iodometric
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for SM 4500-S F (2000). All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- DUP-005 (Lab ID: 4010576007)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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(920)469-2436

PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2594

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010576002,4010576003

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 92994)
  - Fluoride
- MS (Lab ID: 92996)
  - Fluoride
- MSD (Lab ID: 92995)
  - Fluoride
- MSD (Lab ID: 92997)
  - Fluoride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **EPA 335.4**
Description: 335.4 Cyanide, Total
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for EPA 335.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2671

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010545007,4010576004

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 96736)
  - Cyanide
- MSD (Lab ID: 96737)
  - Cyanide

QC Batch: WETA/2681

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010632003,4010836005

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 96967)
  - Cyanide
- MSD (Lab ID: 96968)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **EPA 350.1**
Description: 350.1 Ammonia, Distilled
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2660

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010632001,409886012

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 96044)
  - Nitrogen, Ammonia

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **EPA 410.4**
Description: 410.4 COD
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2654

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010576003,4010838001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 95707)
  - Chemical Oxygen Demand
- MSD (Lab ID: 95708)
  - Chemical Oxygen Demand

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **SM 5310C**
Description: 5310C Dissolved Organic Carbon
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2639

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010516001,4010576001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 94975)
  - Dissolved Organic Carbon
- MSD (Lab ID: 94976)
  - Dissolved Organic Carbon

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Method: **SM 5310C**
Description: 5310C TOC
Client: FOTH INFRASTRUCTURE & ENVIRONMENT
Date: November 10, 2008

General Information:
7 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: FBK-005 **Lab ID: 4010576001** Collected: 10/21/08 09:30 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**<0.16**	ng/L	0.50	0.16	1	10/24/08 11:15	10/31/08 07:54	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:30	7429-90-5	
Antimony	**<0.071**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:30	7440-36-0	
Arsenic	**<0.17**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:30	7440-38-2	
Barium	**<0.17**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:30	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:30	7440-41-7	
Boron	**1.1J**	ug/L	5.0	1.1	1	10/24/08 08:00	11/07/08 19:08	7440-42-8	B
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:30	7440-43-9	
Calcium	**<62.6**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:30	7440-70-2	
Chromium	**0.38J**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:30	7440-47-3	
Cobalt	**<0.077**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:30	7440-48-4	
Copper	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:30	7440-50-8	
Iron	**10.1J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:30	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:30	7439-92-1	
Lithium	**<0.13**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:30	7439-93-2	
Magnesium	**<6.1**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:30	7439-95-4	
Manganese	**0.36J**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:30	7439-96-5	
Molybdenum	**<0.064**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:30	7439-98-7	
Nickel	**<0.15**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:30	7440-02-0	
Potassium	**<78.3**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:30	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:30	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:30	7440-22-4	
Sodium	**<51.2**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:30	7440-23-5	
Thallium	**0.035J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:30	7440-28-0	B
Total Hardness	**0.15J**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:30		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:30	7440-62-2	
Zinc	**<1.7**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:30	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**<0.44**	NTU	1.0	0.44	1		10/22/08 14:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/30/08 09:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/30/08 09:57		
Alkalinity, Total as CaCO3	**<3.2**	mg/L	10.0	3.2	1		10/30/08 09:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<12.0**	mg/L	20.0	12.0	1		10/23/08 15:02		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/24/08 09:38		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: FBK-005 **Lab ID: 4010576001** Collected: 10/21/08 09:30 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**<2.3**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.085**	mg/L	0.40	0.085	1		10/23/08 03:17	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/23/08 04:09	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**<1.1**	mg/L	5.0	1.1	1		10/23/08 03:17	16887-00-6	
Fluoride	**<0.059**	mg/L	0.50	0.059	1		10/23/08 03:17	16984-48-8	
Sulfate	**<0.51**	mg/L	4.0	0.51	1		10/23/08 03:17	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		11/03/08 14:49	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/31/08 13:11	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**2.6**	mg/L	2.0	1.4	1		11/04/08 09:37	7440-44-0	Z2
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**<1.4**	mg/L	2.0	1.4	1		10/31/08 10:50		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 3' **Lab ID: 4010576002** Collected: 10/21/08 11:00 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.208J**	ng/L	0.50	0.16	1	10/24/08 11:15	10/27/08 10:02	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:35	7429-90-5	
Antimony	**6.5**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:35	7440-36-0	
Arsenic	**0.77J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:35	7440-38-2	
Barium	**7.5**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:35	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:35	7440-41-7	
Boron	**84.2**	ug/L	5.0	1.1	1	10/24/08 08:00	11/07/08 19:13	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:35	7440-43-9	
Calcium	**48600**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:35	7440-70-2	
Chromium	**0.41J**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:35	7440-47-3	
Cobalt	**2.6**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:35	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:35	7440-50-8	
Iron	**239J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:35	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:35	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:35	7439-93-2	
Magnesium	**23300**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:35	7439-95-4	
Manganese	**62.5**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:35	7439-96-5	
Molybdenum	**10**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:35	7439-98-7	
Nickel	**7.9**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:35	7440-02-0	
Potassium	**7750**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:35	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:35	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:35	7440-22-4	
Sodium	**12100**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:35	7440-23-5	
Thallium	**0.024J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:35	7440-28-0	B
Total Hardness	**217**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:35		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:35	7440-62-2	
Zinc	**9.0**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:35	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.7**	NTU	1.0	0.44	1		10/22/08 14:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**99.4**	mg/L	10.0	3.2	1		10/30/08 09:57		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/30/08 09:57		
Alkalinity, Total as CaCO3	**99.4**	mg/L	10.0	3.2	1		10/30/08 09:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**308**	mg/L	20.0	12.0	1		10/23/08 15:03		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.60J**	mg/L	1.0	0.31	1		10/24/08 09:38		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 3' **Lab ID: 4010576002** Collected: 10/21/08 11:00 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**14.0**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.5**	mg/L	0.40	0.085	1		10/23/08 03:53	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/23/08 04:23	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.2**	mg/L	5.0	1.1	1		10/23/08 03:53	16887-00-6	
Fluoride	**0.29J**	mg/L	0.50	0.059	1		10/23/08 03:53	16984-48-8	M0
Sulfate	**135**	mg/L	20.0	2.6	5		10/24/08 06:07	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		11/03/08 14:50	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/31/08 13:15	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**15.2J**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.4**	mg/L	2.0	1.4	1		11/04/08 09:42	7440-44-0	Z2
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.6**	mg/L	2.0	1.4	1		10/31/08 11:03		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 15' **Lab ID: 4010576003** Collected: 10/21/08 11:25 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.287J**	ng/L	0.50	0.16	1	10/24/08 11:15	10/31/08 08:09	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:41	7429-90-5	
Antimony	**6.5**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:41	7440-36-0	
Arsenic	**0.87J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:41	7440-38-2	
Barium	**7.6**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:41	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:41	7440-41-7	
Boron	**<1.1**	ug/L	5.0	1.1	1	10/24/08 08:00	11/07/08 19:19	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:41	7440-43-9	
Calcium	**49100**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:41	7440-70-2	
Chromium	**1.9**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:41	7440-47-3	
Cobalt	**2.6**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:41	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:41	7440-50-8	
Iron	**269**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:41	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:41	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:41	7439-93-2	
Magnesium	**23300**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:41	7439-95-4	
Manganese	**62.8**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:41	7439-96-5	
Molybdenum	**10.2**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:41	7439-98-7	
Nickel	**8.0**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:41	7440-02-0	
Potassium	**7780**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:41	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:41	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:41	7440-22-4	
Sodium	**12100**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:41	7440-23-5	
Thallium	**0.031J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:41	7440-28-0	B
Total Hardness	**219**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:41		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:41	7440-62-2	
Zinc	**3.0J**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:41	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.8**	NTU	1.0	0.44	1		10/22/08 14:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	10.0	3.2	1		10/30/08 09:58		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/30/08 09:58		
Alkalinity, Total as CaCO3	**104**	mg/L	10.0	3.2	1		10/30/08 09:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**318**	mg/L	20.0	12.0	1		10/23/08 15:04		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.60J**	mg/L	1.0	0.31	1		10/24/08 09:38		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 15' **Lab ID: 4010576003** Collected: 10/21/08 11:25 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**3.2J**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.6**	mg/L	0.40	0.085	1		10/23/08 04:30	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/23/08 05:06	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.2**	mg/L	5.0	1.1	1		10/23/08 04:30	16887-00-6	
Fluoride	**0.29J**	mg/L	0.50	0.059	1		10/23/08 04:30	16984-48-8	M0
Sulfate	**136**	mg/L	20.0	2.6	5		10/24/08 07:18	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		11/03/08 14:51	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/31/08 13:15	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**13.6J**	mg/L	52.6	11.3	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**5.0**	mg/L	2.0	1.4	1		11/04/08 09:59	7440-44-0	Z2
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.3**	mg/L	2.0	1.4	1		10/31/08 11:12		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 60' **Lab ID: 4010576004** Collected: 10/21/08 12:35 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.160J**	ng/L	0.50	0.16	1	10/24/08 11:15	10/31/08 08:17	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 20:59	7429-90-5	
Antimony	**8.3**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 20:59	7440-36-0	
Arsenic	**0.33J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:59	7440-38-2	
Barium	**8.0**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 20:59	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 20:59	7440-41-7	
Boron	**89.9**	ug/L	5.0	1.1	1	10/24/08 08:00	11/03/08 20:59	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 20:59	7440-43-9	
Calcium	**50900**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 20:59	7440-70-2	
Chromium	**<0.30**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 20:59	7440-47-3	
Cobalt	**4.7**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 20:59	7440-48-4	
Copper	**1.8**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:59	7440-50-8	
Iron	**82.4J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 20:59	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 20:59	7439-92-1	
Lithium	**3.4**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 20:59	7439-93-2	
Magnesium	**24800**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 20:59	7439-95-4	
Manganese	**354**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 20:59	7439-96-5	
Molybdenum	**12.3**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 20:59	7439-98-7	
Nickel	**24.4**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 20:59	7440-02-0	
Potassium	**8890**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 20:59	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 20:59	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 20:59	7440-22-4	
Sodium	**13800**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 20:59	7440-23-5	
Thallium	**0.072J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 20:59	7440-28-0	B
Total Hardness	**229**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 20:59		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 20:59	7440-62-2	
Zinc	**3.5J**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 20:59	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.95J**	NTU	1.0	0.44	1		10/22/08 14:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	10.0	3.2	1		10/30/08 09:58		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/30/08 09:58		
Alkalinity, Total as CaCO3	**104**	mg/L	10.0	3.2	1		10/30/08 09:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**354**	mg/L	20.0	12.0	1		10/28/08 10:31		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/24/08 09:38		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 60' **Lab ID: 4010576004** Collected: 10/21/08 12:35 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**2.8J**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.0**	mg/L	0.40	0.085	1		10/23/08 05:07	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/23/08 05:20	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**12.1**	mg/L	5.0	1.1	1		10/23/08 05:07	16887-00-6	
Fluoride	**0.30J**	mg/L	0.50	0.059	1		10/23/08 05:07	16984-48-8	
Sulfate	**145**	mg/L	20.0	2.6	5		10/24/08 08:01	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		11/03/08 14:52	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.1**	mg/L	1.0	0.50	1		10/31/08 13:16	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**<10.8**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**4.3**	mg/L	2.0	1.4	1		11/04/08 10:03	7440-44-0	Z2
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.9**	mg/L	2.0	1.4	1		10/31/08 11:11		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 120' **Lab ID: 4010576005** Collected: 10/21/08 14:05 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**1.00**	ng/L	0.50	0.16	1	10/24/08 11:15	10/31/08 08:23	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 21:04	7429-90-5	
Antimony	**27.0**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 21:04	7440-36-0	
Arsenic	**0.36J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 21:04	7440-38-2	
Barium	**8.9**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 21:04	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 21:04	7440-41-7	
Boron	**132**	ug/L	5.0	1.1	1	10/24/08 08:00	11/03/08 21:04	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 21:04	7440-43-9	
Calcium	**51600**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 21:04	7440-70-2	
Chromium	**0.50J**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 21:04	7440-47-3	
Cobalt	**15.7**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 21:04	7440-48-4	
Copper	**2.8**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 21:04	7440-50-8	
Iron	**60.0J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 21:04	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 21:04	7439-92-1	
Lithium	**3.6**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 21:04	7439-93-2	
Magnesium	**27800**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 21:04	7439-95-4	
Manganese	**1420**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 21:04	7439-96-5	
Molybdenum	**41.8**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 21:04	7439-98-7	
Nickel	**194**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 21:04	7440-02-0	
Potassium	**16000**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 21:04	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 21:04	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 21:04	7440-22-4	
Sodium	**22400**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 21:04	7440-23-5	
Thallium	**0.038J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 21:04	7440-28-0	B
Total Hardness	**243**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 21:04		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 21:04	7440-62-2	
Zinc	**5.8**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 21:04	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.77J**	NTU	1.0	0.44	1		10/22/08 14:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	10.0	3.2	1		10/30/08 09:58		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/30/08 09:58		
Alkalinity, Total as CaCO3	**134**	mg/L	10.0	3.2	1		10/30/08 09:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**426**	mg/L	20.0	12.0	1		10/28/08 10:32		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/24/08 09:38		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 120' **Lab ID: 4010576005** Collected: 10/21/08 14:05 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**15.2**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.2**	mg/L	0.40	0.085	1		10/23/08 05:19	14797-55-8	
Nitrite as N	**0.070J**	mg/L	0.10	0.036	1		10/23/08 05:34	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**19.5**	mg/L	5.0	1.1	1		10/23/08 05:19	16887-00-6	
Fluoride	**0.36J**	mg/L	0.50	0.059	1		10/23/08 05:19	16984-48-8	
Sulfate	**172**	mg/L	20.0	2.6	5		10/24/08 08:15	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**0.0067J**	mg/L	0.020	0.0060	1		11/04/08 13:38	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**47.9**	mg/L	5.0	2.5	5		10/31/08 13:26	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**19.6J**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**4.8**	mg/L	2.0	1.4	1		11/04/08 10:08	7440-44-0	Z2
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.8**	mg/L	2.0	1.4	1		10/31/08 11:18		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 175' **Lab ID: 4010576006** Collected: 10/21/08 15:10 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.308J**	ng/L	0.50	0.16	1	10/24/08 11:15	10/31/08 08:28	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**6.5J**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 21:10	7429-90-5	
Antimony	**38.0**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 21:10	7440-36-0	
Arsenic	**0.45J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 21:10	7440-38-2	
Barium	**12.2**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 21:10	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 21:10	7440-41-7	
Boron	**157**	ug/L	5.0	1.1	1	10/24/08 08:00	11/03/08 21:10	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 21:10	7440-43-9	
Calcium	**53000**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 21:10	7440-70-2	
Chromium	**0.47J**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 21:10	7440-47-3	
Cobalt	**23.7**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 21:10	7440-48-4	
Copper	**3.2**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 21:10	7440-50-8	
Iron	**62.3J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 21:10	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 21:10	7439-92-1	
Lithium	**3.8**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 21:10	7439-93-2	
Magnesium	**30000**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 21:10	7439-95-4	
Manganese	**2500**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 21:10	7439-96-5	
Molybdenum	**65.9**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 21:10	7439-98-7	
Nickel	**297**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 21:10	7440-02-0	
Potassium	**21100**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 21:10	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 21:10	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 21:10	7440-22-4	
Sodium	**29000**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 21:10	7440-23-5	
Thallium	**0.031J**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 21:10	7440-28-0	B
Total Hardness	**256**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 21:10		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 21:10	7440-62-2	
Zinc	**5.1**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 21:10	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**0.96J**	NTU	1.0	0.44	1		10/22/08 14:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**162**	mg/L	10.0	3.2	1		10/30/08 10:00		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/30/08 10:00		
Alkalinity, Total as CaCO3	**162**	mg/L	10.0	3.2	1		10/30/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**448**	mg/L	20.0	12.0	1		10/28/08 10:32		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.31**	mg/L	1.0	0.31	1		10/24/08 09:38		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: HPL-004 175' **Lab ID: 4010576006** Collected: 10/21/08 15:10 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**3.0J**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.1**	mg/L	0.40	0.085	1		10/23/08 05:31	14797-55-8	
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/23/08 05:48	14797-65-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**23.9**	mg/L	5.0	1.1	1		10/23/08 05:31	16887-00-6	
Fluoride	**0.40J**	mg/L	0.50	0.059	1		10/23/08 05:31	16984-48-8	
Sulfate	**181**	mg/L	20.0	2.6	5		10/24/08 08:29	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		11/04/08 13:38	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**4.2**	mg/L	1.0	0.50	1		10/31/08 13:17	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**17.4J**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**6.5**	mg/L	2.0	1.4	1		11/04/08 10:13	7440-44-0	Z2
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**2.5**	mg/L	2.0	1.4	1		10/31/08 12:32		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: DUP-005 **Lab ID: 4010576007** Collected: 10/21/08 00:00 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E								
Mercury	**0.386J**	ng/L	0.50	0.16	1	10/24/08 11:15	10/31/08 08:35	7439-97-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3010								
Aluminum	**<4.5**	ug/L	250	4.5	1	10/24/08 08:00	11/03/08 21:16	7429-90-5	
Antimony	**6.5**	ug/L	1.0	0.071	1	10/24/08 08:00	11/03/08 21:16	7440-36-0	
Arsenic	**0.82J**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 21:16	7440-38-2	
Barium	**7.5**	ug/L	1.0	0.17	1	10/24/08 08:00	11/03/08 21:16	7440-39-3	
Beryllium	**<0.41**	ug/L	1.0	0.41	1	10/24/08 08:00	11/03/08 21:16	7440-41-7	
Boron	**81.4**	ug/L	5.0	1.1	1	10/24/08 08:00	11/03/08 21:16	7440-42-8	
Cadmium	**<0.087**	ug/L	1.0	0.087	1	10/24/08 08:00	11/03/08 21:16	7440-43-9	
Calcium	**48800**	ug/L	250	62.6	1	10/24/08 08:00	11/03/08 21:16	7440-70-2	
Chromium	**0.56J**	ug/L	1.0	0.30	1	10/24/08 08:00	11/03/08 21:16	7440-47-3	
Cobalt	**2.6**	ug/L	1.0	0.077	1	10/24/08 08:00	11/03/08 21:16	7440-48-4	
Copper	**1.3**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 21:16	7440-50-8	
Iron	**239J**	ug/L	250	5.0	1	10/24/08 08:00	11/03/08 21:16	7439-89-6	
Lead	**<0.50**	ug/L	1.0	0.50	1	10/24/08 08:00	11/03/08 21:16	7439-92-1	
Lithium	**3.3**	ug/L	1.0	0.13	1	10/24/08 08:00	11/03/08 21:16	7439-93-2	
Magnesium	**23400**	ug/L	250	6.1	1	10/24/08 08:00	11/03/08 21:16	7439-95-4	
Manganese	**63.3**	ug/L	1.0	0.24	1	10/24/08 08:00	11/03/08 21:16	7439-96-5	
Molybdenum	**10.2**	ug/L	1.0	0.064	1	10/24/08 08:00	11/03/08 21:16	7439-98-7	
Nickel	**8.0**	ug/L	1.0	0.15	1	10/24/08 08:00	11/03/08 21:16	7440-02-0	
Potassium	**7820**	ug/L	250	78.3	1	10/24/08 08:00	11/03/08 21:16	7440-09-7	
Selenium	**<0.25**	ug/L	1.0	0.25	1	10/24/08 08:00	11/03/08 21:16	7782-49-2	
Silver	**<0.25**	ug/L	0.50	0.25	1	10/24/08 08:00	11/03/08 21:16	7440-22-4	
Sodium	**12100**	ug/L	250	51.2	1	10/24/08 08:00	11/03/08 21:16	7440-23-5	
Thallium	**<0.019**	ug/L	1.0	0.019	1	10/24/08 08:00	11/03/08 21:16	7440-28-0	
Total Hardness	**218**	mg/L	5.0	0.15	1	10/24/08 08:00	11/03/08 21:16		
Vanadium	**<0.45**	ug/L	1.0	0.45	1	10/24/08 08:00	11/03/08 21:16	7440-62-2	
Zinc	**4.0J**	ug/L	5.0	1.7	1	10/24/08 08:00	11/03/08 21:16	7440-66-6	
2130B Turbidity	Analytical Method: SM 2130B								
Turbidity	**1.8**	NTU	1.0	0.44	1		10/22/08 14:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	10.0	3.2	1		10/30/08 10:00		
Alkalinity, Carbonate (CaCO3)	**<3.2**	mg/L	10.0	3.2	1		10/30/08 10:00		
Alkalinity, Total as CaCO3	**102**	mg/L	10.0	3.2	1		10/30/08 10:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**328**	mg/L	20.0	12.0	1		10/28/08 10:33		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**0.50J**	mg/L	1.0	0.31	1		10/24/08 09:38		

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ANALYTICAL RESULTS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Sample: DUP-005 **Lab ID: 4010576007** Collected: 10/21/08 00:00 Received: 10/22/08 10:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S F (2000)								
Sulfide	**15.0**	mg/L	5.0	2.3	1		10/23/08 09:00		
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.5**	mg/L	0.40	0.085	1		10/23/08 05:43	14797-55-8	H1
Nitrite as N	**<0.036**	mg/L	0.10	0.036	1		10/23/08 06:31	14797-65-0	H1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**11.1**	mg/L	5.0	1.1	1		10/23/08 05:43	16887-00-6	
Fluoride	**0.29J**	mg/L	0.50	0.059	1		10/23/08 05:43	16984-48-8	
Sulfate	**137**	mg/L	20.0	2.6	5		10/24/08 08:43	14808-79-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4								
Cyanide	**<0.0060**	mg/L	0.020	0.0060	1		11/04/08 13:39	57-12-5	
350.1 Ammonia, Distilled	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	**<0.50**	mg/L	1.0	0.50	1		10/31/08 13:18	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	**17.4J**	mg/L	50.0	10.8	1		10/30/08 09:15		
5310C TOC	Analytical Method: SM 5310C								
Total Organic Carbon	**4.2**	mg/L	2.0	1.4	1		11/04/08 10:38	7440-44-0	Z2
5310C Dissolved Organic Carbon	Analytical Method: SM 5310C								
Dissolved Organic Carbon	**3.0**	mg/L	2.0	1.4	1		10/31/08 12:39		

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WETA/2593 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 92986 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.085	0.40	10/23/08 00:51	
Nitrite as N	mg/L	<0.036	0.10	10/23/08 03:41	

LABORATORY CONTROL SAMPLE: 92987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.5	96	90-110	
Nitrite as N	mg/L	.8	0.76	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92988 92989

Parameter	Units	4010576002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.5	1.6	1.6	3.0	3.0	93	93	90-110	0	20	
Nitrite as N	mg/L	<0.036	.8	.8	0.72	0.73	90	91	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92990 92991

Parameter	Units	4010576003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.6	1.6	1.6	3.0	3.0	92	93	90-110	.3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WETA/2594 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 92992 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	<1.1	5.0	10/23/08 00:51	
Fluoride	mg/L	<0.059	0.50	10/23/08 00:51	
Sulfate	mg/L	<0.51	4.0	10/23/08 00:51	

LABORATORY CONTROL SAMPLE: 92993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.1	95	90-110	
Fluoride	mg/L	2	1.9	96	90-110	
Sulfate	mg/L	16	15.3	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92994 92995

Parameter	Units	4010576002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.2	20	20	30.1	30.1	95	95	90-110	.03	20	
Fluoride	mg/L	0.29J	2	2	2.1	2.1	89	89	90-110	0	20	M0
Sulfate	mg/L	135	80	80	222	222	109	108	90-110	.07	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 92996 92997

Parameter	Units	4010576003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.2	20	20	30.1	30.1	94	95	90-110	.2	20	
Fluoride	mg/L	0.29J	2	2	2.0	2.1	88	89	90-110	1	20	M0
Sulfate	mg/L	136	80	80	223	224	109	110	90-110	.5	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WET/2491 Analysis Method: SM 2130B
QC Batch Method: SM 2130B Analysis Description: 2130B Turbidity
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 93055 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	<0.44	1.0	10/22/08 14:15	

LABORATORY CONTROL SAMPLE: 93056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	525	525	100		

SAMPLE DUPLICATE: 93057

Parameter	Units	4010576007 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	1.8	1.8	.6	5	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WET/2492 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 4010576001, 4010576002, 4010576003

METHOD BLANK: 93091 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	10/23/08 14:58	

LABORATORY CONTROL SAMPLE: 93092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	202	220	109	80-120	

SAMPLE DUPLICATE: 93093

Parameter	Units	4010516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	320	330	3	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WET/2493 Analysis Method: SM 4500-S F (2000)
QC Batch Method: SM 4500-S F (2000) Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 93098 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<2.3	5.0	10/23/08 09:00	

LABORATORY CONTROL SAMPLE: 93099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	45.2	48.0	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93100 93101

Parameter	Units	4010538001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.3	45.2	45.2	46.8	46.4	101	100	80-120	.9	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: MPRP/1899 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 93372 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	<4.5	250	11/03/08 18:37	
Antimony	ug/L	<0.071	1.0	11/03/08 18:37	
Arsenic	ug/L	<0.17	1.0	11/03/08 18:37	
Barium	ug/L	<0.17	1.0	11/03/08 18:37	
Beryllium	ug/L	<0.41	1.0	11/03/08 18:37	
Boron	ug/L	1.5J	5.0	11/04/08 19:14	
Cadmium	ug/L	<0.087	1.0	11/03/08 18:37	
Calcium	ug/L	<62.6	250	11/03/08 18:37	
Chromium	ug/L	<0.30	1.0	11/03/08 18:37	
Cobalt	ug/L	<0.077	1.0	11/03/08 18:37	
Copper	ug/L	<0.50	1.0	11/03/08 18:37	
Iron	ug/L	<5.0	250	11/03/08 18:37	
Lead	ug/L	<0.50	1.0	11/03/08 18:37	
Lithium	ug/L	<0.13	1.0	11/03/08 18:37	
Magnesium	ug/L	<6.1	250	11/03/08 18:37	
Manganese	ug/L	<0.24	1.0	11/03/08 18:37	
Molybdenum	ug/L	0.16J	1.0	11/03/08 18:37	
Nickel	ug/L	<0.15	1.0	11/03/08 18:37	
Potassium	ug/L	<78.3	250	11/03/08 18:37	
Selenium	ug/L	<0.25	1.0	11/03/08 18:37	
Silver	ug/L	<0.25	0.50	11/03/08 18:37	
Sodium	ug/L	<51.2	250	11/03/08 18:37	
Thallium	ug/L	0.069J	1.0	11/03/08 18:37	
Vanadium	ug/L	<0.45	1.0	11/03/08 18:37	
Zinc	ug/L	<1.7	5.0	11/03/08 18:37	

LABORATORY CONTROL SAMPLE: 93373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4700	94	75-125	
Antimony	ug/L	500	490	98	75-125	
Arsenic	ug/L	500	492	98	75-125	
Barium	ug/L	500	482	96	75-125	
Beryllium	ug/L	500	496	99	75-125	
Boron	ug/L	500	470	94	75-125	
Cadmium	ug/L	500	505	101	75-125	
Calcium	ug/L	5000	5110	102	75-125	
Chromium	ug/L	500	495	99	75-125	
Cobalt	ug/L	500	485	97	75-125	
Copper	ug/L	500	501	100	75-125	
Iron	ug/L	5000	4750	95	75-125	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

LABORATORY CONTROL SAMPLE: 93373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	460	92	75-125	
Lithium	ug/L	500	505	101	75-125	
Magnesium	ug/L	5000	4810	96	75-125	
Manganese	ug/L	500	480	96	75-125	
Molybdenum	ug/L	500	481	96	75-125	
Nickel	ug/L	500	503	101	75-125	
Potassium	ug/L	5000	4720	94	75-125	
Selenium	ug/L	500	507	101	75-125	
Silver	ug/L	250	251	100	75-125	
Sodium	ug/L	5000	4810	96	75-125	
Thallium	ug/L	500	458	92	75-125	
Vanadium	ug/L	500	485	97	75-125	
Zinc	ug/L	500	503	101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 93374 93375

Parameter	Units	4010516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	10.5J	5000	5000	4360	4450	87	89	75-125	2	20	
Antimony	ug/L	6.8	500	500	471	480	93	95	75-125	2	20	
Arsenic	ug/L	1.2	500	500	472	480	94	96	75-125	2	20	
Barium	ug/L	7.8	500	500	463	471	91	93	75-125	2	20	
Beryllium	ug/L	<0.41	500	500	460	466	92	93	75-125	1	20	
Boron	ug/L	81.1	500	500	510	524	86	89	75-125	3	20	
Cadmium	ug/L	0.094J	500	500	475	486	95	97	75-125	2	20	
Calcium	ug/L	49800	5000	5000	50300	52000	11	45	75-125	3	20	P6
Chromium	ug/L	3.1	500	500	465	475	92	94	75-125	2	20	
Cobalt	ug/L	3.3	500	500	457	467	91	93	75-125	2	20	
Copper	ug/L	1.7	500	500	460	471	92	94	75-125	2	20	
Iron	ug/L	271	5000	5000	4700	4800	89	91	75-125	2	20	
Lead	ug/L	<0.50	500	500	440	450	88	90	75-125	2	20	
Lithium	ug/L	3.5	500	500	475	489	94	97	75-125	3	20	
Magnesium	ug/L	24100	5000	5000	26400	27100	47	60	75-125	2	20	P6
Manganese	ug/L	62.2	500	500	510	520	90	92	75-125	2	20	
Molybdenum	ug/L	11.3	500	500	466	478	91	93	75-125	3	20	
Nickel	ug/L	9.5	500	500	472	481	92	94	75-125	2	20	
Potassium	ug/L	7990	5000	5000	11700	11900	74	79	75-125	2	20	M0
Selenium	ug/L	0.50J	500	500	477	487	95	97	75-125	2	20	
Silver	ug/L	<0.25	250	250	230	236	92	94	75-125	3	20	
Sodium	ug/L	12500	5000	5000	15900	16300	69	76	75-125	2	20	M0
Thallium	ug/L	0.40J	500	500	439	451	88	90	75-125	3	20	
Vanadium	ug/L	<0.45	500	500	459	468	92	93	75-125	2	20	
Zinc	ug/L	3.7J	500	500	472	482	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WET/2499 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 93388 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.31	1.0	10/24/08 09:38	

LABORATORY CONTROL SAMPLE: 93389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	88	74.0	84	80-120	

SAMPLE DUPLICATE: 93390

Parameter	Units	4010629002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	244	242	.8	10	

SAMPLE DUPLICATE: 93391

Parameter	Units	4010645001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3000	3980	28	10	R1

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: CVFS/1290
QC Batch Method: EPA 1631E
Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury
Associated Lab Samples: 4010576002

METHOD BLANK: 94178 Matrix: Water
Associated Lab Samples: 4010576002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.455J	0.50	10/27/08 07:05	

METHOD BLANK: 94179 Matrix: Water
Associated Lab Samples: 4010576002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.380J	0.50	10/27/08 06:17	

METHOD BLANK: 94180 Matrix: Water
Associated Lab Samples: 4010576002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.492J	0.50	10/27/08 07:10	

LABORATORY CONTROL SAMPLE & LCSD: 94181 94182

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.23	4.94	105	99	79-121	6	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94183 94184

Parameter	Units	4010627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	5.06	20	20	28.5	27.1	117	110	75-125	5	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94185 94186

Parameter	Units	9230459002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	2.50	10	10	12.5	12.3	100	98	75-125	2	24	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WET/2515 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 94521 | Matrix: Water
Associated Lab Samples: 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<12.0	20.0	10/28/08 10:27	

LABORATORY CONTROL SAMPLE: 94522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	202	208	103	80-120	

SAMPLE DUPLICATE: 94523

Parameter	Units	4010576004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	354	342	3	10	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WETA/2639 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Dissolved Organic Carbon
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 94973 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dissolved Organic Carbon	mg/L	<1.4	2.0	10/31/08 09:31	

LABORATORY CONTROL SAMPLE: 94974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dissolved Organic Carbon	mg/L	100	112	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94975 94976

Parameter	Units	4010516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	3.6	100	100	129	125	125	121	80-120	3	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 94977 94978

Parameter	Units	4010576001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dissolved Organic Carbon	mg/L	<1.4	100	100	120	120	118	119	80-120	.4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WETA/2654 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 95703 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	<10.8	50.0	10/30/08 09:15	

LABORATORY CONTROL SAMPLE: 95704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	498	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 95705 95706

Parameter	Units	4010576003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	13.6J	526	526	540	547	100	101	.90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 95707 95708

Parameter	Units	4010838001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	202	526	526	637	634	83	82	90-110	.4	10	M0

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WET/2537 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 95748 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<3.2	10.0	10/30/08 09:54	

LABORATORY CONTROL SAMPLE: 95749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 95750 95751

Parameter	Units	4010538001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	160	500	500	659	657	100	99	80-120	.3	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WETA/2660 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Distilled
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 96042 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	<0.50	1.0	10/31/08 13:00	

LABORATORY CONTROL SAMPLE: 96043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	10	10.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96044 96045

Parameter	Units	409886012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	1.0 U	10	10	11.7	10.2	113	97	.90-110	14	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96046 96047

Parameter	Units	4010632001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	<0.50	10	10	10.7	10.3	104	100	90-110	4	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: CVFS/1294 — Analysis Method: EPA 1631E
QC Batch Method: EPA 1631E — Analysis Description: 1631E Mercury
Associated Lab Samples: 4010576001, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 96264 — Matrix: Water
Associated Lab Samples: 4010576001, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.361J	0.50	10/31/08 07:14	

METHOD BLANK: 96265 — Matrix: Water
Associated Lab Samples: 4010576001, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	<0.16	0.50	10/31/08 07:19	

METHOD BLANK: 96266 — Matrix: Water
Associated Lab Samples: 4010576001, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	0.287J	0.50	10/31/08 07:24	

LABORATORY CONTROL SAMPLE & LCSD: 96267 96268

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ng/L	5	5.54	5.73	111	115	79-121	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96269 96270

Parameter	Units	4010293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	85.2	300	300	372	439	96	118	75-125	17	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96271 96272

Parameter	Units	4010603001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	4.06	20	20	23.0	18.6	95	73	75-125	21	24	1j

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WETA/2665 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

METHOD BLANK: 96528 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004, 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	1.7J	2.0	11/04/08 09:27	

LABORATORY CONTROL SAMPLE: 96529

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	100	100	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96530 96531

Parameter	Units	4010576002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	5.4	100	100	109	111	104	106	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96532 96533

Parameter	Units	1083135003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	100	100	108	112	106	110	80-120	3	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WETA/2671 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004

METHOD BLANK: 96734 Matrix: Water
Associated Lab Samples: 4010576001, 4010576002, 4010576003, 4010576004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0060	0.020	11/03/08 14:27	

LABORATORY CONTROL SAMPLE: 96735

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.098	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96736 96737

Parameter	Units	4010545007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	0.18	.1	.1	0.25	0.25	71	72	90-110	.4	20	M0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96738 96739

Parameter	Units	4010576004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	101	106	90-110	5	20	

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QUALITY CONTROL DATA

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

QC Batch: WETA/2681 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 4010576005, 4010576006, 4010576007

METHOD BLANK: 96963 Matrix: Water
Associated Lab Samples: 4010576005, 4010576006, 4010576007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	<0.0060	0.020	11/04/08 13:33	

LABORATORY CONTROL SAMPLE: 96964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96965 96966

Parameter	Units	4010632003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0060	.1	.1	0.11	0.11	105	105	90-110	.3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 96967 96968

Parameter	Units	4010836005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.036	.1	.1	0.079	0.087	79	87	90-110	9	20	M0

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QUALIFIERS

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1j	Control Limits for MS/MSD recovery is 71%-125% for samples not collected in Wisconsin. MSD passed at 73%
B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the recognized method holding time.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
Z2	Analyte present in the associated method blank above the detection limit.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010576001	FBK-005	EPA 300.0	WETA/2593		
4010576002	HPL-004 3'	EPA 300.0	WETA/2593		
4010576003	HPL-004 15'	EPA 300.0	WETA/2593		
4010576004	HPL-004 60'	EPA 300.0	WETA/2593		
4010576005	HPL-004 120'	EPA 300.0	WETA/2593		
4010576006	HPL-004 175'	EPA 300.0	WETA/2593		
4010576007	DUP-005	EPA 300.0	WETA/2593		
4010576001	FBK-005	EPA 300.0	WETA/2594		
4010576002	HPL-004 3'	EPA 300.0	WETA/2594		
4010576003	HPL-004 15'	EPA 300.0	WETA/2594		
4010576004	HPL-004 60'	EPA 300.0	WETA/2594		
4010576005	HPL-004 120'	EPA 300.0	WETA/2594		
4010576006	HPL-004 175'	EPA 300.0	WETA/2594		
4010576007	DUP-005	EPA 300.0	WETA/2594		
4010576001	FBK-005	SM 2130B	WET/2491		
4010576002	HPL-004 3'	SM 2130B	WET/2491		
4010576003	HPL-004 15'	SM 2130B	WET/2491		
4010576004	HPL-004 60'	SM 2130B	WET/2491		
4010576005	HPL-004 120'	SM 2130B	WET/2491		
4010576006	HPL-004 175'	SM 2130B	WET/2491		
4010576007	DUP-005	SM 2130B	WET/2491		
4010576001	FBK-005	SM 2540C	WET/2492		
4010576002	HPL-004 3'	SM 2540C	WET/2492		
4010576003	HPL-004 15'	SM 2540C	WET/2492		
4010576001	FBK-005	SM 4500-S F (2000)	WET/2493		
4010576002	HPL-004 3'	SM 4500-S F (2000)	WET/2493		
4010576003	HPL-004 15'	SM 4500-S F (2000)	WET/2493		
4010576004	HPL-004 60'	SM 4500-S F (2000)	WET/2493		
4010576005	HPL-004 120'	SM 4500-S F (2000)	WET/2493		
4010576006	HPL-004 175'	SM 4500-S F (2000)	WET/2493		
4010576007	DUP-005	SM 4500-S F (2000)	WET/2493		
4010576001	FBK-005	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010576002	HPL-004 3'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010576003	HPL-004 15'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010576004	HPL-004 60'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010576005	HPL-004 120'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010576006	HPL-004 175'	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010576007	DUP-005	EPA 3010	MPRP/1899	EPA 6020	ICPM/1224
4010576001	FBK-005	SM 2540D	WET/2499		
4010576002	HPL-004 3'	SM 2540D	WET/2499		
4010576003	HPL-004 15'	SM 2540D	WET/2499		
4010576004	HPL-004 60'	SM 2540D	WET/2499		
4010576005	HPL-004 120'	SM 2540D	WET/2499		
4010576006	HPL-004 175'	SM 2540D	WET/2499		
4010576007	DUP-005	SM 2540D	WET/2499		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010576002	HPL-004 3'	EPA 1631E	CVFS/1290	EPA 1631E	CVFS/1291
4010576004	HPL-004 60'	SM 2540C	WET/2515		
4010576005	HPL-004 120'	SM 2540C	WET/2515		
4010576006	HPL-004 175'	SM 2540C	WET/2515		
4010576007	DUP-005	SM 2540C	WET/2515		
4010576001	FBK-005	SM 5310C	WETA/2639		
4010576002	HPL-004 3'	SM 5310C	WETA/2639		
4010576003	HPL-004 15'	SM 5310C	WETA/2639		
4010576004	HPL-004 60'	SM 5310C	WETA/2639		
4010576005	HPL-004 120'	SM 5310C	WETA/2639		
4010576006	HPL-004 175'	SM 5310C	WETA/2639		
4010576007	DUP-005	SM 5310C	WETA/2639		
4010576001	FBK-005	EPA 410.4	WETA/2654		
4010576002	HPL-004 3'	EPA 410.4	WETA/2654		
4010576003	HPL-004 15'	EPA 410.4	WETA/2654		
4010576004	HPL-004 60'	EPA 410.4	WETA/2654		
4010576005	HPL-004 120'	EPA 410.4	WETA/2654		
4010576006	HPL-004 175'	EPA 410.4	WETA/2654		
4010576007	DUP-005	EPA 410.4	WETA/2654		
4010576001	FBK-005	SM 2320B	WET/2537		
4010576002	HPL-004 3'	SM 2320B	WET/2537		
4010576003	HPL-004 15'	SM 2320B	WET/2537		
4010576004	HPL-004 60'	SM 2320B	WET/2537		
4010576005	HPL-004 120'	SM 2320B	WET/2537		
4010576006	HPL-004 175'	SM 2320B	WET/2537		
4010576007	DUP-005	SM 2320B	WET/2537		
4010576001	FBK-005	EPA 350.1	WETA/2660		
4010576002	HPL-004 3'	EPA 350.1	WETA/2660		
4010576003	HPL-004 15'	EPA 350.1	WETA/2660		
4010576004	HPL-004 60'	EPA 350.1	WETA/2660		
4010576005	HPL-004 120'	EPA 350.1	WETA/2660		
4010576006	HPL-004 175'	EPA 350.1	WETA/2660		
4010576007	DUP-005	EPA 350.1	WETA/2660		
4010576001	FBK-005	EPA 1631E	CVFS/1294	EPA 1631E	CVFS/1295
4010576003	HPL-004 15'	EPA 1631E	CVFS/1294	EPA 1631E	CVFS/1295
4010576004	HPL-004 60'	EPA 1631E	CVFS/1294	EPA 1631E	CVFS/1295
4010576005	HPL-004 120'	EPA 1631E	CVFS/1294	EPA 1631E	CVFS/1295
4010576006	HPL-004 175'	EPA 1631E	CVFS/1294	EPA 1631E	CVFS/1295
4010576007	DUP-005	EPA 1631E	CVFS/1294	EPA 1631E	CVFS/1295
4010576001	FBK-005	SM 5310C	WETA/2665		
4010576002	HPL-004 3'	SM 5310C	WETA/2665		
4010576003	HPL-004 15'	SM 5310C	WETA/2665		
4010576004	HPL-004 60'	SM 5310C	WETA/2665		
4010576005	HPL-004 120'	SM 5310C	WETA/2665		
4010576006	HPL-004 175'	SM 5310C	WETA/2665		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUMBOLDT MILL, MI
Pace Project No.: 4010576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010576007	**DUP-005**	SM 5310C	WETA/2665		
4010576001	**FBK-005**	EPA 335.4	WETA/2671		
4010576002	**HPL-004 3'**	EPA 335.4	WETA/2671		
4010576003	**HPL-004 15'**	EPA 335.4	WETA/2671		
4010576004	**HPL-004 60'**	EPA 335.4	WETA/2671		
4010576005	**HPL-004 120'**	EPA 335.4	WETA/2681		
4010576006	**HPL-004 175'**	EPA 335.4	WETA/2681		
4010576007	**DUP-005**	EPA 335.4	WETA/2681		

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November 3, 2008

Mr. Tod Noltemeyer
Pace Analytical Services, Inc
1241 Bellevue St., Suite 9
Green Bay, WI 54302

Water Characterization
4010576 Foth & Van Dyke
Pace Project No. 08-4431Q

Dear Mr. Noltemeyer:

Enclosed are analytical results for samples submitted by Pace Analytical Services, Inc. Samples were received and logged in for analysis on October 27, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace Analytical Services, Inc. - Pittsburgh Quality Insurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-850-5600.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-4431Q
CLIENT: 4010576 Foth & Van Dyke

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0810-1257	FBK-005 (4010576001)	0810-1258	HPL-004 3' (40105760
0810-1259	HPL-004 15' (4010576	0810-1260	HPL-004 60' (4010576
0810-1261	HPL-004 120' (401057	0810-1262	HPL-004 175' (401057
0810-1263	DUP-005 (4010576007)		

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1
General Data Table
Pace Analytical Services, Inc.
Pace Project No. 08-4431Q
Water Characterization; 4010576 Foth & Van Dyke

Pace Sample ID	Client Sample ID	Date Collected	Analyzed	Parameter Identification Gross Alpha EPA 900.0 pCi/L Act ± Unc	(MDC)
0810-1257	FBK-005 (4010576001)	(10/21/08)	11/03/08	0.231 ± 0.458	(1.05)
0810-1258	HPL-004 3' (4010576002)	(10/21/08)	10/31/08	1.39 ± 0.813	(1.17)
0810-1259	HPL-004 15' (4010576003)	(10/21/08)	10/31/08	1.87 ± 1.26	(1.92)
0810-1260	HPL-004 60' (4010576004)	(10/21/08)	10/31/08	1.84 ± 0.755	(0.933)
0810-1261	HPL-004 120' (4010576005)	(10/21/08)	10/31/08	1.62 ± 1.74	(2.86)
0810-1262	HPL-004 175' (4010576006)	(10/21/08)	10/31/08	2.46 ± 1.22	(1.65)
0810-1263	DUP-005 (4010576007)	(10/21/08)	10/31/08	1.96 ± 1.01	(1.39)
0810-1264	Method Blank	(10/27/08)	10/31/08	0.144 ± 0.600	(1.49)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Pace Sample ID	Client Sample ID	Date Collected	Parameter Identification: Gross Beta EPA 900.0 pCi/L Analyzed	Act ± Unc	(MDC)
0810-1257	FBK-005 (4010576001)	(10/21/08)	11/03/08	-0.131 ± 0.567	(1.43)
0810-1258	HPL-004 3' (4010576002)	(10/21/08)	10/31/08	3.85 ± 1.09	(1.20)
0810-1259	HPL-004 15' (4010576003)	(10/21/08)	10/31/08	5.10 ± 1.49	(1.70)
0810-1260	HPL-004 60' (4010576004)	(10/21/08)	10/31/08	5.19 ± 1.20	(0.983)
0810-1261	HPL-004 120' (4010576005)	(10/21/08)	10/31/08	10.6 ± 2.53	(2.18)
0810-1262	HPL-004 175' (4010576006)	(10/21/08)	10/31/08	12.1 ± 2.62	(1.72)
0810-1263	DUP-005 (4010576007)	(10/21/08)	10/31/08	3.00 ± 1.12	(1.49)
0810-1264	Method Blank	(10/27/08)	10/31/08	-0.145 ± 0.638	(1.59)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

0004

11/4/08

Quality Control Sample Performance Assessment

Test:	Gross Alpha
Analyst:	RMD
Date:	10/27/2008
Worklist:	17300
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	0.320
M/B Counting Uncertainty:	0.789
MB MDC:	1.891
MB Numerical Performance Indicator:	0.79
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	10/25/2008	10/25/2008
Spike I.D.:	06-011	06-011
Spike Concentration (pCi/mL):	91.795	91.795
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	45.898	45.898
Uncertainty (Calculated):	2.699	2.699
Result (pCi/L, g, F):	49.385	45.653
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	4.185	3.999
Numerical Performance Indicator:	1.37	-0.10
Percent Recovery:	107.60%	99.47%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	LCS17300
Duplicate Sample I.D.	LCSD17300
Sample Result (pCi/L, g, F):	49.385
Sample Result Counting Uncertainty (pCi/L, g, F):	4.185
Sample Duplicate Result (pCi/L, g, F):	45.653
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.999
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	1.264
Duplicate RPD:	7.85%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Sample Collection Date:	10/8/2008
Sample I.D.	0810-0927
Sample MS I.D.	0810-0927MS
Sample MSD I.D.	
Spike I.D.:	06-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	91.795
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.125
MS Target Conc.(pCi/L, g, F):	146.872
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	8.636
Sample Result:	0.603
Sample Result Counting Uncertainty (pCi/L, g, F):	0.954
Sample Matrix Spike Result:	155.391
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	15.228
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.885
MSD Numerical Performance Indicator:	
MS Percent Recovery:	105.39%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Comments:

11/4/08

Quality Control Sample Performance Assessment

Test:	Gross Beta
Analyst:	RMD
Date:	11/3/2008
Worklist:	17349
Matrix (DW, W, F, Solid):	DW

Method Blank Assessment

MB concentration:	-0.145
M/B Counting Uncertainty:	0.637
MB MDC:	1.585
MB Numerical Performance Indicator:	-0.45
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LSCD
Count Date:	11/3/2008	11/3/2008
Spike I.D.:	07-016	07-016
Spike Concentration (pCi/mL):	39.092	39.092
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.200	0.200
Target Conc. (pCi/L, g, F):	19.546	19.546
Uncertainty (Calculated):	0.460	0.460
Result (pCi/L, g, F):	18.932	21.217
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	2.297	2.330
Numerical Performance Indicator:	-0.51	1.38
Percent Recovery:	96.86%	108.55%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	10/20/2008
Sample I.D.	0810-1073
Sample MS I.D.	0810-1073MS
Sample MSD I.D.	
Spike I.D.:	07-016
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.128
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.200
MS Target Conc.(pCi/L, g, F):	39.128
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.920
Sample Result:	0.304
Sample Result Counting Uncertainty (pCi/L, g, F):	0.689
Sample Matrix Spike Result:	36.987
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	2.495
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-1.744
MSD Numerical Performance Indicator:	
MS Percent Recovery:	93.75%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS17349
Duplicate Sample I.D.	LCSD17349
Sample Result (pCi/L, g, F):	18.932
Sample Result Counting Uncertainty (pCi/L, g, F):	2.297
Sample Duplicate Result (pCi/L, g, F):	21.217
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.330
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-1.369
Duplicate RPD:	11.38%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Condition Upon Receipt

Pace Analytical

Client Name: NORTH JACKSON Project # 4010576

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3° **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 4 10/22/08

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. NITRATES, TURBITITY
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed ✓ / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: PM **Date:** 10/22/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

20081021

Page: 1 of 1

Section A Required Client Information:

Company:	North Jackson & Foth I & E
Address:	2737 South Ridge Road
	Green Bay, WI 54304
Email To:	
Phone: 920-497-2500	Fax:
Requested Due Date/TAT:	All data FOTH by 7/31/08.

Section B Required Project Information:

Report To:	Sharon Felix - Foth I & E
Copy To:	
Purchase Order No.:	
Project Name:	HUMBOLDT MILL, MI
Project Number:	

Section C Invoice Information:

Attention:	JANIS KESY
Company Name:	FOTH I & E
Address:	2737 South Ridge Rd, Green Bay, WI
Pace Quote Reference:	
Pace Project Manager:	Tod Noltemeyer
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MI

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other ZnAc, NaOH	Alk2, Cl, Fl, SO4, TDS, Turbidity	NITRITE, NITRATE SEPARATELY	TSS	CYANIDE	METALS, GROSS ALPHA/BETA	LLHG	SULFIDE	DOC	AMMONIA, COD, TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	Analysis Test (Y/N)																	N	N	N	N	N	N	N	Y	N		
1	FBK-005 SW 001	WT	G			10/21/08	930	–	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2	N	4010576
2	HPL-004 3' SW 002	WT	G			10/21/08	1100	10	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2	N	
3	HPL-004 15' SW 003	WT	G			10/21/08	1125	10	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2	N	
4	HPL-004 60' SW 004	WT	G			10/21/08	1235	5.1	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2	N	
5	HPL-004 120' SW 005	WT	G			10/21/08	1405	5.4	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2	N	
6	HPL-004 175' SW 006	WT	G			10/21/08	1510	5.4	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2	N	
7	DUP-005 SW 007	WT	G			10/21/08	–	–	11	4	3	2		1			1	1	1	1	1	2	1	1	1	2	N	
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Cindy Steffen / NJC	10/21/08	1800							
	fedex	10/22/08	1005		10/22/08	1005	3	4	4	4

FED EX 7980 4399 6697
7980 4399 6701
7911 6955 3268
7906 0000 5830

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CINDY STEFFEN, ANN MARACINI

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 10/21/08

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Appendix H

2008 Surface Water Database

Table H-1

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
2/18/2008	Field Measurement																																				
	Dissolved Oxygen	mg/L	Tier 1	6.2	5.6			0.8		f	0.2			8.6																							
	Flow	cfs	Tier 1	0																																	
	Iron, Ferrous	ug/L	Tier 1																						<0.02						<0.02		<0.02				
	ORP	mV	Tier 1	103	106			32		f	64			14																							
	pH	S.U.	Tier 1	6.7	7.2			6.7		f	6.7			7.6																							
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	108	559			385		f	283			518																							
	Temperature	Celcius	Tier 1	0.03	0			0.57		f	0			1.52																							
	Turbidity	NTU	Tier 1	2.5	1			35			48			0.75 B			4.8			0.85 J	0.92 J	1.7	0.89 J	4.6				1.2			0.83 J	0.98 J	1.0	0.98 J	4.8		
	Velocity	ft/s	Tier 1																																		
	Water Depth	ft	Tier 1																																		
	Metals																																				
	Aluminum	ug/L	Tier 1	22 B	8.2 B			15 B			230			16 B			<4.4 U			<4.4 U	12.5 J	<4.4 U	<4.4 U	<4.4 U				19.3 J			4.4 J	<4.4 U	<4.4 U	9.3 J	<4.4 U		
	Antimony	ug/L	Tier 1	<0.10 U	9.7			0.20 B			0.15 B			9.6			8.1			7.8	8.5	40.3	7.9	8				48.8			36.8	8.6	44.7	8.9	8.5		
	Arsenic	ug/L	Tier 1	0.32 B	0.45 B			10			16			0.12 B			0.69 J			0.77 J	0.51 J	0.49 J	0.55 J	0.79 J				0.43 J			0.44 J	0.51 J	0.36 J	0.42 J	0.71 J		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
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	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1	4.9																																	
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1								44																										
	Barium	ug/L	Tier 1																																		
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	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1					31																													
	Barium	ug/L	Tier 1																					7.9											8.4		
	Barium	ug/L	Tier 1																													7.8					
	Barium	ug/L	Tier 1																															7.7			
	Barium	ug/L	Tier 1																	7.7																	
	Barium	ug/L	Tier 1														8.1																				
	Barium	ug/L	Tier 1																				7.1														
	Barium	ug/L	Tier 1																		7.5																
	Barium	ug/L	Tier 1		11									17																							
	Barium	ug/L	Tier 1																												9.9						
	Barium	ug/L	Tier 1																									15.8									
	Barium	ug/L	Tier 1																														12.2				
	Barium	ug/L	Tier 1																			11.3															
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
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	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1	<0.070 U																																	
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1								<0.070 U																										
	Beryllium	ug/L	Tier 1																																		
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	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1					0.070 B																													
	Beryllium	ug/L	Tier 1																					<0.070 U											<0.070 U		
	Beryllium	ug/L	Tier 1																													<0.070 U					
	Beryllium	ug/L	Tier 1																															<0.070 U			
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	Beryllium	ug/L	Tier 1																		<0.070 U																
	Beryllium	ug/L	Tier 1		<0.070 U									<0.070 U																							
	Beryllium	ug/L	Tier 1																												<0.070 U						
	Beryllium	ug/L	Tier 1																									<0.070 U									
	Beryllium	ug/L	Tier 1																														<0.070 U				
	Beryllium	ug/L	Tier 1																			<0.070 U															
	Boron	ug/L	Tier 1	14	82			48			18			71			81.6			79.6	88.7	141	79.7	79.6				164			139	84	153	90.6	83.6		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
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	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1	<0.097 U																																	
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1								<0.097 U																										
	Cadmium	ug/L	Tier 1																																		
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	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1					<0.097 U																													
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	Cadmium	ug/L	Tier 1														<0.097 U																				
	Cadmium	ug/L	Tier 1																				<0.097 U														
	Cadmium	ug/L	Tier 1																		<0.097 U																
	Cadmium	ug/L	Tier 1		<0.097 U									<0.097 U																							
	Cadmium	ug/L	Tier 1																												<0.098 U						
	Cadmium	ug/L	Tier 1																									<0.098 U									
	Cadmium	ug/L	Tier 1																														<0.098 U				
	Cadmium	ug/L	Tier 1																			<0.097 U															
	Calcium	ug/L	Tier 1	11000	55000			37000			12000			55000			52200			51900	53400	56600	52800	49300				54600			55000	50400	55500	50900	50100		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
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	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1	0.71 B																																	
	Chromium	ug/L	Tier 1																																		

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Chromium	ug/L	Tier 1								1.9																										
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
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	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1					<0.43 U																													
	Chromium	ug/L	Tier 1																					<0.43 U											0.73 J		
	Chromium	ug/L	Tier 1																													0.58 J					
	Chromium	ug/L	Tier 1																															1.0			
	Chromium	ug/L	Tier 1																	<0.43 U																	
	Chromium	ug/L	Tier 1														<0.43 U																				
	Chromium	ug/L	Tier 1																				<0.43 U														
	Chromium	ug/L	Tier 1																		<0.43 U																
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	Chromium	ug/L	Tier 1																												<0.43 U						
	Chromium	ug/L	Tier 1																									0.59 J									
	Chromium	ug/L	Tier 1																														<0.43 U				
	Chromium	ug/L	Tier 1																			<0.43 U															
	Cobalt	ug/L	Tier 1	0.060 B	3.1			4.8			1.6			2.9			4.1			4.1	4	22.6	3.7	4.1				21.6			18.5	3.8	23.3	0.82 J	4.0		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
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	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1	0.43 B																																	
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1								1.9																										
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1					0.48 B																													
	Copper	ug/L	Tier 1																					1.3											1.9		
	Copper	ug/L	Tier 1																													1.8					
	Copper	ug/L	Tier 1																															1.8			
	Copper	ug/L	Tier 1																	1.3																	
	Copper	ug/L	Tier 1														1.3																				
	Copper	ug/L	Tier 1																				1.3														
	Copper	ug/L	Tier 1																		1.6																
	Copper	ug/L	Tier 1		1.7									2.4																							
	Copper	ug/L	Tier 1																												3.8						
	Copper	ug/L	Tier 1																									4.4									
	Copper	ug/L	Tier 1																														3.5				
	Copper	ug/L	Tier 1																			2.7															
	Iron	ug/L	Tier 1	480	140			7000			36000			130			422			424	123	109	102	442				173			180	147	160	138	472		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1	0.25 B																																	
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1								1.1																										
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1					0.18 B																													
	Lead	ug/L	Tier 1																					<0.04 U											<0.044 U		
	Lead	ug/L	Tier 1																													<0.044 U					
	Lead	ug/L	Tier 1																															0.05 J			
	Lead	ug/L	Tier 1																	<0.04 U																	
	Lead	ug/L	Tier 1														<0.04 U																				
	Lead	ug/L	Tier 1																				<0.04 U														
	Lead	ug/L	Tier 1																		0.09 J																
	Lead	ug/L	Tier 1		0.080 B									0.070 B																							
	Lead	ug/L	Tier 1																												0.07 J						
	Lead	ug/L	Tier 1																									0.56 J									
	Lead	ug/L	Tier 1																														0.07 J				
	Lead	ug/L	Tier 1																			<0.043 U															
	Lithium	ug/L	Tier 1	0.96 B	2.6			1.9			0.20 B			1.6			3			3.3	3.4	3.5	3.3	3.1				3.8			3.6	3.4	3.4	3.5	3.0		
	Magnesium	ug/L	Tier 1	4500	25000			17000			4900			25000			25000			24900	25600	31900	25200	23700				29600			29100	23500	31000	23600	23400		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1	61																																	
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1								**1600**																										
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1					1100																													
	Manganese	ug/L	Tier 1																					318											332		
	Manganese	ug/L	Tier 1																													217					
	Manganese	ug/L	Tier 1																															219			
	Manganese	ug/L	Tier 1																	316																	
	Manganese	ug/L	Tier 1														321																				
	Manganese	ug/L	Tier 1																				209														
	Manganese	ug/L	Tier 1																		221																
	Manganese	ug/L	Tier 1		11									26																							
	Manganese	ug/L	Tier 1																												1650						
	Manganese	ug/L	Tier 1																									2990									
	Manganese	ug/L	Tier 1																														2770				
	Manganese	ug/L	Tier 1																			2640															
	Mercury - low level	ng/L	Tier 1	1.01	0.406 B			0.507			**5.2**			0.603			0.464 J			0.737	0.362 J	0.635	0.395 J	0.367 J				0.631			0.458 J	0.713	0.348 J	0.453 J	0.318 J		
	Molybdenum	ug/L	Tier 1	0.67 B	12			1.1 B			1.4 B			11			11.4			11.3	12.4	65.7	11.4	11.4				75.9			51.2	12.1	70.8	12.5	12		
	Nickel	ug/L	Tier 1																																		

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1	1																																	
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1								1.3																										
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1					10																													
	Nickel	ug/L	Tier 1																					17.9											19.1		
	Nickel	ug/L	Tier 1																													17.7					
	Nickel	ug/L	Tier 1																															18.4			
	Nickel	ug/L	Tier 1																	17.8																	
	Nickel	ug/L	Tier 1														17.8																				
	Nickel	ug/L	Tier 1																				16.7														
	Nickel	ug/L	Tier 1																		17.7																
	Nickel	ug/L	Tier 1		21									7.5																							
	Nickel	ug/L	Tier 1																												234						
	Nickel	ug/L	Tier 1																									334									
	Nickel	ug/L	Tier 1																														303				
	Nickel	ug/L	Tier 1																			287															
	Potassium	ug/L	Tier 1	1500	8300			3300			1900			8700			8220			8210	8610	20600	8390	8270				23100			18000	8370	21200	8700	8260		
	Selenium	ug/L	Tier 1	<0.15 U	0.26 B			0.49 B			<0.15 U			<0.15 U			0.59 J			0.44 J	<0.15 U	0.5 J	0.48 J	0.55 J				0.37 J			0.31 J	<0.15 U	<0.15 U	<0.15 U	<0.15 U		
	Silver	ug/L	Tier 1	<0.11 P,U	<0.11 P,U			<0.11 P,U			<0.11 P,U			<0.11 P,U			<0.11 P,U			<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U				<0.11 P,U			<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U		
	Sodium	ug/L	Tier 1	1400	14000			6200			18000			13000			12800			12700	13400	31200	13300	12900				34300			26800	12900	31100	13400	12700		
	Thallium	ug/L	Tier 1	<0.030 U	0.030 B			0.11 B			0.12 B			0.050 B			<0.030 U			<0.030 U	<0.030 U	<0.030 U	<0.030 U	<0.030 U				<0.03 U			<0.03 U	<0.03 U	<0.03 U	<0.03 U	<0.03 U		
	Total Hardness	ug/L	Tier 1	47000	240000			160000			50000			240000			233000			232000	238000	273000	235000	221000				258000			257000	223000	266000	224000	221000		
	Vanadium	ug/L	Tier 1	<0.41 U	<0.41 U			<0.41 U			3.5			<0.41 U			<0.41 U			<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U				<0.41 U			<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1	7.3 B																																	
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1								10																										
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1					5.4 B																													
	Zinc	ug/L	Tier 1																					3.1 J											4.9 J		
	Zinc	ug/L	Tier 1																													5.9 J					
	Zinc	ug/L	Tier 1																															5.4 J			
	Zinc	ug/L	Tier 1																	3.3 J																	
	Zinc	ug/L	Tier 1														4.1 J																				
	Zinc	ug/L	Tier 1																				8 J														
	Zinc	ug/L	Tier 1																		6 J																
	Zinc	ug/L	Tier 1		13									6.7 B																							
	Zinc	ug/L	Tier 1																												8.9 J						
	Zinc	ug/L	Tier 1																									7.9 J									
	Zinc	ug/L	Tier 1																														8.2 J				
	Zinc	ug/L	Tier 1																			4.9 J															
	Inorganics																																				
	Bicarbonate Alkalinity	mg/L	Tier 1	49	110			84			53			100			104			140	86.6	166	109	107				166			140	107	169	109	107		
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U	<3.2 U			<3.2 U			<3.2 U			<3.2 U			<3.2 U			<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U				<3.2 U			<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U		
	Chloride	mg/L	Tier 1	3.2 B	13			11			38			12			12.8			22.2	12.9	27	13.4	12.8				26.8			21.8	12.5	26.7	12.6	12.4		
	COD	mg/L	Tier 1	40 B	13 B			13 B			84			15 B			13 J			<10.8 U	<10.8 U	17.4 J	15.2 J	<10.8 U				15.2 J			17.4 J	13 J	<11.300000191 U	13 J	13 J		
	Cyanide, total	mg/L	Tier 1	<0.0060 P,U	<0.0060 P,U			<0.0060 P,U			<0.0060 P,U			<0.0060 P,U			**0.0075 J**			**0.016 J**	**0.01 J**	**0.017 J**	**0.0077 J**	**0.0069 J**				**0.014 J**			**0.019 J**	**0.014 J**	**0.023**	**0.0099 J**	**0.012 J**		
	Fluoride	mg/L	Tier 1	0.25 B	0.32 B			0.28 B			0.41 B			0.33 B			0.27 J			0.31 J	0.26 J	0.35 J	0.26 J	0.27 J				0.42 J			0.38 J	0.33 J	0.42 J	0.43 J	0.33 J		
	Gross Alpha	pCi/L	Tier 1	-0.025 +/- 0.301	2.86 +/- 1.07			0.384 +/- 0.532			2.95 +/- 1.55			1.82 +/- 0.811			2.69 +/- 1.40			4.11 +/- 2.11	1.03 +/- 1.36	2.26 +/- 1.76	2.35 +/- 1.80	2.37 +/- 1.59				2.67 +/- 1.76			3.52 +/- 2.09	1.17 +/- 1.27	2.19 +/- 1.49	3.07 +/- 1.94	2.17 +/- 1.44		
	Gross Beta	pCi/L	Tier 1	1.33 +/- 0.490	6.41 +/- 1.37			2.85 +/- 0.725			4.34 +/- 1.50			6.84 +/- 1.43			4.26 +/- 1.37			14.2 +/- 3.13	7.84 +/- 2.11	17.0 +/- 3.78	8.95 +/- 2.58	6.89 +/- 1.74				20.8 +/- 4.32			10.9 +/- 2.65	7.04 +/- 2.00	21.8 +/- 4.48	4.45 +/- 1.55	8.02 +/- 1.93		
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U	<0.50 U			<0.50 U			0.80 B			<0.50 U			<0.5 U			2.5	<0.5 U	4.7	<0.5 U	<0.5 U				4.3			2.6	<0.5 U	4.8	<0.5 U	<0.5 U		
	Nitrogen, Nitrate	mg/L	Tier 1	0.15 B	<0.085 U			<0.085 U			<0.085 U			<0.085 U			2.1			2.5	2.1	1.3	2.1	2.1				1.3			2.5	2.1	1.3	2.2	2.1		
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U	<0.036 U			<0.036 U			<0.036 U			<0.036 U			<0.036 U			<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U				<0.072 U			<0.072 U	<0.072 U	<0.072 U	<0.072 U	<0.072 U		
	Sulfate	mg/L	Tier 1	4.5	140			80			<0.51 U			130			144			170	145	176	146	144				177			169	141	175	144	142		
	Sulfide	mg/L	Tier 1	<2.3 U	<2.3 U			<2.3 U			3.2 B			<2.3 U			<2.30 U			<2.30 U	<2.30 U	<2.30 U	<2.30 U	<2.30 U				<2.3 U			<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U		
	TOC as NPOC	mg/L	Tier 1	7.6	3.3			2.8			17			3			2.3			2.2	2.7	3.5	3.4	3.3				3.0			2.7	2.4	3.3	2.6	2.6		
	TOC as NPOC - Dissolved	mg/L	Tier 1	11	4.7			2.8			18			3.6			2.8			2.8	2.3	2.8	3.8	2.3				4.7			3.1	3.4	3.8	9.4	4.6		
	Total Alkalinity	mg/L	Tier 1	49	110			84			53			100			104			140	86.6	166	109	107				166			140	107	169	109	107		
	Total Dissolved Solids	mg/L	Tier 1	76	360			140			130			340			312			396	310	422	332	324				420			398	314	426	326	326		
	Total Suspended Solids	mg/L	Tier 1	1.2 B	1			9.8			95			0.50 B			0.7 J			<0.31 U	<0.31 U	<0.31 U	<0.31 U	0.5 J				0.44 J			<0.31 U	<0.31 U	<0.31 U	0.4 J	0.7 J		
4/30/2008	**Field Measurement**																																				
	Conductivity	mmhos	Tier 1	47	216			1220		21	192				1300							455	326	320	418	319					421	320	456	320	322		
	Conductivity	mmhos	Tier 1	47	216			1220		21	192				1300							455	326	320	418	319					421	320	456	320	322		
	Depth to Water	ft	Tier 1		1.47			1.52		4.12	1.05	1.4		1.84																							
	Dissolved Oxygen	mg/L	Tier 1	8.36	1			5.01		10.92	7.39				10.43																						
	Flow	cfs	Tier 1	1.9615																																	
	GW Elevation	ft msl	Tier 1		1532.64			1543.42		1748.4	1571.99	1537.32		1534.43																							
	Iron, Ferrous	ug/L	Tier 1																			<0.02	NM	NM	<0.02	NM	<0.02				<0.02	NM	<0.02	NM	NM	<0.02	
	ORP	mV	Tier 1	120	-76.8			4.9		167.2	31.6				-5.4																						
	pH	S.U.	Tier 1	7.2	6.62			6.64		5.86	6.42				7.15																						
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	68	349			334		30	269				464																						
	Temperature	Celcius	Tier 1	8.8	4.95			6.98		9.14	10.02				5.94																						
	Turbidity	NTU	Tier 1	1.1	5.6			14.5		1.3	10.6				2.1					3.1	2.7	1.7	3.2	3.6					3.7		1.3	2.9	1.5	5.8	4.3		
	Metals																																				
	Aluminum	ug/L	Tier 1	29.6 J	68.7			6.7 J		148	24.5 J				124					<4.4 U	5.8 J	<4.4 U	6.6 J	<4.4 U					6.4 J		<4.4 U	<4.4 U	<4.4 U	<4.4 U	<4.4 U		
	Antimony	ug/L	Tier 1	<0.10 U	3.6			<0.10 U		0.18 J	<0.10 U				8					31.8	6.8	40.4	7	7.9					6.8		37.5	7.6	39.5	7.4	8.1		
	Arsenic	ug/L	Tier 1	0.77 J	0.87 J			6.2		0.57 J	1				0.7 J					0.31 J	0.66 J	0.41 J	0.79 J	0.48 J					0.62 J		0.45 J	0.53 J	0.46 J	0.47 J	0.67 J		
	Barium	ug/L	Tier 1							17.6																											
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
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	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1	4.4																																	
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1								21.5																										
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1		13.5																																
	Barium	ug/L	Tier 1					25.9																													
	Barium	ug/L	Tier 1																										6.8								
	Barium	ug/L	Tier 1																		6.8																
	Barium	ug/L	Tier 1																				7.2														
	Barium	ug/L	Tier 1																														7.4				
	Barium	ug/L	Tier 1												12.7																						
	Barium	ug/L	Tier 1																															7.6			
	Barium	ug/L	Tier 1																					7.5													
	Barium	ug/L	Tier 1																													8.0					
	Barium	ug/L	Tier 1																												8.8						
	Barium	ug/L	Tier 1																	8.5																	
	Barium	ug/L	Tier 1																			11.9															
	Barium	ug/L	Tier 1																														11.2				
	Beryllium	ug/L	Tier 1							0.1 J																											
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1	<0.070 U																																	
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1								<0.070 U																										
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1		<0.070 U																																
	Beryllium	ug/L	Tier 1					<0.070 U																													
	Beryllium	ug/L	Tier 1																										<0.070 U								
	Beryllium	ug/L	Tier 1																		<0.070 U																
	Beryllium	ug/L	Tier 1																				<0.070 U														
	Beryllium	ug/L	Tier 1																														<0.070 U				
	Beryllium	ug/L	Tier 1												<0.070 U																						
	Beryllium	ug/L	Tier 1																					<0.070 U													
	Beryllium	ug/L	Tier 1																													<0.070 U					
	Beryllium	ug/L	Tier 1																	<0.070 U											<0.070 U						
	Beryllium	ug/L	Tier 1																			<0.070 U															
	Beryllium	ug/L	Tier 1																														<0.070 U				
	Boron	ug/L	Tier 1	11.2	37.6			44.4		13.8	23				70.5					127	69.6	166	68.8	70.8					70.7		118	70.8	154	78.3	71.3		
	Cadmium	ug/L	Tier 1							<0.098 U																											
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1	<0.098 U																																	
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1								<0.098 U																										
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1		<0.098 U																																
	Cadmium	ug/L	Tier 1					<0.098 U																													
	Cadmium	ug/L	Tier 1																										0.13 J								
	Cadmium	ug/L	Tier 1																		<0.098 U																
	Cadmium	ug/L	Tier 1																				<0.098 U														
	Cadmium	ug/L	Tier 1																														<0.098 U				
	Cadmium	ug/L	Tier 1												<0.098 U																						
	Cadmium	ug/L	Tier 1																															<0.098 U			
	Cadmium	ug/L	Tier 1																					<0.098 U													
	Cadmium	ug/L	Tier 1																													0.1 J					
	Cadmium	ug/L	Tier 1																												<0.098 U						
	Cadmium	ug/L	Tier 1																	<0.098 U																	
	Cadmium	ug/L	Tier 1																			<0.098 U															
	Cadmium	ug/L	Tier 1																														<0.098 U				
	Calcium	ug/L	Tier 1	7950	23800			30600		2470	11200				48500					50400	46000	53900	46700	49900					43800		50500	50700	56800	48200	49300		
	Chromium	ug/L	Tier 1							0.85 J																											
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1	<0.43 U																																	
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1								1.1																										
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1		0.65 J																																
	Chromium	ug/L	Tier 1					<0.43 U																													
	Chromium	ug/L	Tier 1																										0.45 J								
	Chromium	ug/L	Tier 1																		<0.43 U																
	Chromium	ug/L	Tier 1																				0.66 J														
	Chromium	ug/L	Tier 1																														<0.43 U				
	Chromium	ug/L	Tier 1												0.57 J																						
	Chromium	ug/L	Tier 1																															<0.43 U			

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Chromium	ug/L	Tier 1																					<0.43 U													
	Chromium	ug/L	Tier 1																													0.49 J					
	Chromium	ug/L	Tier 1																												0.85 J						
	Chromium	ug/L	Tier 1																	<0.43 U																	
	Chromium	ug/L	Tier 1																			<0.43 U															
	Chromium	ug/L	Tier 1																														1.7				
	Cobalt	ug/L	Tier 1	<0.059 U	2.3			4.0		0.18 J	0.33 J				3.6					16.7	3.8	25.6	3.7	4.1					3.8		17.1	4.0	23.1	3.7	4.1		
	Copper	ug/L	Tier 1							0.79 J																											
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1	<0.12 U																																	
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1								0.54 J																										
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1		3.6																																
	Copper	ug/L	Tier 1					1.1																													
	Copper	ug/L	Tier 1																										1.8								
	Copper	ug/L	Tier 1																		1.6																
	Copper	ug/L	Tier 1																				1.5														
	Copper	ug/L	Tier 1																															2.0			
	Copper	ug/L	Tier 1												11																						
	Copper	ug/L	Tier 1																																1.3		
	Copper	ug/L	Tier 1																					1.3													
	Copper	ug/L	Tier 1																													1.6					
	Copper	ug/L	Tier 1																												2.5						
	Copper	ug/L	Tier 1																	2.9																	
	Copper	ug/L	Tier 1																			3.8															
	Copper	ug/L	Tier 1																														3.3				
	Iron	ug/L	Tier 1	546	1680			4770		308	4030				510					120	319	182	335	383					314		145	360	151	347	399		
	Lead	ug/L	Tier 1							0.18 J																											
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1	0.15 J																																	
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1								0.1 J																										
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1		0.49 J																																
	Lead	ug/L	Tier 1					0.1 J																													
	Lead	ug/L	Tier 1																										0.06 J								
	Lead	ug/L	Tier 1																		<0.044 U																
	Lead	ug/L	Tier 1																				<0.044 U														
	Lead	ug/L	Tier 1																															<0.044 U			
	Lead	ug/L	Tier 1												0.34 J																						
	Lead	ug/L	Tier 1																																0.06 J		
	Lead	ug/L	Tier 1																					<0.044 U													
	Lead	ug/L	Tier 1																													0.07 J					
	Lead	ug/L	Tier 1																												0.08 J						
	Lead	ug/L	Tier 1																	<0.044 U																	
	Lead	ug/L	Tier 1																			<0.044 U															
	Lead	ug/L	Tier 1																														0.05 J				
	Lithium	ug/L	Tier 1	0.67 J	0.89 J			1.9		0.34 J	<0.085 U				2.5					3.4	2.8	4.0	2.8	3.1					2.7		3.9	2.8	3.8	2.9	3.6		
	Magnesium	ug/L	Tier 1	2960	10900			13000		749	4570				22100					25800	20800	29300	21100	22700					19500		25600	22900	31200	21700	22200		
	Manganese	ug/L	Tier 1							14.6																											
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1	11.6																																	
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1								536																										
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1		121																																
	Manganese	ug/L	Tier 1					591																													
	Manganese	ug/L	Tier 1																										237								
	Manganese	ug/L	Tier 1																		245																
	Manganese	ug/L	Tier 1																				248														
	Manganese	ug/L	Tier 1																															257			
	Manganese	ug/L	Tier 1												79.4																						
	Manganese	ug/L	Tier 1																																305		
	Manganese	ug/L	Tier 1																					294													
	Manganese	ug/L	Tier 1																													265					
	Manganese	ug/L	Tier 1																												1580						
	Manganese	ug/L	Tier 1																	1370																	
	Manganese	ug/L	Tier 1																			2700															
	Manganese	ug/L	Tier 1																														2520				
	Mercury - low level	ng/L	Tier 1	**1.89**	**5.94**			0.362 J		**3.76**	0.935				0.668					0.519	**2.22**	0.274 J	0.389 J	0.446 J					**2.74**		0.253 J	0.457 J	0.476 J	0.527	0.216 J		
	Molybdenum	ug/L	Tier 1	0.56 J	5 J			0.36 J		<0.11 U	<0.11 U				9.6 J					44.9	10.7	64.6	10.6	11.2					10.8		48.2	11.2	63	10.1	11.7		
	Nickel	ug/L	Tier 1							1.2																											
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1	0.91 J																																		
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1								0.67 J																											
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1																																			
	Nickel	ug/L	Tier 1		26.2																																	
	Nickel	ug/L	Tier 1					15.7																														
	Nickel	ug/L	Tier 1																										17									
	Nickel	ug/L	Tier 1																		16.6																	
	Nickel	ug/L	Tier 1																				16.1															
	Nickel	ug/L	Tier 1																															16.6				
	Nickel	ug/L	Tier 1												17.9																							
	Nickel	ug/L	Tier 1																															19.7				
	Nickel	ug/L	Tier 1																					18.8														
	Nickel	ug/L	Tier 1																													17.4						
	Nickel	ug/L	Tier 1																												219							
	Nickel	ug/L	Tier 1																	219																		
	Nickel	ug/L	Tier 1																			333																
	Nickel	ug/L	Tier 1																														286					
	Potassium	ug/L	Tier 1	1120	5370			2720		469 J	1680				7830					15400	7140	20000	7050	7380					7340		15500	7500	21400	7060	7260		
	Selenium	ug/L	Tier 1	0.23 J	0.33 J			<0.15 U		0.57 J	<0.15 U				<0.15 U					0.28 J	0.28 J	0.26 J	0.87 J	0.21 J					0.38 J		<0.15 U	<0.15 U	0.48 J	<0.15 U	0.58 J		
	Silver	ug/L	Tier 1	<0.11 P,U	<0.11 P,U			<0.11 P,U		0.2 J	<0.11 P,U				<0.11 P,U					<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U					<0.11 P,U		<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U		
	Sodium	ug/L	Tier 1	928	10300			7870		906	18700				10600					24200	10800	31300	10500	10700					11100		24700	11600	29600	12000	11800		
	Thallium	ug/L	Tier 1	<0.030 U	<0.030 U			<0.030 U		0.03 J	<0.030 U				<0.030 U					<0.030 U	<0.030 U	<0.030 U	<0.030 U	<0.030 U					<0.030 U		<0.030 U	<0.030 U	<0.030 U	<0.030 U	<0.030 U		
	Total Hardness	ug/L	Tier 1	32000	104000			130000		9300	46900				212000					232000	201000	255000	203000	218000					190000		231000	221000	270000	210000	214000		
	Vanadium	ug/L	Tier 1	<0.41 U	0.6 J			<0.41 U		0.41 J	0.58 J				0.61 J					<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U					<0.41 U		<0.41 U	<0.41 U	<0.41 U	<0.41 U	<0.41 U		
	Zinc	ug/L	Tier 1							8.4 J																												
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1	4.6 J																																		
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1								6 J																											
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1																																			
	Zinc	ug/L	Tier 1		8.2 J																																	
	Zinc	ug/L	Tier 1					6.8 J																														
	Zinc	ug/L	Tier 1																										5.4 J									
	Zinc	ug/L	Tier 1																		4.4 J																	
	Zinc	ug/L	Tier 1																				4.8 J															
	Zinc	ug/L	Tier 1																															3.8 J				
	Zinc	ug/L	Tier 1												5.8 J																							
	Zinc	ug/L	Tier 1																															4.8 J				
	Zinc	ug/L	Tier 1																					3.8 J														
	Zinc	ug/L	Tier 1																													4.8 J						
	Zinc	ug/L	Tier 1																												5.5 J							
	Zinc	ug/L	Tier 1																	6.4 J																		
	Zinc	ug/L	Tier 1																			6 J																
	Zinc	ug/L	Tier 1																														9 J					
	Inorganics																																					
	Bicarbonate Alkalinity	mg/L	Tier 1	28.9	59.9			64.4		<3.2 U	48.8				97.7					142	102	166	102	104					102		142	102	164	104	107		
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U	<3.2 U			<3.2 U		<3.2 U	<3.2 U				<3.2 U					<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U					<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U		
	Chloride	mg/L	Tier 1	2.4 J	15.4			14.8		2.3 J	37.7				12					22.9	12.2	27.4	13	12.8					12.2		23	12.2	27.7	12.1	12.9		
	COD	mg/L	Tier 1	30.8 J	53.2			15.2 J		26.4 J	24.1 J				19.6 J					13 J	13.0 J	19.6 J	<10.8 U	<10.8 U					15.2 J		15.2 J	15.2 J	15.2 J	15.2 J	<11.3 U		
	Cyanide	mg/L	Tier 1	<0.0060 P,U	<0.0060 P,U			<0.0060 P,U		<0.0060 P,U	<0.0060 P,U				<0.0060 P,U					0.008 J	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U					<0.0060 P,U		0.0077 J	<0.0060 P,U	0.011 J	<0.0060 P,U	<0.0060 P,U		
	Fluoride	mg/L	Tier 1	0.25 J	0.28 J			0.28 J		0.23 J	0.25 J				0.31 J					0.39 J	0.33 J	0.43 J	0.38 J	0.33 J					0.32 J		0.39 J	0.32 J	0.42 J	0.32 J	0.31 J		
	Gross Alpha	pCi/L	Tier 1	0.422 +/- 0.701	2.58 +/- 1.57			0.792 +/- 0.942		0.386 +/- 0.659	1.04 +/- 0.973				0.000 +/- 1.21					1.85 +/- 1.57	2.71 +/- 1.85	4.38 +/- 2.10	1.40 +/- 1.41	2.58 +/- 1.75					1.79 +/- 1.59		1.73 +/- 1.63	2.45 +/- 1.76	1.57 +/- 1.64	2.28 +/- 1.74	1.55 +/- 1.46		
	Gross Beta	pCi/L	Tier 1	1.45 +/- 0.974	5.49 +/- 1.81			2.79 +/- 1.21		1.31 +/- 0.972	2.37 +/- 1.15				7.29 +/- 1.69					15.7 +/- 3.30	8.60 +/- 2.28	20.2 +/- 4.14	9.52 +/- 2.44	7.19 +/- 2.01					7.42 +/- 1.99		16.5 +/- 3.70	7.05 +/- 2.02	15.9 +/- 3.62	7.57 +/- 2.09	6.79 +/- 1.91		
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U	<0.50 U			<0.50 U		<0.50 U	<0.50 U				<0.50 U					2.7	<0.50 U	5	<0.50 U	<0.50 U					<0.50 U		2.8	<0.50 U	5.0	<0.50 U	<0.50 U		
	Nitrogen, Nitrate	mg/L	Tier 1	0.19 J	0.2 J			0.39 J		0.28 J	0.16 J				2					2.5	2.1	1.2	2.1	2.2					2.0		2.4	2.1	1.4	2.0	2.2		
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U	<0.036 U			<0.036 U		<0.036 U	<0.036 U				<0.036 U					<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U					<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U		
	Sulfate	mg/L	Tier 1	5.3	74.3			75.8		7.8	2.5 J				133					169	133	180	129	144					134		175	134	180	137	148		
	Sulfide	mg/L	Tier 1	<2.3 U	<2.3 U			<2.3 U		<2.3 U	<2.3 U				<2.3 U					<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U					<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U		
	TOC as NPOC	mg/L	Tier 1	10	16.1			2.9		9.9	7.7				3.4					8.6	16	15.3	6.2	14					14.9		20.2	16.3	11.5	14.6	20.1		
	TOC as NPOC - Dissolved	mg/L	Tier 1	9.9	19.3			3.2		8.5	7.4				12.7					2.7	2.2	2.3	2.5	2.2					2.3		2.6	2.3	2.9	2.4	2.5		
	Total Alkalinity	mg/L	Tier 1	28.9	59.9			64.4		<3.2 U	48.8				97.7					142	102	166	102	104					102		142	102	164	104	107		
	Total Dissolved Solids	mg/L	Tier 1	58	188			204		36	116				304					430	340	466	342	360					348		430	338	436	336	350		
	Total Suspended Solids	mg/L	Tier 1	0.8 J	8.4			6.4		6.1	9.2				7.9					<0.33 U	<0.33 U	<0.31 U	<0.31 U	<0.33 U					0.4 J		<0.31 U	<0.31 U	<0.31 U	<0.31 U	<0.31 U		
7/1/2008	**Field Measurement**																																					
	Conductivity	mmhos	Tier 1	87	225				285	i	326					371																						
	Conductivity	mmhos	Tier 1	87	225				285	i	326					371																						
	Dissolved Oxygen	mg/L	Tier 1	3.34	3.03				2.64	i	0.13					7.11																						
	Flow	cfs	Tier 1	<0.1																																		
	ORP	mV	Tier 1	111.5	86				-2.4	i	-181					-54.8																						
	pH	S.U.	Tier 1	6.69	6.78				6.56	i	7.07					7.4																						
	Specific Conductance	umhos/cm @25 degrees C	Tier 1	98	270				381	i	396					446																						
	Temperature	Celcius	Tier 1	19.33	16.31				11.79	i	15.74					14.25																						
	Turbidity	NTU	Tier 1	2.1	5.7				18.6		51.1		1.3			1.2			1.6	1	1.8	1.6	1.7	1.6							0.96 J	1.4	1.6	1.6	1.6		
	Velocity	ft/s	Tier 1																																			
	Water Depth	ft	Tier 1																																			
	Metals																																					
	Aluminum	ug/L	Tier 1	60.4	80				3.2 J		49		12			20.2			6.5	3.2 J	5.8	14.9	35.9	4							3.0 J	4.5	7.7	6.1	3.1 J		
	Antimony	ug/L	Tier 1	<0.050 U	4.6				<0.050 U		0.064 J		9			8.9			29.3	8	7.1	38	7.1	6.9							28.4	7.0	37.9	7.2	8.1		
	Arsenic	ug/L	Tier 1	1.5	0.96				10.6		5		0.56			0.59			0.41	0.51	0.74	0.53	0.73	0.83							0.43	0.73	0.56	0.7	0.45		
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			
	Barium	ug/L	Tier 1																																			

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1								38.5																										
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1	11.2																																	
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1		14.9																																
	Barium	ug/L	Tier 1																		7.5																
	Barium	ug/L	Tier 1						38.6																												
	Barium	ug/L	Tier 1																					7.3													
	Barium	ug/L	Tier 1													8.9																					
	Barium	ug/L	Tier 1																				7.2														
	Barium	ug/L	Tier 1																													7.3					
	Barium	ug/L	Tier 1										8.2																					7.3			
	Barium	ug/L	Tier 1																																8.4		
	Barium	ug/L	Tier 1																	8.3																	
	Barium	ug/L	Tier 1																9.8																		
	Barium	ug/L	Tier 1																			12.9									9.5						
	Barium	ug/L	Tier 1																														12.8				
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
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	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1								<0.10 U																										
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1	<0.10 U																																	
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1		<0.10 U																																
	Beryllium	ug/L	Tier 1						<0.10 U												<0.10 U																
	Beryllium	ug/L	Tier 1																					<0.10 U													
	Beryllium	ug/L	Tier 1													<0.10 U																					
	Beryllium	ug/L	Tier 1																				<0.10 U														
	Beryllium	ug/L	Tier 1																													<0.10 U					
	Beryllium	ug/L	Tier 1										<0.10 U																					<0.10 U			
	Beryllium	ug/L	Tier 1																																<0.10 U		
	Beryllium	ug/L	Tier 1																	<0.10 U																	
	Beryllium	ug/L	Tier 1																<0.10 U																		
	Beryllium	ug/L	Tier 1																			<0.10 U									<0.10 U						
	Beryllium	ug/L	Tier 1																														<0.10 U				
	Boron	ug/L	Tier 1	13.9	56.1				63.2		27.8		78			79.2			118	78.9	71.8	139	73.5	73.4							140	72.6	154	73	73.3		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
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	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1								<0.050 U																										
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1	<0.050 U																																	
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	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1		<0.050 U																																
	Cadmium	ug/L	Tier 1																		<0.050 U																
	Cadmium	ug/L	Tier 1						<0.050 U																												
	Cadmium	ug/L	Tier 1																					<0.050 U													
	Cadmium	ug/L	Tier 1													<0.050 U																					
	Cadmium	ug/L	Tier 1																				<0.050 U														
	Cadmium	ug/L	Tier 1										<0.050 U																			<0.050 U				
	Cadmium	ug/L	Tier 1																															<0.050 U			
	Cadmium	ug/L	Tier 1																	<0.050 U																	
	Cadmium	ug/L	Tier 1																0.079 J																		
	Cadmium	ug/L	Tier 1																			0.087 J									<0.050 U						
	Cadmium	ug/L	Tier 1																														0.082 J				
	Calcium	ug/L	Tier 1	14200	23400				47700		14000		50000			49200			51800	50400	46100	51100	48200	47200							52200	48300	52400	48400	49800		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
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	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1								1.2																										
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1	0.77																																	
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1		1.1																																
	Chromium	ug/L	Tier 1																		1.4																
	Chromium	ug/L	Tier 1						0.4 J																												
	Chromium	ug/L	Tier 1																					0.37 J													
	Chromium	ug/L	Tier 1													0.55																					
	Chromium	ug/L	Tier 1																				3.9														
	Chromium	ug/L	Tier 1																													0.7					

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Chromium	ug/L	Tier 1										0.63																					1.5			
	Chromium	ug/L	Tier 1																																0.88		
	Chromium	ug/L	Tier 1																	0.4 J																	
	Chromium	ug/L	Tier 1																0.27 J																		
	Chromium	ug/L	Tier 1																			0.95									0.51						
	Chromium	ug/L	Tier 1																														0.9				
	Cobalt	ug/L	Tier 1	0.18	1.5				3.7		1.2		2.7			2.7			17.3	4.5	3.2	23.6	4.8	3.3							16.5	3.1	24.6	3.8	4.7		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
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	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1								0.56																										
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1	0.44																																	
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1		1.4																																
	Copper	ug/L	Tier 1																		1.4																
	Copper	ug/L	Tier 1						0.32																												
	Copper	ug/L	Tier 1																					1.4													
	Copper	ug/L	Tier 1													3.4																					
	Copper	ug/L	Tier 1																				1.4														
	Copper	ug/L	Tier 1																													1.5					
	Copper	ug/L	Tier 1										2.6																					1.4			
	Copper	ug/L	Tier 1																																2.0		
	Copper	ug/L	Tier 1																	2.0																	
	Copper	ug/L	Tier 1																2.9																		
	Copper	ug/L	Tier 1																			3.8									2.9						
	Copper	ug/L	Tier 1																														4				
	Iron	ug/L	Tier 1	1710	1380				7000		17000		63.8			87.7			96.4	192	171	123	171	208							100	125	122	140	196		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
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	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1								0.16																										
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1	0.25																																	
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1		0.22																																
	Lead	ug/L	Tier 1																		0.06 J																
	Lead	ug/L	Tier 1						<0.050 U																												
	Lead	ug/L	Tier 1																					<0.050 U													
	Lead	ug/L	Tier 1													<0.050 U																					
	Lead	ug/L	Tier 1																				0.15														
	Lead	ug/L	Tier 1																													<0.050 U					
	Lead	ug/L	Tier 1										<0.050 U																					<0.050 U			
	Lead	ug/L	Tier 1																																<0.050 U		
	Lead	ug/L	Tier 1																	<0.050 U																	
	Lead	ug/L	Tier 1																<0.050 U																		
	Lead	ug/L	Tier 1																			0.26									<0.050 U						
	Lead	ug/L	Tier 1																														0.31				
	Lithium	ug/L	Tier 1	1.3	1.3				2.2		0.17		2.9			3.0			3.4	3.2	3.0	3.4	3.1	3.1							3.6	2.9	3.6	2.9	3.0		
	Magnesium	ug/L	Tier 1	5610	11400				23300		5350		24000			23700			28400	26400	23300	31700	24700	24000							31000	24800	33300	25000	26300		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
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	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1								**1820**																										
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1	226																																	
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1		63.4																																
	Manganese	ug/L	Tier 1																		126																
	Manganese	ug/L	Tier 1						1440																												
	Manganese	ug/L	Tier 1																					139													
	Manganese	ug/L	Tier 1													24.5																					
	Manganese	ug/L	Tier 1																				111														
	Manganese	ug/L	Tier 1																													118					
	Manganese	ug/L	Tier 1										20.7																					105			
	Manganese	ug/L	Tier 1																																339		
	Manganese	ug/L	Tier 1																	356																	
	Manganese	ug/L	Tier 1																1750																		
	Manganese	ug/L	Tier 1																			2590									1650						
	Manganese	ug/L	Tier 1																														2550				
	Mercury - low level	ng/L	Tier 1	**4.75**	**6.49**				0.33 J		**2.48**		0.611			0.742			0.58	0.371 J	1.26	0.725	0.501	0.3 J							0.885	0.435 J	0.622	0.577	0.527		
	Molybdenum	ug/L	Tier 1	1.5	2.2				1.0		0.54		11.6			11.4			47.5	12.5	11	69.1	11.8	10.9							44.3	10.7	68.7	11.5	12.6		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1								1.2																										
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1	2.0																																	
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1		22.7																																
	Nickel	ug/L	Tier 1																		11																
	Nickel	ug/L	Tier 1						8.6																												
	Nickel	ug/L	Tier 1																					10.9													
	Nickel	ug/L	Tier 1													6.8																					
	Nickel	ug/L	Tier 1																				13														
	Nickel	ug/L	Tier 1																													10.4					
	Nickel	ug/L	Tier 1										5.7																					12.1			
	Nickel	ug/L	Tier 1																																21.8		
	Nickel	ug/L	Tier 1																	20.5																	
	Nickel	ug/L	Tier 1																**203**																		
	Nickel	ug/L	Tier 1																			**288**									**202**						
	Nickel	ug/L	Tier 1																														**303**				
	Potassium	ug/L	Tier 1	1010	4820				4640		2150		8130			8170			17500	9160	7980	22100	8440	8100							17700	8550	23000	8430	9230		
	Selenium	ug/L	Tier 1	0.28 J	<0.25 U				<0.25 U		<0.25 U		<0.25 U			<0.25 U			0.45 J	0.43 J	0.47 J	0.55	0.35 J	0.43 J							0.59	0.48 J	0.52	0.41 J	0.4 J		
	Silver	ug/L	Tier 1	<0.10 P,U	**0.15 J**				<0.10 P,U		<0.10 P,U		<0.10 P,U			<0.10 P,U			<0.10 P,U	<0.10 P,U	<0.10 P,U	<0.10 P,U	<0.10 P,U	<0.10 P,U							<0.10 P,U	<0.10 P,U	<0.10 P,U	<0.10 P,U	<0.10 P,U		
	Sodium	ug/L	Tier 1	1180	11000				7000		22300		12500			13300			26600	15100	12700	34900	13500	13200							27900	13800	35800	13800	15000		
	Thallium	ug/L	Tier 1	<0.050 U	<0.050 U				<0.050 U		<0.050 U		<0.050 U			<0.050 U			<0.050 U	<0.050 U	<0.050 U	<0.050 U	<0.050 U	<0.050 U							<0.050 U	<0.050 U	<0.050 U	<0.050 U	<0.050 U		
	Total Hardness	ug/L	Tier 1	58600	105000				215000		56900		224000			221000			246000	235000	211000	258000	222000	217000							258000	223000	268000	224000	233000		
	Vanadium	ug/L	Tier 1	0.51	0.57				0.3		1.2		0.16			0.18			<0.050 U	<0.050 U	<0.050 U	<0.050 U	0.31	0.056 J							<0.050 U	<0.050 U	<0.050 U	<0.050 U	<0.050 U		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1								2.8 J																										
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1	5.8																																	
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1		37.9																																
	Zinc	ug/L	Tier 1																		2.6 J																
	Zinc	ug/L	Tier 1						43.1																												
	Zinc	ug/L	Tier 1																					<2.5 U													
	Zinc	ug/L	Tier 1													**232**																					
	Zinc	ug/L	Tier 1																				<2.5 U														
	Zinc	ug/L	Tier 1																													2.6 J					
	Zinc	ug/L	Tier 1										3.2 J																					2.6 J			
	Zinc	ug/L	Tier 1																	2.6 J															3.6 J		
	Zinc	ug/L	Tier 1																4.8 J																		
	Zinc	ug/L	Tier 1																			4.2 J									3.1 J						
	Zinc	ug/L	Tier 1																														3.7 J				
	Inorganics																																				
	Bicarbonate Alkalinity	mg/L	Tier 1	57.2	74.8				103		57.2		103			101			165	139	101	165	101	108							123	101	174	101	106		
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U	<3.2 U				<3.2 U		<3.2 U		<3.2 U			<3.2 U			<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U							<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U		
	Chloride	mg/L	Tier 1	2.4 J	8.1				9.7		30.7		11.2			11.2			24.2	19.9	10.8	24.2	10.9	11.8							19.8	11	24.4	10.8	12		
	COD	mg/L	Tier 1	64.3	80				13 J		53.2		13 J			13 J			33 J	53.2	44.2 J	55.4	33 J	35.3 J							19.6 J	13 J	19.6 J	58.3	11.3 J		
	Cyanide	mg/L	Tier 1	<0.0060 P,U	<0.0060 P,U				<0.0060 P,U		<0.0060 P,U		**0.0075 J**			**0.007 J**			**0.017 J**	**0.011 J**	**0.0089 J**	**0.012 J**	**0.0088 J**	**0.008 J**							**0.011 J**	**0.0067 J**	**0.011 J**	**0.0065 J**	**0.0077 J**		
	Fluoride	mg/L	Tier 1	0.26 J	0.24 J				0.25 J		0.24 J		0.27 J			0.26 J			0.36 J	0.33 J	0.26 J	0.37 J	0.27 J	0.27 J							0.33 J	0.26 J	0.36 J	0.26 J	0.27 J		
	Gross Alpha	pCi/L	Tier 1	0.512 +/- 0.673	0.976 +/- 1.09		1.36 +/- 0.697		1.20 +/- 0.658		0.104 +/- 0.945					0.555 +/- 0.672			3.56 +/- 1.88	1.20 +/- 1.12	1.85 +/- 1.24	3.71 +/- 2.01	1.64 +/- 1.22	0.797 +/- 0.997							4.48 +/- 2.03	1.36 +/- 1.17	2.60 +/- 1.63	1.36 +/- 1.13	1.64 +/- 1.19		
	Gross Beta	pCi/L	Tier 1	2.46 +/- 1.12	2.78 +/- 1.47		5.34 +/- 1.16		3.70 +/- 0.872		1.62 +/- 1.24					5.00 +/- 1.11			15.3 +/- 3.31	6.51 +/- 1.64	5.35 +/- 1.45	14.8 +/- 3.16	5.03 +/- 1.40	6.47 +/- 1.77							13.6 +/- 2.98	6.29 +/- 1.62	19.1 +/- 4.04	5.83 +/- 1.51	7.78 +/- 1.89		
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U	<0.50 U				<0.50 U		<0.50 U		<0.50 U			<0.50 U			**4.6**	<0.50 U	<0.50 U	**4.7**	<0.50 U	<0.50 U							**2.2**	<0.50 U	**4.7**	<0.50 U	<0.50 U		
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U	**1.1**				0.25 J		0.24 J		**1.6**			**1.6**			**1.2**	**2.3**	**1.6**	**1.2**	**1.7**	**2.0**							**2.4**	**1.7**	**1.2**	**1.7**	**2.0**		
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U	<0.036 U				<0.036 U		<0.036 U		<0.036 U			<0.036 U			<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U							<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U		
	Sulfate	mg/L	Tier 1	2.5 J	33.4				98		4.3		125			126			168	159	125	164	126	134							161	122	163	127	134		
	Sulfide	mg/L	Tier 1	<2.3 U	<2.3 U				<2.3 U		<2.3 U		<2.3 U			<2.3 U			<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U							<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U		
	TOC as NPOC	mg/L	Tier 1	21	27				4.9		17.4		2.1			2.6			3.1	2.9	4.1	6.0	2.8	6.2							2.3	2.8	3.6	2.7	7.3		
	TOC as NPOC - Dissolved	mg/L	Tier 1	23.1	25.9				5.0		18.3		6.5			3.9			3.0	2.2	2.0	2.1	2.6	1.8 J							2.3	1.8 J	2.5	2.1	2.0		
	Total Alkalinity	mg/L	Tier 1	57.2	74.8				103		57.2		103			101			165	139	101	165	101	108							123	101	174	101	106		
	Total Dissolved Solids	mg/L	Tier 1	94	190				248		150		332			338			456	420	332	456	326	360							410	338	454	332	348		
	Total Suspended Solids	mg/L	Tier 1	2.7	10.6				8.9		33		1.6			6.3			<0.31 U	<0.31 U	0.9 J	<0.31 U	0.82 J	<0.32 U							<0.31 U	0.82 J	<0.31 U	0.84 J	<0.31 U		
10/3/2008	**Field Measurement**																																				
	Conductivity	mmhos	Tier 1	101	283			245						309																							132
	Conductivity	mmhos	Tier 1	101	283			245						309																							132
	Depth to Water	ft	Tier 1		0.05			1.59			2.01	1.55																									
	Dissolved Oxygen	mg/L	Tier 1	2.76	2.09			3.01						3.59																							9.3
	Flow	cfs	Tier 1	<0.1																																	
	GW Elevation	ft msl	Tier 1		1531.22			1543.49			1537.93	1534.14																									
	ORP	mV	Tier 1	222.1	-186.5			9.1						12.9																							143.7
	pH	S.U.	Tier 1	6.97	7.53			6.95						7.87																							7.7
	Specific Conductance	degrees C	Tier 1	143	415			366						440																							182
	Temperature	Celcius	Tier 1	9.59	8.34			7.65						9.42																							10.6
	Turbidity	NTU	Tier 1	3	25.1	30.8		25.5						1.3				0.95 J		1	1.9	1	2	1						1.8	0.77 J	1.8	0.96 J	1.7	0.95 J		2.7
	Velocity	ft/s	Tier 1																																		
	Water Depth	ft	Tier 1	1.35										0.67																							2.2
	Metals																																				
	Aluminum	ug/L	Tier 1	48.0 J	190 J	7.9 J		<4.5 U						11.6 J				4.7 J		<4.5 U	<4.5 U	<4.5 U	10.5 J	<4.5 U						<4.5 U	<4.5 U	<4.5 U	6.5 J	<4.5 U	<4.5 U		13.2 J
	Antimony	ug/L	Tier 1	0.28 J	6.3	<0.071 U		0.16 J						4.6				8.3		29.6	6.4	37.8	6.8	8.2						6.5	27	6.5	38	6.5	8.3		0.072 J
	Arsenic	ug/L	Tier 1	1.3	0.73 J	9		7.1						0.42 J				0.24 J		0.36 J	1	0.45 J	1.2	0.36 J						0.82 J	0.36 J	0.87 J	0.45 J	0.77 J	0.33 J		0.74 J
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
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	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		2.9
	Barium	ug/L	Tier 1	12.5																																	
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1																																		
	Barium	ug/L	Tier 1					41																													

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Barium	ug/L	Tier 1			45.3																															
	Barium	ug/L	Tier 1		17.1																																
	Barium	ug/L	Tier 1																		7.3																
	Barium	ug/L	Tier 1																															7.5			
	Barium	ug/L	Tier 1																											7.5							
	Barium	ug/L	Tier 1																													7.6					
	Barium	ug/L	Tier 1																				7.8														
	Barium	ug/L	Tier 1																					7.8													
	Barium	ug/L	Tier 1															7.9																			
	Barium	ug/L	Tier 1											19.3																					8		
	Barium	ug/L	Tier 1																												8.9						
	Barium	ug/L	Tier 1																	9.2																	
	Barium	ug/L	Tier 1																														12.2				
	Barium	ug/L	Tier 1																			12.9															
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
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	Beryllium	ug/L	Tier 1																																		
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	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		<0.41 U
	Beryllium	ug/L	Tier 1	<0.41 U																																	
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1																																		
	Beryllium	ug/L	Tier 1					<0.41 U																													
	Beryllium	ug/L	Tier 1			<0.41 U																															
	Beryllium	ug/L	Tier 1		<0.41 U																																
	Beryllium	ug/L	Tier 1																		<0.41 U																
	Beryllium	ug/L	Tier 1																															<0.41 U			
	Beryllium	ug/L	Tier 1																											<0.41 U							
	Beryllium	ug/L	Tier 1																													<0.41 U					
	Beryllium	ug/L	Tier 1																				<0.41 U														
	Beryllium	ug/L	Tier 1																					<0.41 U													
	Beryllium	ug/L	Tier 1															<0.41 U																			
	Beryllium	ug/L	Tier 1											<0.41 U																					<0.41 U		
	Beryllium	ug/L	Tier 1																												<0.41 U						
	Beryllium	ug/L	Tier 1																	<0.41 U																	
	Beryllium	ug/L	Tier 1																			<0.41 U											<0.41 U				
	Boron	ug/L	Tier 1	13.8	67.8	50.7		54.9						109				90.5		138	79.2	159	81.1	82.4						81.4	132	<1.1 U	157	84.2	89.9		27.8
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
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	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		<0.087 U
	Cadmium	ug/L	Tier 1	<0.087 U																																	
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1																																		
	Cadmium	ug/L	Tier 1					<0.087 U																													
	Cadmium	ug/L	Tier 1			<0.087 U																															
	Cadmium	ug/L	Tier 1		<0.087 U																																
	Cadmium	ug/L	Tier 1																		<0.087 U																
	Cadmium	ug/L	Tier 1																				<0.087 U											<0.087 U			
	Cadmium	ug/L	Tier 1																											<0.087 U							
	Cadmium	ug/L	Tier 1																													<0.087 U					
	Cadmium	ug/L	Tier 1																				0.094 J														
	Cadmium	ug/L	Tier 1																					<0.087 U													
	Cadmium	ug/L	Tier 1															<0.087 U																			
	Cadmium	ug/L	Tier 1											<0.087 U																					<0.087 U		
	Cadmium	ug/L	Tier 1																												<0.087 U						
	Cadmium	ug/L	Tier 1																	<0.087 U																	
	Cadmium	ug/L	Tier 1																														<0.087 U				
	Cadmium	ug/L	Tier 1																			<0.087 U															
	Calcium	ug/L	Tier 1	23600	43400	44100		42000						51800				50500		53000	47200	53200	49800	49900						48800	51600	49100	53000	48600	50900		11500
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		2.4
	Chromium	ug/L	Tier 1	0.45 J																																	
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1																																		
	Chromium	ug/L	Tier 1					0.39 J																													
	Chromium	ug/L	Tier 1			0.34 J																															
	Chromium	ug/L	Tier 1		1.2																																
	Chromium	ug/L	Tier 1																		0.60 J																
	Chromium	ug/L	Tier 1																															0.41 J			
	Chromium	ug/L	Tier 1																											0.56 J							
	Chromium	ug/L	Tier 1																													1.9					
	Chromium	ug/L	Tier 1																				3.1														
	Chromium	ug/L	Tier 1																					1.7													
	Chromium	ug/L	Tier 1															<0.30 U																			
	Chromium	ug/L	Tier 1											<0.30 U																					<0.30 U		
	Chromium	ug/L	Tier 1																												0.50 J						
	Chromium	ug/L	Tier 1																	0.90 J																	
	Chromium	ug/L	Tier 1																														0.47 J				
	Chromium	ug/L	Tier 1																			<0.30 U															
	Cobalt	ug/L	Tier 1	0.19 J	1.5	5.6		6.2						1.5				4.7		17	2.6	23.8	3.3	4.7						2.6	15.7	2.6	23.7	2.6	4.7		<0.077 U
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		0.79 J
	Copper	ug/L	Tier 1	<0.50 U																																	
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1																																		
	Copper	ug/L	Tier 1					<0.50 U																													
	Copper	ug/L	Tier 1			<0.50 U																															
	Copper	ug/L	Tier 1		4.2																																
	Copper	ug/L	Tier 1																		1.5																
	Copper	ug/L	Tier 1																														1.3				
	Copper	ug/L	Tier 1																											1.3							
	Copper	ug/L	Tier 1																													1.3					
	Copper	ug/L	Tier 1																				1.7														
	Copper	ug/L	Tier 1																					1.9													
	Copper	ug/L	Tier 1															2																			
	Copper	ug/L	Tier 1											1.5																					1.8		
	Copper	ug/L	Tier 1																												2.8						
	Copper	ug/L	Tier 1																	2.8																	
	Copper	ug/L	Tier 1																														3.2				
	Copper	ug/L	Tier 1																			3.2															
	Iron	ug/L	Tier 1	1360	556	7570		6960						237 J				70.0 J		65.9 J	238 J	61.0 J	271	76.6 J						239 J	60.0 J	269	62.3 J	239 J	82.4 J		352
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
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	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		<0.50 U
	Lead	ug/L	Tier 1	<0.50 U																																	
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1																																		
	Lead	ug/L	Tier 1					<0.50 U																													
	Lead	ug/L	Tier 1			<0.50 U																															
	Lead	ug/L	Tier 1		1																																
	Lead	ug/L	Tier 1																		<0.50 U																
	Lead	ug/L	Tier 1																														<0.50 U				
	Lead	ug/L	Tier 1																											<0.50 U							
	Lead	ug/L	Tier 1																							<0.50 U											
	Lead	ug/L	Tier 1																				<0.50 U														
	Lead	ug/L	Tier 1																					<0.50 U													
	Lead	ug/L	Tier 1															<0.50 U																			
	Lead	ug/L	Tier 1											<0.50 U																					<0.50 U		
	Lead	ug/L	Tier 1																												<0.50 U						
	Lead	ug/L	Tier 1																	<0.50 U																	
	Lead	ug/L	Tier 1																			<0.50 U											<0.50 U				
	Lithium	ug/L	Tier 1	1.7	2.3	2.6		2.6						0.63 J				3.5		3.7	3.4	3.8	3.5	3.4						3.3	3.6	3.4	3.8	3.4	3.4		5.5
	Magnesium	ug/L	Tier 1	9320	21800	20400		20100						24100				24800		28800	22900	30100	24100	24600						23400	27800	23300	30000	23300	24800		7920
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		6.5
	Manganese	ug/L	Tier 1	196																																	
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1																																		
	Manganese	ug/L	Tier 1					1250																													
	Manganese	ug/L	Tier 1			1310																															
	Manganese	ug/L	Tier 1		34.8																																
	Manganese	ug/L	Tier 1																		59.6																
	Manganese	ug/L	Tier 1																															62.5			
	Manganese	ug/L	Tier 1																											63.3							
	Manganese	ug/L	Tier 1																													62.8					
	Manganese	ug/L	Tier 1																				62.2														
	Manganese	ug/L	Tier 1																					331													
	Manganese	ug/L	Tier 1															341																			
	Manganese	ug/L	Tier 1											71.1																					354		
	Manganese	ug/L	Tier 1																												1420						
	Manganese	ug/L	Tier 1																	1560																	
	Manganese	ug/L	Tier 1																														2500				
	Manganese	ug/L	Tier 1																			2490															
	Mercury - low level	ng/L	Tier 1	**1.79**	**4.24**	0.245 J		0.205 J						0.986				0.266 J		0.290 J	0.404 J	0.354 J	0.360 J	0.303 J						0.386 J	1	0.287 J	0.308 J	0.208 J	0.160 J		0.664
	Molybdenum	ug/L	Tier 1	1.1	8.2	0.94 J		1.3						8.9				12.2		45.4	10	65.8	11.3	12.2						10.2	41.8	10.2	65.9	10	12.3		0.98 J
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		3
	Nickel	ug/L	Tier 1	1.1																																	
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1																																		
	Nickel	ug/L	Tier 1					16.9																													
	Nickel	ug/L	Tier 1			15.4																															
	Nickel	ug/L	Tier 1		15																																
	Nickel	ug/L	Tier 1																		7.7																
	Nickel	ug/L	Tier 1																															7.9			
	Nickel	ug/L	Tier 1																											8							
	Nickel	ug/L	Tier 1																													8					
	Nickel	ug/L	Tier 1																				9.5														
	Nickel	ug/L	Tier 1																					23.6													
	Nickel	ug/L	Tier 1															24.4																			
	Nickel	ug/L	Tier 1											6.9																					24.4		

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	EBR-001	HMP-004	HMP-005	HMP-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	HMP-009	HMP-009	HMP-009	HMP-009	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-003	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HPL-004	HTP-001
			Field ID	EBR-001	HMP-004	Dup-003	Dup-005	HMP-005	HMP-005	HMP-006	HMP-007	HMP-008	Dup-005	HMP-009	HMP-009	HMP-009	Dup-003	Dup-004	Dup-004	HPL-003 120'	HPL-003 15'	HPL-003 175'	HPL-003 3'	HPL-003 60'	HPL-003 120'	HPL-003 15'	HPL-003 183'	Dup-004	Dup-004	Dup-005	HPL-004 120'	HPL-004 15'	HPL-004 175'	HPL-004 3'	HPL-004 60'	HPL-004 186'	HTP-001
			Sample Depth	NA	NA	NA	0.2	NA	0.2	NA	NA	NA	0.2	NA	0.2	0.4	60	60	175	120	15	175	3	60	120	15	183	175	3	3	120	15	175	3	60	186	0.5
	Nickel	ug/L	Tier 1																												**194**						
	Nickel	ug/L	Tier 1																	**212**																	
	Nickel	ug/L	Tier 1																														**297**				
	Nickel	ug/L	Tier 1																			**296**															
	Potassium	ug/L	Tier 1	2200	13100	4150		4210						8490				8840		16800	7530	21100	7990	8700						7820	16000	7780	21100	7750	8890		2740
	Selenium	ug/L	Tier 1	0.25 J	<0.25 U	<0.25 U		0.27 J						<0.25 U				<0.25 U		<0.25 U	0.32 J	<0.25 U	0.50 J	<0.25 U						<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U		0.28 J
	Silver	ug/L	Tier 1	<0.25 P,U	<0.25 P,U	<0.25 P,U		<0.25 P,U						<0.25 P,U				<0.25 P,U		<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U						<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U		<0.25 P,U
	Sodium	ug/L	Tier 1	2480	12400	6800		6980						13900				13800		23800	11800	29200	12500	13700						12100	22400	12100	29000	12100	13800		355
	Thallium	ug/L	Tier 1	0.14 J	0.22 J	<0.019 U		0.91 J						0.18 J				0.071 J		0.14 J	0.41 J	0.11 J	0.40 J	0.16 J						<0.019 U	0.038 J	0.031 J	0.031 J	0.024 J	0.072 J		0.083 J
	Total Hardness	ug/L	Tier 1	97300	198000	194000		188000						229000				228000		251000	212000	257000	223000	226000						218000	243000	219000	256000	217000	229000		61400
	Vanadium	ug/L	Tier 1	<0.45 U	<0.45 U	<0.45 U		<0.45 U						<0.45 U				<0.45 U		<0.45 U	<0.45 U	<0.45 U	<0.45 U	<0.45 U						<0.45 U	<0.45 U	<0.45 U	<0.45 U	<0.45 U	<0.45 U		0.47 J
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
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	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		2.7 J
	Zinc	ug/L	Tier 1	4.2 J																																	
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1																																		
	Zinc	ug/L	Tier 1					5																													
	Zinc	ug/L	Tier 1			4.8 J																															
	Zinc	ug/L	Tier 1		**218**																																
	Zinc	ug/L	Tier 1																		3.9 J																
	Zinc	ug/L	Tier 1																															9			
	Zinc	ug/L	Tier 1																											4.0 J							
	Zinc	ug/L	Tier 1																													3.0 J					
	Zinc	ug/L	Tier 1																				3.7 J														
	Zinc	ug/L	Tier 1																					5													
	Zinc	ug/L	Tier 1															4.2 J																			
	Zinc	ug/L	Tier 1											3.8 J																				3.5 J			
	Zinc	ug/L	Tier 1																												5.8						
	Zinc	ug/L	Tier 1																	4.7 J																	
	Zinc	ug/L	Tier 1																														5.1				
	Zinc	ug/L	Tier 1																			4.7 J															
	Inorganics																																				
	Bicarbonate Alkalinity	mg/L	Tier 1	84.6	95	99.4		97.2						123				106		134	99.4	160	102	106						102	134	104	162	99.4	104		49.9
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U	<3.2 U	<3.2 U		<3.2 U						<3.2 U				<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U						<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U
	Chloride	mg/L	Tier 1	2.8 J	16.3	9.2		9.2						10.6				12.3		20.4	11.1	24.8	11.1	12.2						11.1	19.5	11.2	23.9	11.2	12.1		2.3 J
	COD	mg/L	Tier 1	42.0 J	55.4	15.2 J		13.0 J						<10.8 U				<10.8 U		19.6 J	<10.8 U	17.4 J	<10.8 U	<10.8 U						17.4 J	19.6 J	13.6 J	17.4 J	15.2 J	<10.8 U		33.0 J
	Cyanide	mg/L	Tier 1	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U		<0.0060 P,U						<0.0060 P,U				<0.0060 P,U		**0.010 J**	<0.0060 P,U	**0.010 J**	<0.0060 P,U	**0.0078 J**						<0.0060 P,U	**0.0067 J**	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U		<0.0060 P,U
	Fluoride	mg/L	Tier 1	0.29 J	0.25 J	0.24 J		0.24 J						0.27 J				0.30 J		0.37 J	0.30 J	0.40 J	0.29 J	0.30 J						0.29 J	0.36 J	0.29 J	0.40 J	0.29 J	0.30 J		0.29 J
	Gross Alpha	pCi/L	Tier 1	0.770 +/- 0.630	1.16+/-0.776	0.941+/-0.509		0.328+/-0.580						1.64+/-0.750				2.17 +/- 1.29		2.07 +/- 1.31	2.19 +/- 1.07	2.95 +/- 1.02	2.40 +/- 1.06	1.10 +/- 1.15						1.96 +/- 1.01	1.62 +/- 1.74	1.87 +/- 1.26	2.46 +/- 1.22	1.39 +/- 0.813	1.84 +/- 0.755		0.713 +/- 0.620
	Gross Beta	pCi/L	Tier 1	1.73 +/- 0.685	10.1+/-2.02	2.74+/-0.706		3.36+/-0.849						3.53+/-0.975				5.50 +/- 1.52		10.8 +/- 2.40	3.20 +/- 1.24	12.9 +/- 2.57	4.21 +/- 1.09	5.00 +/- 1.75						3.00 +/- 1.12	10.6 +/- 2.53	5.10 +/- 1.49	12.1 +/- 2.62	3.85 +/- 1.09	5.19 +/- 1.20		2.36 +/- 0.801
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U	<0.50 U	<0.50 U		<0.50 U						<0.50 U				<1 U		2.2	0.13	4.4	<0.50 U	0.17						<0.50 U	47.9	<0.50 U	4.2	<0.50 U	4.1		<0.50 U
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U	0.9	0.25 J		0.20 J						0.30 J				2.1		2.3	1.6	1.2	1.6	2.1						1.5	2.2	1.6	1.1	1.5	2		<0.085 U
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U	<0.036 U	<0.036 U		<0.036 U						<0.036 U				<0.036 U		0.070 J	<0.036 U	<0.036 U	<0.036 U	<0.036 U						<0.036 U	0.070 J	<0.036 U	<0.036 U	<0.036 U	<0.036 U		<0.036 U
	Sulfate	mg/L	Tier 1	2.3 J	108	92.2		82.5						118				145		171	135	181	132	143						137	172	136	181	135	145		13.8
	Sulfide	mg/L	Tier 1	<2.3 U	<2.3 U	<2.3 U		<2.3 U						<2.3 U				<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U						15	15.2	3.2 J	3.0 J	14	2.8 J		<2.3 U
	TOC as NPOC	mg/L	Tier 1	13.2	9.2	3.2		3						2.9				2.3		2.3	2.4	2.5	2.4	2.2						4.2	4.8	5	6.5	5.4	4.3		9.8
	Dissolved	mg/L	Tier 1	12.2	6.7	4		3.8						4				2.5		2.6	2.7	2.9	3.6	2.7						3	2.8	3.3	2.5	3.6	2.9		10.2
	Total Alkalinity	mg/L	Tier 1	84.6	95	99.4		97.2						123				106		134	99.4	160	102	106						102	134	104	162	99.4	104		49.9
	Total Dissolved Solids	mg/L	Tier 1	112	308	264		264						330				342		412	322	446	320	434						328	426	318	448	308	354		70
	Total Suspended Solids	mg/L	Tier 1	1.6	12.6	9.3		7.4						7.4				<0.31 U		<0.31 U	0.70 J	<0.31 U	0.60 J	<0.31 U						0.50 J	<0.31 U	0.60 J	<0.31 U	0.60 J	<0.31 U		4

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/18/2008	**Field Measurement**																																		
	Dissolved Oxygen	mg/L	Tier 1		f							<1.0					6.8				5.98				10.79		9.3		8.96	8.8	5	4.07		3.2	
	Flow	cfs	Tier 1																						2.29004		19		18.7	17.3	0.05	0.2		0.42	
	Iron, Ferrous	ug/L	Tier 1																																
	ORP	mV	Tier 1		f							-211.5					104				108				92.7		102		64	64	234	-22		53	
	pH	S.U.	Tier 1		f							6.85					6.98				6.89				6.84		6.8		6.7	6.9	5.6	6.5		6.4	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1		f							157					75				76				148		81		104	120	112	272		224	
	Temperature	Celcius	Tier 1		f							3.17					4.01				4.21				0		0		0.02	0.02	0.01	1.33		0.04	
	Turbidity	NTU	Tier 1						6.9			6.6					1.1				0.99 J			4.7	4.9	3.3	4.3		5.1	4.5	1.9	10	14	13	
	Velocity	ft/s	Tier 1																																
	Water Depth	ft	Tier 1																																
	Metals																																		
	Aluminum	ug/L	Tier 1						5.1 J			11 J					8 J				6.8 J			37.1 J	40 J	83	77		62	64	210	57	43 B	38 B	
	Antimony	ug/L	Tier 1						<0.10 U			<0.10 U					<0.10 U				<0.10 U			<0.10 U	0.1 J	<0.10 U	<0.10 U		<0.10 U	0.14 B	<0.10 U	<0.10 U	0.27 B	<0.10 U	
	Arsenic	ug/L	Tier 1						1.2			1.1					0.61 J				0.54 J			0.79 J	0.76 J	0.85 B	0.70 B		1.0	1.1	0.98 B	1.9	1.2	1.1	
	Barium	ug/L	Tier 1																												11				
	Barium	ug/L	Tier 1																							7.9	7.9								
	Barium	ug/L	Tier 1																		3.5														
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1														3.0																		
	Barium	ug/L	Tier 1																										8.3						
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																											9.3					
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																													16			
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																					11.1											
	Barium	ug/L	Tier 1																														11		
	Barium	ug/L	Tier 1																															11	
	Barium	ug/L	Tier 1																						11.6										
	Barium	ug/L	Tier 1									13.8																							
	Barium	ug/L	Tier 1						14.9																										
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
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	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																												<0.070 U				
	Beryllium	ug/L	Tier 1																							<0.070 U	<0.070 U								
	Beryllium	ug/L	Tier 1																		<0.070 U														
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1														<0.070 U																		
	Beryllium	ug/L	Tier 1																										<0.070 U						
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																											<0.070 U					
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																					<0.070 U											
	Beryllium	ug/L	Tier 1																														0.13 B		
	Beryllium	ug/L	Tier 1																															<0.070 U	
	Beryllium	ug/L	Tier 1																					<0.070 U											
	Beryllium	ug/L	Tier 1									<0.070 U																							
	Beryllium	ug/L	Tier 1						<0.070 U																										
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Boron	ug/L	Tier 1						31			28.9					12.7				12.3			12.5	16.1	6.6 B	6.9 B		7.3 B	11	7.9 B	14	21	14	
	Cadmium	ug/L	Tier 1																												<0.097 U				
	Cadmium	ug/L	Tier 1																							<0.097 U	<0.097 U								
	Cadmium	ug/L	Tier 1																		<0.098 U														
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1														<0.098 U																		
	Cadmium	ug/L	Tier 1																										<0.097 U						
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																					<0.098 U											
	Cadmium	ug/L	Tier 1																														<0.097 U		
	Cadmium	ug/L	Tier 1																															<0.097 U	
	Cadmium	ug/L	Tier 1																						<0.098 U										
	Cadmium	ug/L	Tier 1									<0.098 U																							
	Cadmium	ug/L	Tier 1						<0.098 U																										
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
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	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Calcium	ug/L	Tier 1						15200			14200					8480				8340			11900	12500	9400	9300		9700	11000	6100	11000	12000	12000	
	Chromium	ug/L	Tier 1																												0.57 B				
	Chromium	ug/L	Tier 1																							0.81 B	0.57 B								
	Chromium	ug/L	Tier 1																		0.47 J														
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1														<0.43 U																		
	Chromium	ug/L	Tier 1																										0.43 B						
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																											<0.43 U					
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																													0.72 B			

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																					<0.43 U											
	Chromium	ug/L	Tier 1																														0.52 B		
	Chromium	ug/L	Tier 1																															0.53 B	
	Chromium	ug/L	Tier 1																						0.51 J										
	Chromium	ug/L	Tier 1									<0.43 U																							
	Chromium	ug/L	Tier 1						<0.43 U																										
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Cobalt	ug/L	Tier 1						0.28 J			0.28 J					<0.059 U				<0.059 U			0.36 J	0.34 J	0.13 B	0.13 B		0.30 B	0.31 B	0.34 B	1.9	2.2	2.1	
	Copper	ug/L	Tier 1																												0.53 B				
	Copper	ug/L	Tier 1																							0.55 B	0.57 B								
	Copper	ug/L	Tier 1																		0.53 J														
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1														0.31 J																		
	Copper	ug/L	Tier 1																										0.49 B						
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																											0.48 B					
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																													0.62 B			
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																					0.51 J											
	Copper	ug/L	Tier 1																														1.0		
	Copper	ug/L	Tier 1																															0.66 B	
	Copper	ug/L	Tier 1																						0.29 J										
	Copper	ug/L	Tier 1									0.75 J																							
	Copper	ug/L	Tier 1						0.13 J																										
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Iron	ug/L	Tier 1						2810			2660					155				235			1490	1590	1200	1200		1500	1500	1900	10000	4700	4900	
	Lead	ug/L	Tier 1																												0.71 B				
	Lead	ug/L	Tier 1																							0.15 B	0.16 B								
	Lead	ug/L	Tier 1																		0.05 J														
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1														<0.043999999762 U																		
	Lead	ug/L	Tier 1																										0.30 B						
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																											0.10 B					
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																													0.24 B			
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																					0.16 J											
	Lead	ug/L	Tier 1																														0.29 B		
	Lead	ug/L	Tier 1																															0.24 B	
	Lead	ug/L	Tier 1																						0.16 J										
	Lead	ug/L	Tier 1									0.06 J																							
	Lead	ug/L	Tier 1						<0.044 U																										
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lithium	ug/L	Tier 1						4.4			3.8					0.98 J				1.1			1.2	1.2	0.51 B	0.53 B		0.58 B	0.66 B	0.57 B	1.2	1.1	1.0	
	Magnesium	ug/L	Tier 1						7300			6880					3310				3230			4990	5220	2600	2600		2500	3300	2500	4900	5200	5300	
	Manganese	ug/L	Tier 1																												120				
	Manganese	ug/L	Tier 1																							66	65								
	Manganese	ug/L	Tier 1																		214														
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1														152																		
	Manganese	ug/L	Tier 1																										95						
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																											100					
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																													**1200**			
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																					302											
	Manganese	ug/L	Tier 1																														**1300**		
	Manganese	ug/L	Tier 1																															**1300**	
	Manganese	ug/L	Tier 1																						336										
	Manganese	ug/L	Tier 1									454																							
	Manganese	ug/L	Tier 1						497																										
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Mercury - low level	ng/L	Tier 1						**1.41**			**1.45**					0.507				0.561			**1.63**	**2.03**	**2.5**	**2.43**		**2.26**	**2.2**	**6.16**	**2.74**	**1.86**	**2.04**	
	Molybdenum	ug/L	Tier 1						0.58 J			0.5 J					0.68 J				0.66 J			0.44 J	0.54 J	0.21 B	0.21 B		0.21 B	0.34 B	<0.12 U	0.27 B	0.48 B	0.21 B	
	Nickel	ug/L	Tier 1																												0.71 B				

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	ug/L	Tier 1																							0.51 B	0.55 B								
	Nickel	ug/L	Tier 1																		1.7														
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1														1.4																		
	Nickel	ug/L	Tier 1																										0.71 B						
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																											0.82 B					
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																													2.2			
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																					1.3											
	Nickel	ug/L	Tier 1																														2.9		
	Nickel	ug/L	Tier 1																															3.0	
	Nickel	ug/L	Tier 1																						1.4										
	Nickel	ug/L	Tier 1									1.8																							
	Nickel	ug/L	Tier 1						1.9																										
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
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	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Potassium	ug/L	Tier 1						2850			2680					1160				1130			1500	1580	530	530		610	750	540	2100	1600	1600	
	Selenium	ug/L	Tier 1						<0.15 U			<0.15 U					0.53 J				<0.15 U			<0.15 U	<0.15 U	<0.15 U	<0.15 U		<0.15 U	<0.15 U	<0.15 U	<0.15 U	<0.15 U	<0.15 U	
	Silver	ug/L	Tier 1						<0.11 P,U			<0.11 P,U					<0.11 P,U				<0.11 P,U			<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U		<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U	
	Sodium	ug/L	Tier 1						2000			1870					998				974			8480	9480	2500	2400		3800	4900	8300	23000	16000	16000	
	Thallium	ug/L	Tier 1						<0.03 U			<0.03 U					<0.030 U				<0.030 U			<0.030 U	<0.030 U	<0.030 U	<0.030 U		0.040 B	<0.030 U	0.070 B	0.12 B	0.21 B	0.070 B	
	Total Hardness	ug/L	Tier 1						68000			63700					34800				34100			50200	52600	34000	34000		35000	42000	25000	48000	51000	52000	
	Vanadium	ug/L	Tier 1						<0.41 U			<0.41 U					<0.41 U				<0.41 U			<0.41 U	<0.41 U	0.57 B	0.56 B		0.54 B	0.58 B	0.68 B	<0.41 U	<0.41 U	<0.41 U	
	Zinc	ug/L	Tier 1																												9.8 B				
	Zinc	ug/L	Tier 1																							6.2 B	36								
	Zinc	ug/L	Tier 1																		9.5 J														
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1														5.5 J																		
	Zinc	ug/L	Tier 1																										5.9 B						
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																											6.6 B					
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																													8.8 B			
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																					7.8 J											
	Zinc	ug/L	Tier 1																														11		
	Zinc	ug/L	Tier 1																															15	
	Zinc	ug/L	Tier 1																						7.2 J										
	Zinc	ug/L	Tier 1									6.1 J																							
	Zinc	ug/L	Tier 1						5.0 J																										
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
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	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Inorganics																																		
	Bicarbonate Alkalinity	mg/L	Tier 1						71			73.3					35.5				35.5			42.2	37.7	24	36		27	20	6.7 B	29	36	33	
	Carbonate Alkalinity	mg/L	Tier 1						<3.2 U			<3.2 U					<3.2 U				<3.2 U			<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	
	Chloride	mg/L	Tier 1						2.5 J			3.1 J					2.4 J				2.4 J			16.7	16.7	5.5	5.4		7.8	9.3	20	51	36	36	
	COD	mg/L	Tier 1						35.3 J			30.8 J					28.6 J				33 J			39.5 J	37.5 J	35 B	33 B		30 B	33 B	93	73	42 B	58	
	Cyanide, total	mg/L	Tier 1						**0.0079 J**			**0.0084 J**					**0.0082 J**				**0.0092 J**			**0.01 J**	**0.01 J**	<0.0060 P,U	<0.0060 P,U		<0.0060 P,U	<0.0060 P,U	**0.0098 B**	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	
	Fluoride	mg/L	Tier 1						0.41 J			0.47 J					0.26 J				0.26 J			0.28 J	0.29 J	<0.059 U	<0.059 U		<0.059 U	<0.059 U	<0.059 U	<0.059 U	0.20 B	0.21 B	
	Gross Alpha	pCi/L	Tier 1						0.341 +/- 0.521			-0.079 +/- 0.327					0.317 +/- 0.716				-0.037 +/- 0.424			-0.391 +/- 0.601	0.483 +/- 0.625	0.315 +/- 0.788	0.477 +/- 0.806		0.874 +/- 0.931	0.462 +/- 0.302	0.387 +/- 0.344	0.439 +/- 0.696	0.582 +/- 0.454	0.373 +/- 0.375	
	Gross Beta	pCi/L	Tier 1						3.58 +/- 1.32			2.59 +/- 1.07					0.958 +/- 0.956				1.54 +/- 0.985			1.14 +/- 1.11	1.62 +/- 1.05	0.962 +/- 0.872	0.183 +/- 0.717		1.54 +/- 0.982	0.902 +/- 0.426	0.731 +/- 0.464	1.55 +/- 0.966	1.45 +/- 0.512	1.80 +/- 0.576	
	Nitrogen, Ammonia	mg/L	Tier 1						<0.5 U			<0.5 U					<0.5 U				<0.5 U			<0.5 U	<0.5 U	<0.50 U	<0.50 U		<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	
	Nitrogen, Nitrate	mg/L	Tier 1						<0.085 U			0.19 J					0.22 J				0.21 J			0.18 J	0.17 J	<0.085 U	<0.085 U		0.41	<0.085 U	0.18 B	<0.085 U	0.16 B	0.15 B	
	Nitrogen, Nitrite	mg/L	Tier 1						0.1			0.13					0.1				<0.040 U			<0.040 U	<0.040 U	<0.036 U	<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	
	Sulfate	mg/L	Tier 1						3.3 J			<0.51 U					3.9 J				3.9 J			6	6	7.3	7.2		10	11	8.3	8.4	13	13	
	Sulfide	mg/L	Tier 1						<2.3 U			<2.3 U					<2.3 U				<2.3 U			<2.3 U	<2.3 U	<2.3 U	<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	
	TOC as NPOC	mg/L	Tier 1						10.1			9					6.9				7.4			12.7	11.8	9.7	11		9.5	9.4	32	20	14	14	
	TOC as NPOC - Dissolved	mg/L	Tier 1						10.4			9.2					7.9				6.8			13	12.4	11	11		9.7	11	36	25	15	15	
	Total Alkalinity	mg/L	Tier 1						71			73.3					35.5				35.5			42.2	37.7	24	36		27	20	6.7 B	29	36	33	
	Total Dissolved Solids	mg/L	Tier 1						86			84					48				50			82	98	36	74		76	80	140	160	140	140	
	Total Suspended Solids	mg/L	Tier 1						5.7			3.6					0.4 J				0.4 J			5.2	4.6	1.4 B	1.6 B		1.6 B	1.5	1.1 B	8.6	6.2	6.0	
4/30/2008	**Field Measurement**																																		
	Conductivity	mmhos	Tier 1			66				61					43					43					58		25		26	29	50	86		83	
	Conductivity	mmhos	Tier 1			66				61					43					43					58		25		26	29	50	86		83	
	Depth to Water	ft	Tier 1																																
	Dissolved Oxygen	mg/L	Tier 1			11.11				9.42					9.88					9.71					9.33		9.7		9.0	9.8	8.0	9.0		5.12	
	Flow	cfs	Tier 1																						14.794		106.246565		114.18325	129.00775	1.9296	4.012		5.7745	
	GW Elevation	ft msl	Tier 1																																
	Iron, Ferrous	ug/L	Tier 1																																
	ORP	mV	Tier 1			23.3				47.1					39.4					26.5					83		114		NM	134	NM	NM		112.5	
	pH	S.U.	Tier 1			7.17				6.77					6.49					6.47					6.8		6.41		5.66	5.65	NM	6.27		6.26	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1			85				87					64					64					88		37		38	42	76	124		125	
	Temperature	Celcius	Tier 1			13.69				9.47					8.01					7.8					7.1		8.02		8.38	8.85	6.98	9.01		7.62	
	Turbidity	NTU	Tier 1			4.1		4.0		4.3			1.9		2.0					1.9		1.7			1.7		1.7		1.4	1.8	1.0	8.5		4.3	
	Metals																																		
	Aluminum	ug/L	Tier 1			9.6 J		8.6 J		8.0 J			7.9 J		31.7 J					9.1 J		76.9			73.4		120		126	116	179	77.3		42.2 J	
	Antimony	ug/L	Tier 1			<0.10 U		0.18 J		<0.10 U			0.12 J		0.24 J					0.3 J		0.25 J			0.26 J		<0.10 U		<0.10 U	<0.10 U	<0.10 U	<0.10 U		0.11 J	
	Arsenic	ug/L	Tier 1			0.3 J		1.6		1.3			0.7 J		0.85 J					0.84 J		0.81 J			0.75 J		0.43 J		0.59 J	0.52 J	0.69 J	1.1		0.8 J	
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																										6.4						
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																												8.8				
	Barium	ug/L	Tier 1																								7.3								
	Barium	ug/L	Tier 1																											7.0					
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																						6.2										
	Barium	ug/L	Tier 1																			6.2										7.7			
	Barium	ug/L	Tier 1																															5.9	
	Barium	ug/L	Tier 1												3.9																				
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1										4.1																						
	Barium	ug/L	Tier 1																	3.9															
	Barium	ug/L	Tier 1							6.3																									

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	ug/L	Tier 1			3.0																													
	Barium	ug/L	Tier 1					7.3																											
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
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	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																									<0.070 P,U							
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																												<0.070 P,U				
	Beryllium	ug/L	Tier 1																							<0.070 P,U									
	Beryllium	ug/L	Tier 1																											<0.070 P,U					
	Beryllium	ug/L	Tier 1																											<0.070 P,U					
	Beryllium	ug/L	Tier 1																						**0.07 J**										
	Beryllium	ug/L	Tier 1																			**0.1 J**										<0.070 P,U			
	Beryllium	ug/L	Tier 1																															<0.070 U	
	Beryllium	ug/L	Tier 1												<0.070 U																				
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1										<0.070 U																						
	Beryllium	ug/L	Tier 1																	**0.16 J**															
	Beryllium	ug/L	Tier 1							<0.070 U																									
	Beryllium	ug/L	Tier 1			<0.070 U																													
	Beryllium	ug/L	Tier 1					0.08 J																											
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
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	Beryllium	ug/L	Tier 1																																
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	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Boron	ug/L	Tier 1			14.7		28.4		18.8			10.7		13.2					14.7		15			13.5		5.2 J		5.8 J	5.5 J	6.5 J	8.4 J		14.4	
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																									<0.098 U							
	Cadmium	ug/L	Tier 1																												0.1 J				
	Cadmium	ug/L	Tier 1																							<0.098 U									
	Cadmium	ug/L	Tier 1																											<0.098 U					
	Cadmium	ug/L	Tier 1																												0.1 J				
	Cadmium	ug/L	Tier 1																							<0.098 U									
	Cadmium	ug/L	Tier 1																						<0.098 U										
	Cadmium	ug/L	Tier 1																			0.1 J										<0.098 U			
	Cadmium	ug/L	Tier 1																															0.14 J	
	Cadmium	ug/L	Tier 1												<0.098 U																				
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1										<0.098 U																						
	Cadmium	ug/L	Tier 1																	<0.098 U															
	Cadmium	ug/L	Tier 1							<0.098 U																									
	Cadmium	ug/L	Tier 1			<0.098 U																													
	Cadmium	ug/L	Tier 1					0.18 J																											
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
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	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Calcium	ug/L	Tier 1			8180		10100		9650			7770		7380					7780		5900			5850		4280		3790	4270	3820	5750		6330	
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																									0.63 J							
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																												0.44 J				
	Chromium	ug/L	Tier 1																							<0.43 U									
	Chromium	ug/L	Tier 1																											0.62 J					
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																						0.51 J										
	Chromium	ug/L	Tier 1																			3.2										<0.43 U			
	Chromium	ug/L	Tier 1																															0.57 J	
	Chromium	ug/L	Tier 1												0.88 J																				
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1										<0.43 U																						
	Chromium	ug/L	Tier 1																	<0.43 U															
	Chromium	ug/L	Tier 1							0.68 J																									
	Chromium	ug/L	Tier 1			0.93 J																													
	Chromium	ug/L	Tier 1					0.59 J																											
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
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	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Cobalt	ug/L	Tier 1			<0.059 U		0.16 J		0.06 J			0.25 J		0.21 J					0.18 J		0.25 J			0.17 J		0.12 J		0.09 J	0.1 J	0.2 J	0.17 J		0.16 J	
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																										0.38 J						
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																												0.37 J				
	Copper	ug/L	Tier 1																								0.3 J								
	Copper	ug/L	Tier 1																											0.39 J					
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																						0.26 J										
	Copper	ug/L	Tier 1																			0.33 J										0.47 J			
	Copper	ug/L	Tier 1																															0.55 J	
	Copper	ug/L	Tier 1												0.36 J																				
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1										0.39 J																						
	Copper	ug/L	Tier 1																	0.47 J															
	Copper	ug/L	Tier 1							0.24 J																									
	Copper	ug/L	Tier 1			1.7																													
	Copper	ug/L	Tier 1					<0.12 U																											
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
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	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Iron	ug/L	Tier 1			171		2020		1930			826		796					844		889			874		380		337	349	711	2570		1830	
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																										0.12 J						
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																												0.51 J				
	Lead	ug/L	Tier 1																								0.14 J								
	Lead	ug/L	Tier 1																											0.11 J					
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																						0.27 J										
	Lead	ug/L	Tier 1																			0.29 J										0.15 J			
	Lead	ug/L	Tier 1																															0.2 J	
	Lead	ug/L	Tier 1												0.27 J																				
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1										0.1 J																						
	Lead	ug/L	Tier 1																	0.23 J															
	Lead	ug/L	Tier 1							0.06 J																									
	Lead	ug/L	Tier 1			0.1 J																													
	Lead	ug/L	Tier 1					0.15 J																											
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
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	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lithium	ug/L	Tier 1			2.8		2.1		2.0			1.3		0.96 J					1.2		0.47 J			0.7 J		0.31 J		0.23 J	0.24 J	0.54 J	0.48 J		0.53 J	
	Magnesium	ug/L	Tier 1			5200		4090		4070			3110		2950					3120		2320			2300		1200		1090	1250	1410	2410		2830	
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																										10.9						
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																												52.4				
	Manganese	ug/L	Tier 1																								12.5								
	Manganese	ug/L	Tier 1																											12					
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																						28.1										
	Manganese	ug/L	Tier 1																			27.9										56			
	Manganese	ug/L	Tier 1																															22.4	
	Manganese	ug/L	Tier 1												278																				
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1										285																						
	Manganese	ug/L	Tier 1																	290															
	Manganese	ug/L	Tier 1							94.4																									
	Manganese	ug/L	Tier 1			5.5																													
	Manganese	ug/L	Tier 1					101																											
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
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	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Mercury - low level	ng/L	Tier 1			**2.01**		**1.32**		1.28			1.11		1.09					1.18		**2.92**			**3.21**		**5.46**		**5.8**	**5.62**	**7.53**	**3.07**		**2.92**	
	Molybdenum	ug/L	Tier 1			0.34 J		1.1 J		0.11 J			0.38 J		0.78 J					0.86 J		0.81 J			0.66 J		0.33 J		0.15 J	0.14 J	0.13 J	0.24 J		0.67 J	
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																										0.69 J						
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																												0.52 J				

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	ug/L	Tier 1																								0.49 J								
	Nickel	ug/L	Tier 1																											0.85 J					
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																						1.0										
	Nickel	ug/L	Tier 1																			1.7										1.2			
	Nickel	ug/L	Tier 1																															1.6	
	Nickel	ug/L	Tier 1												0.82 J																				
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1										1.9																						
	Nickel	ug/L	Tier 1																	1.8															
	Nickel	ug/L	Tier 1							2.1																									
	Nickel	ug/L	Tier 1			0.61 J																													
	Nickel	ug/L	Tier 1					1.3																											
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
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	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Potassium	ug/L	Tier 1			1520		2280		2030			1040		988					1100		1010			991		402 J		436 J	469 J	532	1120		1190	
	Selenium	ug/L	Tier 1			0.5 J		0.25 J		<0.15 U			0.31 J		0.62 J					0.32 J		<0.15 U			0.81 J		<0.15 U		0.62 J	0.17 J	<0.15 U	<0.15 U		<0.15 U	
	Silver	ug/L	Tier 1			<0.11 P,U		<0.11 P,U		<0.11 P,U			<0.11 P,U		**0.15 J**					**0.18 J**		<0.11 P,U			<0.11 P,U		<0.11 P,U		<0.11 P,U	<0.11 P,U	<0.11 P,U	<0.11 P,U		<0.11 P,U	
	Sodium	ug/L	Tier 1			456 J		1200		1130			854		915					811		6300			6260		1160		1740	1920	6560	12600		11700	
	Thallium	ug/L	Tier 1			<0.030 U		0.08 J		<0.030 U			0.04 J		0.09 J					0.15 J		0.08 J			0.05 J		<0.030 U		<0.030 U	<0.030 U	<0.030 U	<0.030 U		0.03 J	
	Total Hardness	ug/L	Tier 1			41800		42100		40800			32200		30600					32300		24300			24100		15600		13900	15800	15400	24300		27500	
	Vanadium	ug/L	Tier 1			<0.41 U		<0.41 U		<0.41 U			<0.41 U		<0.41 U					0.42 J		0.41 J			<0.41 U		0.6 J		0.55 J	0.51 J	0.82 J	<0.41 U		<0.41 U	
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																										6.3 J						
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																												9.5 J				
	Zinc	ug/L	Tier 1																								6.9 J								
	Zinc	ug/L	Tier 1																											6.4 J					
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																						5.6 J										
	Zinc	ug/L	Tier 1																			6.4 J										6.3 J			
	Zinc	ug/L	Tier 1																															7.8 J	
	Zinc	ug/L	Tier 1												5.0 J																				
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1										4.2 J																						
	Zinc	ug/L	Tier 1																	4.5 J															
	Zinc	ug/L	Tier 1							5.5 J																									
	Zinc	ug/L	Tier 1			**82.2**																													
	Zinc	ug/L	Tier 1					6.0 J																											
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
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	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Inorganics																																		
	Bicarbonate Alkalinity	mg/L	Tier 1			33.3		42.2		44.4			31.1		33.3					31.1		15.5			15.5		6.7 J		8.9 J	6.7 J	<3.2 U	11.1		11.1	
	Carbonate Alkalinity	mg/L	Tier 1			<3.2 U		<3.2 U		<3.2 U			<3.2 U		<3.2 U					<3.2 U		<3.2 U			<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U	
	Chloride	mg/L	Tier 1			2.1 J		2.5 J		2.5 J			2.4 J		2.4 J					2.4 J		12.9			13		3.3 J		4.0 J	4.5 J	15.5	28.9		23.8	
	COD	mg/L	Tier 1			19.6 J		24.1 J		20.7 J			26.4 J		30.8 J					28.6 J		57.6			46.4 J		44.2 J		41.8 J	44.2 J	68.8	50.9		37.5 J	
	Cyanide	mg/L	Tier 1			<0.0060 P,U		<0.0060 P,U		<0.0060 P,U			<0.0060 P,U		<0.0060 P,U					<0.0060 P,U		<0.0060 P,U			<0.0060 P,U		<0.0060 P,U		<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U		<0.0060 P,U	
	Fluoride	mg/L	Tier 1			0.25 J		0.29 J		0.29 J			0.25 J		0.25 J					0.25 J		0.24 J			0.24 J		<0.059 U		<0.059 U	0.23 J	0.22 J	0.21 J		0.23 J	
	Gross Alpha	pCi/L	Tier 1			0.040 +/- 0.573		0.347 +/- 0.693		-0.759 +/- 0.567			0.435 +/- 0.906		-0.064 +/- 0.450					0.322 +/- 0.639		0.129 +/- 0.867			0.171 +/- 0.645		0.569 +/- 0.962		-0.596 +/- 0.818	0.016 +/- 0.511	-0.205 +/- 0.445	0.461 +/- 0.706		0.153 +/- 0.614	
	Gross Beta	pCi/L	Tier 1			0.538 +/- 0.769		2.04 +/- 1.09		1.83 +/- 1.06			1.46 +/- 0.969		2.23 +/- 1.08					1.14 +/- 0.881		1.69 +/- 1.05			1.00 +/- 0.855		2.31 +/- 1.12		0.325 +/- 0.784	0.533 +/- 0.840	-0.325 +/- 0.880	1.37 +/- 0.924		1.63 +/- 1.07	
	Nitrogen, Ammonia	mg/L	Tier 1			<0.50 U		<0.50 U		<0.50 U			<0.50 U		<0.50 U					<0.50 U		<0.50 U			<0.50 U		<0.50 U		<0.50 U	<0.50 U	<0.50 U	<0.50 U		<0.50 U	
	Nitrogen, Nitrate	mg/L	Tier 1			<0.085 U		<0.085 U		<0.085 U			0.2 J		0.2 J					0.19 J		0.15 J			0.16 J		0.21 J		0.21 J	0.21 J	0.16 J	<0.085 U		0.14 J	
	Nitrogen, Nitrite	mg/L	Tier 1			<0.036 U		<0.036 U		<0.036 U			<0.036 U		<0.036 U					<0.036 U		<0.036 U			<0.036 U		<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U		<0.036 U	
	Sulfate	mg/L	Tier 1			12.4		4.8		4.7			3.8 J		3.8 J					4.5		6.3			6.3		5.7		6	6.9	5.8	7.0		8.0	
	Sulfide	mg/L	Tier 1			<2.3 U		<2.3 U		<2.3 U			<2.3 U		<2.3 U					<2.3 U		<2.3 U			<2.3 U		<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U		<2.3 U	
	TOC as NPOC	mg/L	Tier 1			2.9		5.3		5.7			6.9		7.4					7.4		14.5			15.2		15.1		14.8	15.2	25.8	16.8		16.1	
	TOC as NPOC - Dissolved	mg/L	Tier 1			3.2		5.8		5.0			7.3		7.3					7.5		15.9			15.5		19.6		15.1	15	26.6	17.2		14.3	
	Total Alkalinity	mg/L	Tier 1			33.3		42.2		44.4			31.1		33.3					31.1		15.5			15.5		6.7 J		8.9 J	6.7 J	<3.2 U	11.1		11.1	
	Total Dissolved Solids	mg/L	Tier 1			56		60		52			36		54					42		80			86		56		50	54	88	110		86	
	Total Suspended Solids	mg/L	Tier 1			1.4		3.8		4.0			0.82 J		0.84 J					0.78 J		0.9 J			1.0		0.72 J		0.5 J	0.6 J	0.4 J	1.6 J		1.5	
7/1/2008	**Field Measurement**																																		
	Conductivity	mmhos	Tier 1				98				88					56			56						106		69		80	94	77	138		137	
	Conductivity	mmhos	Tier 1				98				88					56			56						106		69		80	94	77	138		137	
	Dissolved Oxygen	mg/L	Tier 1				9.53				7.48					8.66			8.68						7.06		8.29		8.29	8.36	2.94	6.75		2.64	
	Flow	cfs	Tier 1																						4.8221		48.99825		50.454	49.5285	1.1186	1.232		1.30615	
	ORP	mV	Tier 1				100.2				151.5					91.9			101.8						94.1		74.4		53.6	43.4	150.1	25.6		13.9	
	pH	S.U.	Tier 1				8.51				7.53					7.88			7.9						6.0		7.12		7.09	7.02	5.11	6.84		6.39	
	Specific Conductance	umhos/cm @25 degrees C	Tier 1				104				92					59			59						119		74		86	100	87	144		154	
	Temperature	Celcius	Tier 1				22.04				22.63					22.01			22.09						19.23		21.4		21.43	21.67	18.87	22.95		18.94	
	Turbidity	NTU	Tier 1	3.9			4.1				3.8			1.2		1.3			1.5				6.8		7.2		4.5		5.7	5.6	2.2	4.1		19.7	
	Velocity	ft/s	Tier 1																																
	Water Depth	ft	Tier 1																																
	Metals																																		
	Aluminum	ug/L	Tier 1	6.1			6.9				3.7 J			7.2		7.9			8.2				120		131		90.6		92.3	90.5	350	40.7		105	
	Antimony	ug/L	Tier 1	0.082 J			0.079 J				<0.050 U			<0.050 U		<0.050 U			<0.050 U				0.079 J		0.084 J		<0.050 U		<0.050 U	0.07 J	0.084 J	0.051 J		0.081 J	
	Arsenic	ug/L	Tier 1	0.69			0.71				1.3			0.56		0.47			0.54				2.8		2.9		1.8		2.2	2.1	3.8	2.1		3.6	
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																												16.2				
	Barium	ug/L	Tier 1													2.2																			
	Barium	ug/L	Tier 1											2.2																					
	Barium	ug/L	Tier 1																2.3																
	Barium	ug/L	Tier 1																								10.2								
	Barium	ug/L	Tier 1																													9.2			
	Barium	ug/L	Tier 1																										11.4						
	Barium	ug/L	Tier 1																											12.2					
	Barium	ug/L	Tier 1																				13.6												

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	ug/L	Tier 1								7.2																								
	Barium	ug/L	Tier 1																						14.6										
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																															18.2	
	Barium	ug/L	Tier 1	2.5																															
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1				2.7																												
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
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	Barium	ug/L	Tier 1																																
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	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																												<0.10 P,U				
	Beryllium	ug/L	Tier 1													<0.10 U																			
	Beryllium	ug/L	Tier 1											<0.10 U																					
	Beryllium	ug/L	Tier 1																<0.10 U																
	Beryllium	ug/L	Tier 1																								<0.10 U								
	Beryllium	ug/L	Tier 1																										<0.10 U			<0.10 U			
	Beryllium	ug/L	Tier 1																											<0.10 U					
	Beryllium	ug/L	Tier 1																				<0.10 U												
	Beryllium	ug/L	Tier 1								<0.10 U																								
	Beryllium	ug/L	Tier 1																						<0.10 U										
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																															<0.10 U	
	Beryllium	ug/L	Tier 1	<0.10 U																															
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1				<0.10 U																												
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Boron	ug/L	Tier 1	22.5			22				27.2			11.2		11.2			11.5				10.2		11.7		7.3		8.9	9.8	8.3	12.2		12.7	
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																												0.053 J				
	Cadmium	ug/L	Tier 1													<0.050 U																			
	Cadmium	ug/L	Tier 1											<0.050 U																					
	Cadmium	ug/L	Tier 1																<0.050 U																
	Cadmium	ug/L	Tier 1																								<0.050 U								
	Cadmium	ug/L	Tier 1																													<0.050 U			
	Cadmium	ug/L	Tier 1																										<0.050 U						
	Cadmium	ug/L	Tier 1																											<0.050 U					
	Cadmium	ug/L	Tier 1																				<0.050 U												
	Cadmium	ug/L	Tier 1								<0.050 U																								
	Cadmium	ug/L	Tier 1																						**21.4**										
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																															<0.050 U	
	Cadmium	ug/L	Tier 1	<0.050 U																															
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1				<0.050 U																												
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Calcium	ug/L	Tier 1	11200			11500				11500			7460		7260			7380				11900		12200		9200		10000	11100	5550	7910		14000	
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																												1.4				
	Chromium	ug/L	Tier 1													0.51																			
	Chromium	ug/L	Tier 1											0.34 J																					
	Chromium	ug/L	Tier 1																0.32 J																
	Chromium	ug/L	Tier 1																								0.59								
	Chromium	ug/L	Tier 1																													0.95			
	Chromium	ug/L	Tier 1																										0.7						
	Chromium	ug/L	Tier 1																											0.77					
	Chromium	ug/L	Tier 1																				1.2												
	Chromium	ug/L	Tier 1								0.36 J																								
	Chromium	ug/L	Tier 1																						0.79										
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																															0.73	
	Chromium	ug/L	Tier 1	0.35 J																															
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1				0.43 J																												
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Cobalt	ug/L	Tier 1	0.1			0.1				0.086 J			<0.050 U		<0.050 U			<0.050 U				0.54		0.58		0.25		0.39	0.43	0.82	0.21		2.2	
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																												0.91				
	Copper	ug/L	Tier 1													0.14 J																			
	Copper	ug/L	Tier 1											0.13 J																					
	Copper	ug/L	Tier 1																0.14 J																
	Copper	ug/L	Tier 1																								0.47								
	Copper	ug/L	Tier 1																													0.58			
	Copper	ug/L	Tier 1																										0.48						
	Copper	ug/L	Tier 1																											0.49					
	Copper	ug/L	Tier 1																				0.63												
	Copper	ug/L	Tier 1								<0.10 U																								
	Copper	ug/L	Tier 1																						0.68										
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																															0.49	
	Copper	ug/L	Tier 1	1.5																															
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1				1.5																												
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
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	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Iron	ug/L	Tier 1	446			463				1150			383		373			401				5000		5240		2290		2550	2730	4220	5020		10400	
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																												1.2				
	Lead	ug/L	Tier 1													<0.050 U																			
	Lead	ug/L	Tier 1											<0.050 U																					
	Lead	ug/L	Tier 1																<0.050 U																
	Lead	ug/L	Tier 1																								0.18								
	Lead	ug/L	Tier 1																													0.092 J			
	Lead	ug/L	Tier 1																										0.2						
	Lead	ug/L	Tier 1																											0.18					
	Lead	ug/L	Tier 1																				0.56												
	Lead	ug/L	Tier 1								<0.050 U																								
	Lead	ug/L	Tier 1																						0.66										
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																															0.22	
	Lead	ug/L	Tier 1	<0.050 U																															
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1				<0.050 U																												
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lithium	ug/L	Tier 1	4.2			4.3				2.3			1.0		1.0			1.1				1.0		1.1		0.67		0.71	0.74	0.51	0.87		1.1	
	Magnesium	ug/L	Tier 1	7270			7610				5120			3040		3070			3110				4840		5140		2560		2760	3310	2100	3770		5480	
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																												225				
	Manganese	ug/L	Tier 1													22.3																			
	Manganese	ug/L	Tier 1											23.3																					
	Manganese	ug/L	Tier 1																23.8																
	Manganese	ug/L	Tier 1																								125								
	Manganese	ug/L	Tier 1																													137			
	Manganese	ug/L	Tier 1																										145						
	Manganese	ug/L	Tier 1																											151					
	Manganese	ug/L	Tier 1																				311												
	Manganese	ug/L	Tier 1								68																								
	Manganese	ug/L	Tier 1																						339										
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																															**1940**	
	Manganese	ug/L	Tier 1	11.9																															
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1				10.6																												
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Mercury - low level	ng/L	Tier 1	**1.32**			**1.73**				**1.31**			1.05		**1.64**			1.02				**5.73**		**9.04**		**4.8**		**4.58**	**4.53**	**13.8**	**3.26**		**5.72**	
	Molybdenum	ug/L	Tier 1	1.1			1.1				0.66			0.53		0.53			0.54				1.5		1.5		0.26		0.3	0.43	0.17	0.27		0.99	
	Nickel	ug/L	Tier 1																												1.4				
	Nickel	ug/L	Tier 1													1.1																			
	Nickel	ug/L	Tier 1											1.0																					
	Nickel	ug/L	Tier 1																0.96																
	Nickel	ug/L	Tier 1																								0.97								
	Nickel	ug/L	Tier 1																													1.9			
	Nickel	ug/L	Tier 1																										1.0						

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	ug/L	Tier 1																											1.4					
	Nickel	ug/L	Tier 1																				2.6												
	Nickel	ug/L	Tier 1								1.4																								
	Nickel	ug/L	Tier 1																						2.6										
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																															2.6	
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
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	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Potassium	ug/L	Tier 1	1450			1470				2190			1060		1020			1090				825		834		464		554	681	601	1720		834	
	Selenium	ug/L	Tier 1	0.53			0.59				<0.25 U			<0.25 U		<0.25 U			<0.25 U				0.33 J		0.34 J		0.26 J		0.3 J	<0.25 U	0.33 J	<0.25 U		0.38 J	
	Silver	ug/L	Tier 1	<0.10 P,U			<0.10 P,U				<0.10 P,U			<0.10 P,U		<0.10 P,U			<0.10 P,U				<0.10 P,U		<0.10 P,U		<0.10 P,U		<0.10 P,U	<0.10 P,U	<0.10 P,U	<0.10 P,U		<0.10 P,U	
	Sodium	ug/L	Tier 1	241			195				1360			948		930			1030				8180		8430		3950		4850	6270	8560	16400		11600	
	Thallium	ug/L	Tier 1	<0.050 U			<0.050 U				<0.050 U			<0.050 U		<0.050 U			<0.050 U				<0.050 U		<0.050 U		<0.050 U		<0.050 U	<0.050 U	<0.050 U	<0.050 U		<0.050 U	
	Total Hardness	ug/L	Tier 1	57900			60200				49800			31100		30800			31200				49600		51600		33500		36500	41300	22500	35300		57400	
	Vanadium	ug/L	Tier 1	0.14			0.13				0.084 J			0.091 J		0.08 J			0.1				0.86		0.92		0.97		1.0	1.1	1.3	0.32		0.74	
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																												8.6				
	Zinc	ug/L	Tier 1													<2.5 U																			
	Zinc	ug/L	Tier 1											<2.5 U																					
	Zinc	ug/L	Tier 1																<2.5 U																
	Zinc	ug/L	Tier 1																								<2.5 U								
	Zinc	ug/L	Tier 1																													<2.5 U			
	Zinc	ug/L	Tier 1																										<2.5 U						
	Zinc	ug/L	Tier 1																											<2.5 U					
	Zinc	ug/L	Tier 1																				3.4 J												
	Zinc	ug/L	Tier 1								<2.5 U																								
	Zinc	ug/L	Tier 1																						4.9 J										
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																															2.8 J	
	Zinc	ug/L	Tier 1	<2.5 U																															
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1				<2.5 U																												
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
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	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Inorganics																																		
	Bicarbonate Alkalinity	mg/L	Tier 1	48.4			48.4				52.8			33		30.8			30.8				37.4		37.4		24.2		28.6	28.6	4.4 J	19.8		46.2	
	Carbonate Alkalinity	mg/L	Tier 1	<3.2 U			<3.2 U				<3.2 U			<3.2 U		<3.2 U			<3.2 U				<3.2 U		<3.2 U		<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U		<3.2 U	
	Chloride	mg/L	Tier 1	2.3 J			2.2 J				2.5 J			2.6 J		2.5 J			2.6 J				16.6		16.6		6.8		8.2	10.4	19.8	32.2		23.9	
	COD	mg/L	Tier 1	35.3 J			30.8 J				26.4 J			24.1 J		28.6 J			28.6 J				102		100		46.4 J		77.7	48.7 J	138	68.8		111	
	Cyanide	mg/L	Tier 1	<0.0060 P,U			<0.0060 P,U				<0.0060 P,U			<0.0060 P,U		<0.0060 P,U			<0.0060 P,U				<0.0060 P,U		<0.0060 P,U		<0.0060 P,U		<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U		<0.0060 P,U	
	Fluoride	mg/L	Tier 1	0.26 J			0.25 J				0.26 J			0.22 J		0.23 J			0.23 J				0.24 J		0.24 J		<0.059 U		<0.059 U	0.2 J	0.2 J	0.21 J		0.24 J	
	Gross Alpha	pCi/L	Tier 1	1.03 +/- 1.08			1.05 +/- 0.975				-0.019 +/- 0.361			0.114 +/- 0.473		-1.36 +/- 0.530			0.148 +/- 0.472				1.20 +/- 1.04		1.07 +/- 1.07		0.619 +/- 0.560		0.581 +/- 0.694	0.599 +/- 0.597	0.112 +/- 0.592	0.123 +/- 0.745		0.764 +/- 1.06	
	Gross Beta	pCi/L	Tier 1	1.45 +/- 0.990			2.13 +/- 1.11				1.64 +/- 0.781			0.395 +/- 0.621		1.70 +/- 0.775			0.672 +/- 0.632				1.91 +/- 1.07		1.10 +/- 0.903		0.928 +/- 0.716		1.36 +/- 0.779	-0.204 +/- 0.620	1.45 +/- 0.945	1.99 +/- 1.39		1.68 +/- 1.21	
	Nitrogen, Ammonia	mg/L	Tier 1	<0.50 U			<0.50 U				<0.50 U			<0.50 U		<0.50 U			<0.50 U				<0.50 U		<0.50 U		<0.50 U		<0.50 U	<0.50 U	<0.50 U	<0.50 U		<0.50 U	
	Nitrogen, Nitrate	mg/L	Tier 1	<0.085 U			<0.085 U				<0.085 U			<0.085 U		<0.085 U			<0.085 U				0.2 J		0.2 J		0.17 J		0.18 J	0.18 J	0.21 J	0.18 J		0.22 J	
	Nitrogen, Nitrite	mg/L	Tier 1	<0.036 U			<0.036 U				<0.036 U			<0.036 U		<0.036 U			<0.036 U				<0.036 U		<0.036 U		<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U		<0.036 U	
	Sulfate	mg/L	Tier 1	12.7			12.7				3.4 J			3.7 J		3.7 J			3.8 J				3.3 J		3.6 J		5.2		7.0	8.5	4.4	5.1		3.6 J	
	Sulfide	mg/L	Tier 1	<2.3 U			<2.3 U				<2.3 U			<2.3 U		<2.3 U			<2.3 U				<2.3 U		<2.3 U		<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U		<2.3 U	
	TOC as NPOC	mg/L	Tier 1	6.9			6.5				8.6			8.8		8.2			20.6				35.4		35.4		16.5		21.5	15	49.8	22.6		36.1	
	TOC as NPOC - Dissolved	mg/L	Tier 1	6.0			7.0				9.7			8.2		8.6			8.3				30		30		18.5		15.3	14.7	46.6	20.3		36.6	
	Total Alkalinity	mg/L	Tier 1	48.4			48.4				52.8			33		30.8			30.8				37.4		37.4		24.2		28.6	28.6	4.4 J	19.8		46.2	
	Total Dissolved Solids	mg/L	Tier 1	76			68				80			52		56			56				148		146		88		96	104	150	122		150	
	Total Suspended Solids	mg/L	Tier 1	1.5			2.0				2.3			3.0		1.0			1.3				5.2		4.2		2.6		2.7	3.0	4.0	3.7		16	
10/3/2008	**Field Measurement**																																		
	Conductivity	mmhos	Tier 1								108					46		NM							78		72		100	104	59	142		97	
	Conductivity	mmhos	Tier 1								108					46		NM							78		72		100	104	59	142		97	
	Depth to Water	ft	Tier 1																																
	Dissolved Oxygen	mg/L	Tier 1								10.8					8.56		NM							8.91		9.62		8.4	8.99	1.84	3.11		4.74	
	Flow	cfs	Tier 1																						0.3656		7.619		9.962	9.7275	0.1434	<0.1		0.2136	
	GW Elevation	ft msl	Tier 1																																
	ORP	mV	Tier 1								151					116.9		NM							175.7		308.3		125.5	150.8	245.1	96		112.7	
	pH	S.U.	Tier 1								7.86					7.55		NM							7.15		NM		7.2	7.28	5.57	6.88		6.71	
	Specific Conductance	degrees C	Tier 1								146					61		NM							111		104		142	149	83	190		137	
	Temperature	Celcius	Tier 1								11.1					12.49		NM							9.44		9		9.48	9.25	9.85	11.7		9.57	11
	Turbidity	NTU	Tier 1								3.1					4.2		4							7.3		4.8	5.8	6.4	5.4	37.2	27.8	19.7	20	
	Velocity	ft/s	Tier 1																																0.27
	Water Depth	ft	Tier 1								6					26		24							4.25		5.19		1.72	3.83	1.41	3.05		1.91	1.08
	Metals																																		
	Aluminum	ug/L	Tier 1								20.6 J					16.5 J		18.2 J							198 J		92.1 J	25.3 J	24.3 J	22.8 J	**1190**	95.5 J	25.0 J	31.6 J	
	Antimony	ug/L	Tier 1								<0.071 U					<0.071 U		<0.071 U							0.12 J		0.32 J	0.19 J	0.082 J	0.19 J	0.22 J	0.14 J	0.13 J	0.14 J	
	Arsenic	ug/L	Tier 1								0.94 J					0.81 J		0.80 J							2.2		2.6	2.5	2.5	2.1	8.9	10.4	1.7	1.8	
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																												25.3				
	Barium	ug/L	Tier 1															4.3																	
	Barium	ug/L	Tier 1													3.6																			
	Barium	ug/L	Tier 1																															9.4	
	Barium	ug/L	Tier 1																														10		
	Barium	ug/L	Tier 1																													17			
	Barium	ug/L	Tier 1																						40										
	Barium	ug/L	Tier 1																								10								
	Barium	ug/L	Tier 1								2.6																								
	Barium	ug/L	Tier 1																										11.7	12					
	Barium	ug/L	Tier 1																									12							
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Barium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																												<0.41 P,U				
	Beryllium	ug/L	Tier 1															<0.41 P,U																	
	Beryllium	ug/L	Tier 1													<0.41 P,U																			
	Beryllium	ug/L	Tier 1																															<0.41 P,U	
	Beryllium	ug/L	Tier 1																														<0.41 P,U		
	Beryllium	ug/L	Tier 1																						<0.41 U										
	Beryllium	ug/L	Tier 1																								<0.41 U								
	Beryllium	ug/L	Tier 1								<0.41 U																								
	Beryllium	ug/L	Tier 1																										<0.41 U	<0.41 U					
	Beryllium	ug/L	Tier 1																									<0.41 U							
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
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	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Beryllium	ug/L	Tier 1																																
	Boron	ug/L	Tier 1								29.3					12.3		11							9.7		15.5	16.4	13.5	12.7	12.6	15.7	13.1	13.5	
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																												**0.14 J**				
	Cadmium	ug/L	Tier 1															<0.087 U																	
	Cadmium	ug/L	Tier 1													<0.087 U																			
	Cadmium	ug/L	Tier 1																															<0.087 U	
	Cadmium	ug/L	Tier 1																														<0.087 U		
	Cadmium	ug/L	Tier 1																													<0.087 U			
	Cadmium	ug/L	Tier 1																						<0.087 U										
	Cadmium	ug/L	Tier 1																								**0.20 J**								
	Cadmium	ug/L	Tier 1								<0.087 U																								
	Cadmium	ug/L	Tier 1																										<0.087 U	<0.087 U					
	Cadmium	ug/L	Tier 1																									0.088 J							
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Cadmium	ug/L	Tier 1																																
	Calcium	ug/L	Tier 1								11800					8170		7980							11800		14200	16900	16800	16700	6700	11200	11000	10800	
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																												2.6				
	Chromium	ug/L	Tier 1															0.40 J																	
	Chromium	ug/L	Tier 1													<0.30 U																			
	Chromium	ug/L	Tier 1																															0.38 J	
	Chromium	ug/L	Tier 1																														1.8		
	Chromium	ug/L	Tier 1																													11.4			
	Chromium	ug/L	Tier 1																						0.68 J										
	Chromium	ug/L	Tier 1																								0.78 J								
	Chromium	ug/L	Tier 1								0.39 J																								
	Chromium	ug/L	Tier 1																										0.42 J	0.36 J					
	Chromium	ug/L	Tier 1																									0.49 J							
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
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	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Chromium	ug/L	Tier 1																																
	Cobalt	ug/L	Tier 1								<0.077 U					<0.077 U		<0.077 U							1.4		0.32 J	0.44 J	0.38 J	0.33 J	1.5	0.41 J	0.24 J	0.24 J	
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																												**3.3**				
	Copper	ug/L	Tier 1															<0.50 U																	
	Copper	ug/L	Tier 1													1.1																			
	Copper	ug/L	Tier 1																															<0.50 U	
	Copper	ug/L	Tier 1																														<0.50 U		
	Copper	ug/L	Tier 1																													0.74 J			

Table H-1
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EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Copper	ug/L	Tier 1																						0.93 J										
	Copper	ug/L	Tier 1																								<0.50 U								
	Copper	ug/L	Tier 1								<0.50 U																								
	Copper	ug/L	Tier 1																										0.53 J	<0.50 U					
	Copper	ug/L	Tier 1																									<0.50 U							
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
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	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Copper	ug/L	Tier 1																																
	Iron	ug/L	Tier 1								343					373		394							7230		1700	2060	2080	1920	11400	14800	3520	3520	
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																												4.3				
	Lead	ug/L	Tier 1															<0.50 U																	
	Lead	ug/L	Tier 1													<0.50 U																			
	Lead	ug/L	Tier 1																															<0.50 U	
	Lead	ug/L	Tier 1																														<0.50 U		
	Lead	ug/L	Tier 1																													<0.50 U			
	Lead	ug/L	Tier 1																						0.90 J										
	Lead	ug/L	Tier 1																								<0.50 U								
	Lead	ug/L	Tier 1								1.1																								
	Lead	ug/L	Tier 1																										<0.50 U	<0.50 U					
	Lead	ug/L	Tier 1																									<0.50 U							
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
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	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lead	ug/L	Tier 1																																
	Lithium	ug/L	Tier 1								2.5					1		1							1.2		1.1	1.1	1.1	1	1.1	0.77 J	1.3	1.4	
	Magnesium	ug/L	Tier 1								5540					3370		3330							5040		3780	4510	4480	4540	2680	5100	4740	4740	
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																												343				
	Manganese	ug/L	Tier 1															156																	
	Manganese	ug/L	Tier 1													156																			
	Manganese	ug/L	Tier 1																															264	
	Manganese	ug/L	Tier 1																														269		
	Manganese	ug/L	Tier 1																													872			
	Manganese	ug/L	Tier 1																						1980										
	Manganese	ug/L	Tier 1																								71.9								
	Manganese	ug/L	Tier 1								17.2																								
	Manganese	ug/L	Tier 1																										181	158					
	Manganese	ug/L	Tier 1																									182							
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
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	Manganese	ug/L	Tier 1																																
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	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Manganese	ug/L	Tier 1																																
	Mercury - low level	ng/L	Tier 1								0.629					0.89		1.03							1.48		1.14	1.33	1.79	1.34	12.2	0.842	1.29	1.27	
	Molybdenum	ug/L	Tier 1								0.78 J					0.76 J		0.77 J							0.78 J		1	0.80 J	0.58 J	0.64 J	0.31 J	0.58 J	0.19 J	0.22 J	
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																												2.8				
	Nickel	ug/L	Tier 1															1.1																	
	Nickel	ug/L	Tier 1													0.86 J																			
	Nickel	ug/L	Tier 1																															0.71 J	
	Nickel	ug/L	Tier 1																														0.77 J		
	Nickel	ug/L	Tier 1																													3			
	Nickel	ug/L	Tier 1																						2.1										
	Nickel	ug/L	Tier 1																								0.88 J								
	Nickel	ug/L	Tier 1								1.3																								
	Nickel	ug/L	Tier 1																										0.67 J	0.92 J					
	Nickel	ug/L	Tier 1																									0.82 J							
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
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	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	HTP-001	HTP-001	HTP-001	HTP-001	HTP-002	HTP-002	HTP-002	HTP-002	HTP-002	LKL-001	LKL-001	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	MBR-001	MBR-001	MBR-001	MBR-001	MER-001	MER-001	MER-002	MER-002	MER-003	WBR-001	WBR-002	WBR-003	WBR-003	Weir #1
			Field ID	HTP-001	HTP-001	HTP-001	HTP-001	Dup-002	Dup-005	HTP-002	HTP-002	HTP-002	Dup-003	Dup-003	LKL-001	LKL-001	LKL-001	LKL-002	LKL-002	LKL-002	LKL-002	Dup-001	Dup-002	Dup-006	MBR-001	Dup-001	MER-001	Dup-001	MER-002	MER-003	WBR-001	WBR-002	Dup-002	WBR-003	Weir #1
			Sample Depth	0.76	NA	0.64	0.76	1.1	2.3	1.1	1.2	2.3	4.8	5.2	4.8	5.2	7.5	4.8	5.8	6	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Nickel	ug/L	Tier 1																																
	Potassium	ug/L	Tier 1								796					1140		1130							1150		906	1130	1120	1160	2660	2450	1430	1370	
	Selenium	ug/L	Tier 1								<0.25 U					<0.25 U		<0.25 U							<0.25 U		0.58 J	0.29 J	<0.25 U	0.32 J	0.49 J	<0.25 U	<0.25 U	<0.25 U	
	Silver	ug/L	Tier 1								<0.25 P,U					<0.25 P,U		<0.25 P,U							<0.25 P,U		<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U	<0.25 P,U	
	Sodium	ug/L	Tier 1								856					1090		1080							13500		6110	8440	8440	8550	9030	19500	11500	11600	
	Thallium	ug/L	Tier 1								0.052 J					0.15 J		0.14 J							0.086 J		0.31 J	0.39 J	0.20 J	0.16 J	0.10 J	0.099 J	0.071 J	0.12 J	
	Total Hardness	ug/L	Tier 1								52300					34300		33600							50300		51100	60900	60400	60400	27800	49100	46900	46400	
	Vanadium	ug/L	Tier 1								<0.45 U					<0.45 U		<0.45 U							0.71 J		1.5	1	0.92 J	1	4.4	0.77 J	<0.45 U	<0.45 U	
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																												15.4				
	Zinc	ug/L	Tier 1															5.1																	
	Zinc	ug/L	Tier 1													3.4 J																			
	Zinc	ug/L	Tier 1																															11	
	Zinc	ug/L	Tier 1																														10.3		
	Zinc	ug/L	Tier 1																													15.9			
	Zinc	ug/L	Tier 1																						10.4										
	Zinc	ug/L	Tier 1																								4.2 J								
	Zinc	ug/L	Tier 1								3.0 J																								
	Zinc	ug/L	Tier 1																										2.0 J	1.9 J					
	Zinc	ug/L	Tier 1																									2.7 J							
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
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	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Zinc	ug/L	Tier 1																																
	Inorganics																																		
	Bicarbonate Alkalinity	mg/L	Tier 1								49.9					34.6		32.4							32.6		36.9	45.6	45.6	47.7	8.7 J	30.4	30.4	32.6	
	Carbonate Alkalinity	mg/L	Tier 1								<3.2 U					<3.2 U		<3.2 U							<3.2 U		<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	<3.2 U	
	Chloride	mg/L	Tier 1								2.2 J					2.5 J		2.5 J							28		11.8	14.4	14.2	15.1	16.9	34.6	22.5	21.4	
	COD	mg/L	Tier 1								24.1 J					24.1 J		28.6 J							39.8 J		19.6 J	21.9 J	26.4 J	84.4	147	68.8	46.4 J	30.8 J	
	Cyanide	mg/L	Tier 1								<0.0060 P,U					<0.0060 P,U		<0.0060 P,U							<0.0060 P,U		<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	<0.0060 P,U	
	Fluoride	mg/L	Tier 1								0.30 J					0.22 J		0.22 J							0.27 J		0.20 J	0.20 J	0.20 J	0.20 J	<0.059 U	0.25 J	0.27 J	0.27 J	
	Gross Alpha	pCi/L	Tier 1								0.960 +/- 0.710					0.328+/-0.628		0.178+/-0.517							0.242 +/- 0.472		-0.038 +/- 0.795	1.08 +/- 1.06	0.189 +/- 0.713	1.31 +/- 1.16	0.306 +/- 0.795	0.717 +/- 0.698	-0.231 +/- 0.442	0.413 +/- 0.562	
	Gross Beta	pCi/L	Tier 1								1.86 +/- 0.755					1.26+/-0.942		0.730+/-0.798							2.08 +/- 0.756		1.31 +/- 0.919	1.48 +/- 0.975	0.801 +/- 0.881	1.12 +/- 0.915	3.46 +/- 1.18	1.94 +/- 0.727	1.24 +/- 0.832	1.40 +/- 0.618	
	Nitrogen, Ammonia	mg/L	Tier 1								<0.50 U					<0.50 U		<0.50 U							<0.50 U		<0.50 U	<0.50 U	<0.50 U	<0.50 U	0.84 J	0.65 J	0.68 J	0.50 J	
	Nitrogen, Nitrate	mg/L	Tier 1								<0.085 U					<0.085 U		<0.085 U							0.18 J		0.17 J	0.18 J	0.18 J	0.18 J	<0.085 U	<0.085 U	<0.085 U	0.18 J	
	Nitrogen, Nitrite	mg/L	Tier 1								<0.036 U					<0.036 U		<0.036 U							<0.036 U		<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	<0.036 U	
	Sulfate	mg/L	Tier 1								4					3.5 J		3.5 J							3.8 J		5.9	10.4	10.5	11.7	2.3 J	2.8 J	5	4.6	
	Sulfide	mg/L	Tier 1								<2.3 U					<2.3 U		<2.3 U							<2.3 U		<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	<2.3 U	
	TOC as NPOC	mg/L	Tier 1								7.4					7.3		7							14.7		7.1	6.5	6.9	8.5	42.8	16.3	10.1	10.2	
	Dissolved	mg/L	Tier 1								7.7					7.8		6.8							15.2		6.8	5.2	5.6	7	49.6	16.1	10.3	10	
	Total Alkalinity	mg/L	Tier 1								49.9					34.6		32.4							32.6		36.9	45.6	45.6	47.7	8.7 J	30.4	30.4	32.6	
	Total Dissolved Solids	mg/L	Tier 1								60					58		48							134		98	102	110	114	148	134	98	102	
	Total Suspended Solids	mg/L	Tier 1								1.6 J					2.1		1.4							1.8		1.0 J	1.4	1.6	0.80 J	38	6.8	4	4	

Notes
cfs = cubic fe
COD = Chem
d = dry
Dup = duplic
f = frozen
ft = feet
ft msl = feet
ft/s = feet pe
GW = Groun
i = insufficien
ID = Identific
mg/l = milligr
mmhos = mi
umhos/cm @
AMV - Aquat
B = inorganic
FAV - Final a
FCV - Final
HCV - Huma
HNV - Huma
J = Concent
P = Analyte
U = The ana
WV - Wildlife
< = All the a
Residential
Results wer

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
2/18/2008	**Field Measurement**																																	
	Dissolved Oxygen	mg/L	Tier 1												1	d		f				<1.0						<1.0						
	Flow	cfs	Tier 1													0		0																
	Iron, Ferrous	ug/L	Tier 1																															
	ORP	mV	Tier 1												-55	d		f				-106.8						-95						
	pH	S.U.	Tier 1												6.6	d		f				6.29						6.93						
	Specific Conductance	umhos/cm @25 degrees C	Tier 1												641	d		f				141						122						
	Temperature	Celcius	Tier 1		3.8	5.7	2.1	5.4		3.8	2.6	1.9	5.5		2.9	d		f				1.89						3.7						
	Turbidity	NTU	Tier 1												6.8							7.8						4.3						
	Velocity	ft/s	Tier 1		0.26	0.81	0.85	0.84		0.02	0.25	0.23	0.17																					
	Water Depth	ft	Tier 1		2	1.8	1.7	1.65		1.9	1.7	1.7	1.6																					
	Metals																																	
	Aluminum	ug/L	Tier 1												6.8 B							39 J						12.1 J						
	Antimony	ug/L	Tier 1												<0.10 U							<0.10 U						<0.10 U	1100	2300	240		130	
	Arsenic	ug/L	Tier 1												0.21 B							0.38 J						0.4 J	340	680	150		280	
	Barium	ug/L	Tier 1																										286	572	100		160000	
	Barium	ug/L	Tier 1																										397	794	139		160000	
	Barium	ug/L	Tier 1																										398	796	140		160000	
	Barium	ug/L	Tier 1																									32	406	811	142		160000	
	Barium	ug/L	Tier 1																										407	814	143		160000	
	Barium	ug/L	Tier 1																										409	819	143		160000	
	Barium	ug/L	Tier 1																			31							427	853	150		160000	
	Barium	ug/L	Tier 1																										497	994	174		160000	
	Barium	ug/L	Tier 1																										560	1120	196		160000	
	Barium	ug/L	Tier 1																										573	1145	201		160000	
	Barium	ug/L	Tier 1																										598	1196	210		160000	
	Barium	ug/L	Tier 1																										600	1201	210		160000	
	Barium	ug/L	Tier 1																										611	1221	214		160000	
	Barium	ug/L	Tier 1																										623	1247	218		160000	
	Barium	ug/L	Tier 1																										631	1262	221		160000	
	Barium	ug/L	Tier 1																										773	1547	271		160000	
	Barium	ug/L	Tier 1																										829	1658	291		160000	
	Barium	ug/L	Tier 1												8.8														1249	2498	438		160000	
	Barium	ug/L	Tier 1																										2059	4117	721		160000	
	Barium	ug/L	Tier 1																										2902	5803	1017		160000	
	Barium	ug/L	Tier 1																										2930	5859	1027		160000	
	Barium	ug/L	Tier 1																										2944	5887	1032		160000	
	Barium	ug/L	Tier 1																										3056	6111	1071		160000	
	Barium	ug/L	Tier 1																										3070	6139	1076		160000	
	Barium	ug/L	Tier 1																										3098	6195	1086		160000	
	Barium	ug/L	Tier 1																										3140	6279	1100		160000	
	Barium	ug/L	Tier 1																										3168	6335	1110		160000	
	Barium	ug/L	Tier 1																										3407	6813	1194		160000	
	Barium	ug/L	Tier 1																										3421	6841	1199		160000	
	Barium	ug/L	Tier 1																										3534	7067	1238		160000	
	Barium	ug/L	Tier 1																										3633	7265	1273		160000	
	Beryllium	ug/L	Tier 1																										0.65	1.3	0.072		1200	
	Beryllium	ug/L	Tier 1																										1.4	2.8	0.16		1200	
	Beryllium	ug/L	Tier 1																										1.4	2.8	0.16		1200	
	Beryllium	ug/L	Tier 1																									<0.070 U	1.5	3.0	0.16		1200	
	Beryllium	ug/L	Tier 1																										1.5	3.0	0.17		1200	
	Beryllium	ug/L	Tier 1																										1.5	3.0	0.17		1200	
	Beryllium	ug/L	Tier 1																			<0.070 U							1.7	3.3	0.19		1200	
	Beryllium	ug/L	Tier 1																										2.4	4.8	0.27		1200	
	Beryllium	ug/L	Tier 1																										3.2	6.4	0.35		1200	
	Beryllium	ug/L	Tier 1																										3.4	6.7	0.37		1200	
	Beryllium	ug/L	Tier 1																										3.7	7.5	0.41		1200	
	Beryllium	ug/L	Tier 1																										3.8	7.5	0.42		1200	
	Beryllium	ug/L	Tier 1																										3.9	7.9	0.44		1200	
	Beryllium	ug/L	Tier 1																										4.1	8.2	0.46		1200	
	Beryllium	ug/L	Tier 1																										4.2	8.5	0.47		1200	
	Beryllium	ug/L	Tier 1																										6.9	14	0.77		1200	
	Beryllium	ug/L	Tier 1																										8.1	16	0.90		1200	
	Beryllium	ug/L	Tier 1												<0.070 U														22	43	2.4		1200	
	Beryllium	ug/L	Tier 1																										71	141	7.9		1200	
	Beryllium	ug/L	Tier 1																										160	320	18		1200	
	Beryllium	ug/L	Tier 1																										163	327	18		1200	
	Beryllium	ug/L	Tier 1																										165	331	18		1200	
	Beryllium	ug/L	Tier 1																										181	362	20		1200	
	Beryllium	ug/L	Tier 1																										183	365	20		1200	
	Beryllium	ug/L	Tier 1																										187	373	21		1200	
	Beryllium	ug/L	Tier 1																										193	386	21		1200	
	Beryllium	ug/L	Tier 1																										197	394	22		1200	
	Beryllium	ug/L	Tier 1																										234	468	26		1200	
	Beryllium	ug/L	Tier 1																										236	473	26		1200	
	Beryllium	ug/L	Tier 1																										255	511	28		1200	
	Beryllium	ug/L	Tier 1																										273	545	30		1200	
	Boron	ug/L	Tier 1												48							8.0 J						12.8	16000	31000	1900		160000	
	Cadmium	ug/L	Tier 1																										0.95	1.9	0.80		130	
	Cadmium	ug/L	Tier 1																										1.3	2.6	1.0		130	
	Cadmium	ug/L	Tier 1																										1.3	2.7	1.0		130	
	Cadmium	ug/L	Tier 1																									<0.098 U	1.4	2.7	1.0		130	
	Cadmium	ug/L	Tier 1																										1.4	2.7	1.0		130	
	Cadmium	ug/L	Tier 1																										1.4	2.7	1.0		130	
	Cadmium	ug/L	Tier 1																			<0.098 U							1.4	2.8	1.1		130	
	Cadmium	ug/L	Tier 1																										1.7	3.3	1.2		130	
	Cadmium	ug/L	Tier 1																										1.9	3.8	1.3		130	
	Cadmium	ug/L	Tier 1																										1.9	3.8	1.3		130	
	Cadmium	ug/L	Tier 1																										2.0	4.0	1.3		130	
	Cadmium	ug/L	Tier 1																										2.0	4.0	1.3		130	
	Cadmium	ug/L	Tier 1																										2.1	4.1	1.4		130	
	Cadmium	ug/L	Tier 1																										2.1	4.2	1.4		130	
	Cadmium	ug/L	Tier 1																										2.1	4.2	1.4		130	
	Cadmium	ug/L	Tier 1																										2.6	5.2	1.6		130	
	Cadmium	ug/L	Tier 1																										2.8	5.6	1.7		130	
	Cadmium	ug/L	Tier 1												<0.097 U														4.3	8.5	2.2		130	
	Cadmium	ug/L	Tier 1																										7.1	14	3.2		130	
	Cadmium	ug/L	Tier 1																										10	20	4.0		130	
	Cadmium	ug/L	Tier 1																										10	20	4.0		130	
	Cadmium	ug/L	Tier 1																										10	20	4.1		130	
	Cadmium	ug/L	Tier 1																										11	21	4.2		130	
	Cadmium	ug/L	Tier 1																										11	21	4.2		130	
	Cadmium	ug/L	Tier 1																										11	22	4.2		130	
	Cadmium	ug/L	Tier 1																										11	22	4.2		130	
	Cadmium	ug/L	Tier 1																										11	22	4.3		130	
	Cadmium	ug/L	Tier 1																										12	24	4.5		130	
	Cadmium	ug/L	Tier 1																										12	24	4.5		130	
	Cadmium	ug/L	Tier 1																										12	25	4.6		130	
	Cadmium	ug/L	Tier 1																										13	25	4.7		130	
	Calcium	ug/L	Tier 1												24000							11300						10500						
	Chromium	ug/L	Tier 1																										183	366	24		9400	
	Chromium	ug/L	Tier 1																										235	471	31		9400	
	Chromium	ug/L	Tier 1																										236	472	31		9400	
	Chromium	ug/L	Tier 1																									<0.43 U	239	479	31		9400	
	Chromium	ug/L	Tier 1																										240	480	31		9400	
	Chromium	ug/L	Tier 1																										241	482	31		9400	
	Chromium	ug/L	Tier 1																			<0.43 U							249	498	32		9400	
	Chromium	ug/L	Tier 1																										280	560	36		9400	
	Chromium	ug/L	Tier 1																										307	614	40		9400	
	Chromium	ug/L	Tier 1																										312	625	41		9400	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Chromium	ug/L	Tier 1																										323	646	42		9400	
	Chromium	ug/L	Tier 1																										324	648	42		9400	
	Chromium	ug/L	Tier 1																										328	656	43		9400	
	Chromium	ug/L	Tier 1																										334	667	43		9400	
	Chromium	ug/L	Tier 1																										337	673	44		9400	
	Chromium	ug/L	Tier 1																										394	788	51		9400	
	Chromium	ug/L	Tier 1																										415	831	54		9400	
	Chromium	ug/L	Tier 1												<0.43 U														570	1140	74		9400	
	Chromium	ug/L	Tier 1																										837	1675	109		9400	
	Chromium	ug/L	Tier 1																										1091	2182	142		9400	
	Chromium	ug/L	Tier 1																										1099	2198	143		9400	
	Chromium	ug/L	Tier 1																										1103	2206	143		9400	
	Chromium	ug/L	Tier 1																										1135	2270	148		9400	
	Chromium	ug/L	Tier 1																										1139	2278	148		9400	
	Chromium	ug/L	Tier 1																										1147	2294	149		9400	
	Chromium	ug/L	Tier 1																										1159	2318	151		9400	
	Chromium	ug/L	Tier 1																										1167	2334	152		9400	
	Chromium	ug/L	Tier 1																										1234	2469	161		9400	
	Chromium	ug/L	Tier 1																										1238	2477	161		9400	
	Chromium	ug/L	Tier 1																										1270	2539	165		9400	
	Chromium	ug/L	Tier 1																										1297	2594	169		9400	
	Cobalt	ug/L	Tier 1												2.5							0.27 J						0.42 J	370	740	100			
	Copper	ug/L	Tier 1																										3.6	7.3	2.7		38000	
	Copper	ug/L	Tier 1																										4.9	9.7	3.6		38000	
	Copper	ug/L	Tier 1																										4.9	9.8	3.6		38000	
	Copper	ug/L	Tier 1																									0.16 J	5.0	9.9	3.6		38000	
	Copper	ug/L	Tier 1																										5.0	9.9	3.6		38000	
	Copper	ug/L	Tier 1																										5.0	10	3.7		38000	
	Copper	ug/L	Tier 1																			0.41 J							5.2	10	3.8		38000	
	Copper	ug/L	Tier 1																										5.9	12	4.3		38000	
	Copper	ug/L	Tier 1																										6.6	13	4.7		38000	
	Copper	ug/L	Tier 1																										6.7	13	4.8		38000	
	Copper	ug/L	Tier 1																										7.0	14	5.0		38000	
	Copper	ug/L	Tier 1																										7.0	14	5.0		38000	
	Copper	ug/L	Tier 1																										7.1	14	5.0		38000	
	Copper	ug/L	Tier 1																										7.3	15	5.1		38000	
	Copper	ug/L	Tier 1																										7.3	15	5.2		38000	
	Copper	ug/L	Tier 1																										8.8	18	6.1		38000	
	Copper	ug/L	Tier 1																										9.3	19	6.4		38000	
	Copper	ug/L	Tier 1												1.5														13	27	9.0		38000	
	Copper	ug/L	Tier 1																										21	42	13		38000	
	Copper	ug/L	Tier 1																										28	57	18		38000	
	Copper	ug/L	Tier 1																										29	57	18		38000	
	Copper	ug/L	Tier 1																										29	57	18		38000	
	Copper	ug/L	Tier 1																										30	59	18		38000	
	Copper	ug/L	Tier 1																										30	60	18		38000	
	Copper	ug/L	Tier 1																										30	60	19		38000	
	Copper	ug/L	Tier 1																										30	61	19		38000	
	Copper	ug/L	Tier 1																										31	61	19		38000	
	Copper	ug/L	Tier 1																										33	65	20		38000	
	Copper	ug/L	Tier 1																										33	66	20		38000	
	Copper	ug/L	Tier 1																										34	68	21		38000	
	Copper	ug/L	Tier 1																										35	69	21		38000	
	Iron	ug/L	Tier 1												1800							19700						7350						
	Lead	ug/L	Tier 1																										20	39	2.2		190	
	Lead	ug/L	Tier 1																										28	56	3.1		190	
	Lead	ug/L	Tier 1																										28	56	3.1		190	
	Lead	ug/L	Tier 1																									<0.044 U	28	57	3.2		190	
	Lead	ug/L	Tier 1																										29	57	3.2		190	
	Lead	ug/L	Tier 1																										29	57	3.2		190	
	Lead	ug/L	Tier 1																			0.12 J							30	60	3.4		190	
	Lead	ug/L	Tier 1																										35	70	4.0		190	
	Lead	ug/L	Tier 1																										40	80	4.5		190	
	Lead	ug/L	Tier 1																										41	82	4.6		190	
	Lead	ug/L	Tier 1																										43	86	4.8		190	
	Lead	ug/L	Tier 1																										43	86	4.8		190	
	Lead	ug/L	Tier 1																										44	87	4.9		190	
	Lead	ug/L	Tier 1																										45	89	5.0		190	
	Lead	ug/L	Tier 1																										45	90	5.1		190	
	Lead	ug/L	Tier 1																										56	112	6.3		190	
	Lead	ug/L	Tier 1																										60	120	6.8		190	
	Lead	ug/L	Tier 1												0.11 B														92	183	10		190	
	Lead	ug/L	Tier 1																										152	305	17		190	
	Lead	ug/L	Tier 1																										215	430	24		190	
	Lead	ug/L	Tier 1																										217	434	24		190	
	Lead	ug/L	Tier 1																										218	436	24		190	
	Lead	ug/L	Tier 1																										226	452	25		190	
	Lead	ug/L	Tier 1																										227	454	26		190	
	Lead	ug/L	Tier 1																										229	458	26		190	
	Lead	ug/L	Tier 1																										232	465	26		190	
	Lead	ug/L	Tier 1																										234	469	26		190	
	Lead	ug/L	Tier 1																										252	504	28		190	
	Lead	ug/L	Tier 1																										253	506	28		190	
	Lead	ug/L	Tier 1																										261	522	29		190	
	Lead	ug/L	Tier 1																										268	537	30		190	
	Lithium	ug/L	Tier 1												1.6							0.25 J						0.27 J	870	1700	96		58000	
	Magnesium	ug/L	Tier 1												10000							1980						2060						
	Manganese	ug/L	Tier 1																										1232	2464	571		59000	
	Manganese	ug/L	Tier 1																										1614	3228	748		59000	
	Manganese	ug/L	Tier 1																										1618	3236	750		59000	
	Manganese	ug/L	Tier 1																									**2010**	1643	3286	762		59000	
	Manganese	ug/L	Tier 1																										1647	3294	763		59000	
	Manganese	ug/L	Tier 1																										1656	3311	767		59000	
	Manganese	ug/L	Tier 1																			253							1714	3427	794		59000	
	Manganese	ug/L	Tier 1																										1943	3886	901		59000	
	Manganese	ug/L	Tier 1																										2145	4290	994		59000	
	Manganese	ug/L	Tier 1																										2185	4370	1013		59000	
	Manganese	ug/L	Tier 1																										2265	4529	1050		59000	
	Manganese	ug/L	Tier 1																										2273	4545	1053		59000	
	Manganese	ug/L	Tier 1																										2304	4609	1068		59000	
	Manganese	ug/L	Tier 1																										2344	4688	1086		59000	
	Manganese	ug/L	Tier 1																										2368	4736	1097		59000	
	Manganese	ug/L	Tier 1																										2802	5603	1298		59000	
	Manganese	ug/L	Tier 1																										2967	5934	1375		59000	
	Manganese	ug/L	Tier 1												**2200**														4163	8326	1930		59000	
	Manganese	ug/L	Tier 1																										6291	12582	2916		59000	
	Manganese	ug/L	Tier 1																										8355	16710	3872		59000	
	Manganese	ug/L	Tier 1																										8422	16842	3903		59000	
	Manganese	ug/L	Tier 1																										8455	16909	3919		59000	
	Manganese	ug/L	Tier 1																										8719	17438	4041		59000	
	Manganese	ug/L	Tier 1																										8752	17504	4057		59000	
	Manganese	ug/L	Tier 1																										8818	17636	4087		59000	
	Manganese	ug/L	Tier 1																										8917	17834	4133		59000	
	Manganese	ug/L	Tier 1																										8983	17965	4163		59000	
	Manganese	ug/L	Tier 1																										9540	19078	4421		59000	
	Manganese	ug/L	Tier 1																										9572	19144	4436		59000	
	Manganese	ug/L	Tier 1																										9832	19664	4557		59000	
	Manganese	ug/L	Tier 1																										10059	20118	4662		59000	
	Mercury - low level	ng/L	Tier 1												0.918							**3.37**						1.24	1400	2800	770		1.8	1.3
	Molybdenum	ug/L	Tier 1												0.23 B							<0.11 U						0.11 J	29000	58000	3200		10000	
	Nickel	ug/L	Tier 1																										145	290	16		210000	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Nickel	ug/L	Tier 1																										188	376	21		210000	
	Nickel	ug/L	Tier 1																										188	377	21		210000	
	Nickel	ug/L	Tier 1																									0.29 J	191	382	21		210000	
	Nickel	ug/L	Tier 1																										192	383	21		210000	
	Nickel	ug/L	Tier 1																										193	385	21		210000	
	Nickel	ug/L	Tier 1																			0.33 J							199	398	22		210000	
	Nickel	ug/L	Tier 1																										225	450	25		210000	
	Nickel	ug/L	Tier 1																										247	494	27		210000	
	Nickel	ug/L	Tier 1																										252	503	28		210000	
	Nickel	ug/L	Tier 1																										260	521	29		210000	
	Nickel	ug/L	Tier 1																										261	523	29		210000	
	Nickel	ug/L	Tier 1																										265	530	29		210000	
	Nickel	ug/L	Tier 1																										269	539	30		210000	
	Nickel	ug/L	Tier 1																										272	544	30		210000	
	Nickel	ug/L	Tier 1																										320	639	36		210000	
	Nickel	ug/L	Tier 1																										338	676	38		210000	
	Nickel	ug/L	Tier 1												3.7														468	936	52		210000	
	Nickel	ug/L	Tier 1																										697	1394	77		210000	
	Nickel	ug/L	Tier 1																										916	1832	102		210000	
	Nickel	ug/L	Tier 1																										923	1846	103		210000	
	Nickel	ug/L	Tier 1																										926	1853	103		210000	
	Nickel	ug/L	Tier 1																										954	1909	106		210000	
	Nickel	ug/L	Tier 1																										958	1915	106		210000	
	Nickel	ug/L	Tier 1																										965	1929	107		210000	
	Nickel	ug/L	Tier 1																										975	1950	108		210000	
	Nickel	ug/L	Tier 1																										982	1964	109		210000	
	Nickel	ug/L	Tier 1																										1041	2081	116		210000	
	Nickel	ug/L	Tier 1																										1044	2088	116		210000	
	Nickel	ug/L	Tier 1																										1071	2143	119		210000	
	Nickel	ug/L	Tier 1																										1095	2190	122		210000	
	Potassium	ug/L	Tier 1												3000							1090						1210						
	Selenium	ug/L	Tier 1												<0.15 U							<0.15 U						<0.15 U	62	120	5		2700	
	Silver	ug/L	Tier 1												<0.11 P,U							<0.11 P,U						<0.11 P,U	0.54	1.1	0.06		11000	
	Sodium	ug/L	Tier 1												2200							753						841						
	Thallium	ug/L	Tier 1												<0.030 U							<0.03 U						<0.03 U	47	94	7.2		3.7	
	Total Hardness	ug/L	Tier 1												100000							36400						34700						
	Vanadium	ug/L	Tier 1												<0.41 U							<0.41 U						<0.41 U	110	220	12		2200	
	Zinc	ug/L	Tier 1																										36	72	36		16000	
	Zinc	ug/L	Tier 1																										47	94	47		16000	
	Zinc	ug/L	Tier 1																										47	94	47		16000	
	Zinc	ug/L	Tier 1																									6 J	48	96	48		16000	
	Zinc	ug/L	Tier 1																										48	96	48		16000	
	Zinc	ug/L	Tier 1																										48	96	49		16000	
	Zinc	ug/L	Tier 1																			15.2							50	100	50		16000	
	Zinc	ug/L	Tier 1																										56	112	57		16000	
	Zinc	ug/L	Tier 1																										62	124	62		16000	
	Zinc	ug/L	Tier 1																										63	126	63		16000	
	Zinc	ug/L	Tier 1																										65	130	66		16000	
	Zinc	ug/L	Tier 1																										65	131	66		16000	
	Zinc	ug/L	Tier 1																										66	132	67		16000	
	Zinc	ug/L	Tier 1																										67	135	68		16000	
	Zinc	ug/L	Tier 1																										68	136	69		16000	
	Zinc	ug/L	Tier 1																										80	160	81		16000	
	Zinc	ug/L	Tier 1																										85	169	85		16000	
	Zinc	ug/L	Tier 1												6.4 B														117	234	118		16000	
	Zinc	ug/L	Tier 1																										175	349	176		16000	
	Zinc	ug/L	Tier 1																										229	459	231		16000	
	Zinc	ug/L	Tier 1																										231	462	233		16000	
	Zinc	ug/L	Tier 1																										232	464	234		16000	
	Zinc	ug/L	Tier 1																										239	478	241		16000	
	Zinc	ug/L	Tier 1																										240	480	242		16000	
	Zinc	ug/L	Tier 1																										242	483	244		16000	
	Zinc	ug/L	Tier 1																										244	489	246		16000	
	Zinc	ug/L	Tier 1																										246	492	248		16000	
	Zinc	ug/L	Tier 1																										261	521	263		16000	
	Zinc	ug/L	Tier 1																										262	523	264		16000	
	Zinc	ug/L	Tier 1																										268	537	271		16000	
	Zinc	ug/L	Tier 1																										274	549	277		16000	
	Inorganics																																	
	Bicarbonate Alkalinity	mg/L	Tier 1												110							37.7						35.5						
	Carbonate Alkalinity	mg/L	Tier 1												<3.2 U							<3.2 U						<3.2 U						
	Chloride	mg/L	Tier 1												3.2 B							2.4 J						2.3 J						
	COD	mg/L	Tier 1												26 B							77.7						37.5 J						
	Cyanide, total	mg/L	Tier 1												<0.0060 P,U							**0.0087 J**						**0.0091 J**	0.022	0.044	0.0052		48	
	Fluoride	mg/L	Tier 1												0.38 B							0.23 J						0.23 J						
	Gross Alpha	pCi/L	Tier 1												-0.266 +/- 0.330							0.431 +/- 0.710						0.111 +/- 0.529						
	Gross Beta	pCi/L	Tier 1												3.93 +/- 1.42							2.08 +/- 1.05						1.18 +/- 0.933						
	Nitrogen, Ammonia	mg/L	Tier 1												<0.50 U							1.1						<0.5 U						
	Nitrogen, Nitrate	mg/L	Tier 1												0.21 B							0.15 J						<0.085 U						
	Nitrogen, Nitrite	mg/L	Tier 1												<0.036 U							0.17						<0.036 U						
	Sulfate	mg/L	Tier 1												14							<0.51 U						7						
	Sulfide	mg/L	Tier 1												<2.3 U							<2.3 U						<2.30 U						
	TOC as NPOC	mg/L	Tier 1												5							26.5						9.7						
	TOC as NPOC - Dissolved	mg/L	Tier 1												5.6							22.7						10.1						
	Total Alkalinity	mg/L	Tier 1												110							37.7						35.5						
	Total Dissolved Solids	mg/L	Tier 1												130							88						76						
	Total Suspended Solids	mg/L	Tier 1												3.2							30.5						18.8						
4/30/2008	**Field Measurement**																																	
	Conductivity	mmhos	Tier 1												142	100		119		22				29										
	Conductivity	mmhos	Tier 1												142	100		119		22				29										
	Depth to Water	ft	Tier 1																															
	Dissolved Oxygen	mg/L	Tier 1												3.05	6.38		2.79		7.92				12.45										
	Flow	cfs	Tier 1													0.0339		<0.05																
	GW Elevation	ft msl	Tier 1																															
	Iron, Ferrous	ug/L	Tier 1																															
	ORP	mV	Tier 1												-28.3	114.7		104.5		99.5				58.3										
	pH	S.U.	Tier 1												6.81	6.95		6.72		5.75				6.59										
	Specific Conductance	umhos/cm @25 degrees C	Tier 1												210	151		186		34				41										
	Temperature	Celcius	Tier 1												7.98	7.13		6.19		7.26							9.91							
	Turbidity	NTU	Tier 1												37.3	2.7	53.4			3				3.9										
	Metals																																	
	Aluminum	ug/L	Tier 1												64.9	25.9 J	72.4			36.7 J				20.9 J										
	Antimony	ug/L	Tier 1												<0.10 U	0.12 J	<0.10 U			<0.10 U				<0.10 U					1100	2300	240		130	
	Arsenic	ug/L	Tier 1												0.91 J	0.32 J	1.4			0.3 J				0.44 J					340	680	150		280	
	Barium	ug/L	Tier 1																										100	200	35		160000	
	Barium	ug/L	Tier 1																										153	307	54		160000	
	Barium	ug/L	Tier 1																	9.8									163	326	57		160000	
	Barium	ug/L	Tier 1																										171	342	60		160000	
	Barium	ug/L	Tier 1																										173	347	61		160000	
	Barium	ug/L	Tier 1																										176	351	62		160000	
	Barium	ug/L	Tier 1																					14.4					197	394	69		160000	
	Barium	ug/L	Tier 1																										275	551	96		160000	
	Barium	ug/L	Tier 1																										278	555	97		160000	
	Barium	ug/L	Tier 1																										317	633	111		160000	
	Barium	ug/L	Tier 1																										355	710	124		160000	
	Barium	ug/L	Tier 1																										372	744	130		160000	
	Barium	ug/L	Tier 1																										375	749	131		160000	
	Barium	ug/L	Tier 1																										376	752	132		160000	
	Barium	ug/L	Tier 1																										482	963	169		160000	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Barium	ug/L	Tier 1																										494	989	173		160000	
	Barium	ug/L	Tier 1																										498	996	175		160000	
	Barium	ug/L	Tier 1																										559	1117	196		160000	
	Barium	ug/L	Tier 1													8.0													811	1622	284		160000	
	Barium	ug/L	Tier 1														21.4												963	1926	338		160000	
	Barium	ug/L	Tier 1												10.6														1089	2178	382		160000	
	Barium	ug/L	Tier 1																										1302	2605	456		160000	
	Barium	ug/L	Tier 1																										1651	3302	579		160000	
	Barium	ug/L	Tier 1																										2471	4942	866		160000	
	Barium	ug/L	Tier 1																										2624	5247	919		160000	
	Barium	ug/L	Tier 1																										2651	5302	929		160000	
	Barium	ug/L	Tier 1																										2749	5497	963		160000	
	Barium	ug/L	Tier 1																										2776	5553	973		160000	
	Barium	ug/L	Tier 1																										2804	5608	983		160000	
	Barium	ug/L	Tier 1																										2860	5720	1002		160000	
	Barium	ug/L	Tier 1																										2902	5803	1017		160000	
	Barium	ug/L	Tier 1																										3042	6083	1066		160000	
	Barium	ug/L	Tier 1																										3056	6111	1071		160000	
	Barium	ug/L	Tier 1																										3379	6757	1184		160000	
	Barium	ug/L	Tier 1																										3590	7180	1258		160000	
	Beryllium	ug/L	Tier 1																										0.053	0.11	0.006		1200	
	Beryllium	ug/L	Tier 1																										0.15	0.29	0.016		1200	
	Beryllium	ug/L	Tier 1																	<0.070 P,U									0.17	0.34	0.019		1200	
	Beryllium	ug/L	Tier 1																										0.19	0.38	0.021		1200	
	Beryllium	ug/L	Tier 1																										0.20	0.39	0.022		1200	
	Beryllium	ug/L	Tier 1																										0.20	0.41	0.023		1200	
	Beryllium	ug/L	Tier 1																					<0.070 P,U					0.27	0.53	0.030		1200	
	Beryllium	ug/L	Tier 1																										0.59	1.18	0.066		1200	
	Beryllium	ug/L	Tier 1																										0.60	1.21	0.067		1200	
	Beryllium	ug/L	Tier 1																										0.82	1.65	0.092		1200	
	Beryllium	ug/L	Tier 1																										1.1	2.2	0.12		1200	
	Beryllium	ug/L	Tier 1																										1.2	2.4	0.13		1200	
	Beryllium	ug/L	Tier 1																										1.2	2.5	0.14		1200	
	Beryllium	ug/L	Tier 1																										1.2	2.5	0.14		1200	
	Beryllium	ug/L	Tier 1																										2.2	4.5	0.25		1200	
	Beryllium	ug/L	Tier 1																										2.4	4.7	0.26		1200	
	Beryllium	ug/L	Tier 1																										2.4	4.8	0.27		1200	
	Beryllium	ug/L	Tier 1																										3.2	6.4	0.35		1200	
	Beryllium	ug/L	Tier 1													<0.070 U													7.7	15	0.86		1200	
	Beryllium	ug/L	Tier 1														<0.070 U												12	23	1.3		1200	
	Beryllium	ug/L	Tier 1												<0.070 U														16	31	1.7		1200	
	Beryllium	ug/L	Tier 1																										24	48	2.6		1200	
	Beryllium	ug/L	Tier 1																										42	84	4.6		1200	
	Beryllium	ug/L	Tier 1																										109	218	12.1		1200	
	Beryllium	ug/L	Tier 1																										126	252	14.0		1200	
	Beryllium	ug/L	Tier 1																										129	258	14.3		1200	
	Beryllium	ug/L	Tier 1																										140	281	15.6		1200	
	Beryllium	ug/L	Tier 1																										144	288	16.0		1200	
	Beryllium	ug/L	Tier 1																										147	295	16.4		1200	
	Beryllium	ug/L	Tier 1																										154	309	17.2		1200	
	Beryllium	ug/L	Tier 1																										160	320	17.8		1200	
	Beryllium	ug/L	Tier 1																										179	358	19.9		1200	
	Beryllium	ug/L	Tier 1																										181	362	20.1		1200	
	Beryllium	ug/L	Tier 1																										229	459	25.5		1200	
	Beryllium	ug/L	Tier 1																										265	530	29.5		1200	
	Boron	ug/L	Tier 1												41.1	34.9	40.1			8.6 J				9.2 J					16000	31000	1900		160000	
	Cadmium	ug/L	Tier 1																										0.32	0.65	0.38		130	
	Cadmium	ug/L	Tier 1																										0.50	1.0	0.52		130	
	Cadmium	ug/L	Tier 1																	<0.098 U									0.53	1.1	0.54		130	
	Cadmium	ug/L	Tier 1																										0.56	1.1	0.56		130	
	Cadmium	ug/L	Tier 1																										0.57	1.1	0.56		130	
	Cadmium	ug/L	Tier 1																										0.58	1.2	0.57		130	
	Cadmium	ug/L	Tier 1																					<0.098 U					0.65	1.3	0.62		130	
	Cadmium	ug/L	Tier 1																										0.91	1.8	0.78		130	
	Cadmium	ug/L	Tier 1																										0.92	1.8	0.78		130	
	Cadmium	ug/L	Tier 1																										1.1	2.1	0.86		130	
	Cadmium	ug/L	Tier 1																										1.2	2.4	0.93		130	
	Cadmium	ug/L	Tier 1																										1.2	2.5	0.96		130	
	Cadmium	ug/L	Tier 1																										1.2	2.5	0.97		130	
	Cadmium	ug/L	Tier 1																										1.3	2.5	0.97		130	
	Cadmium	ug/L	Tier 1																										1.6	3.2	1.2		130	
	Cadmium	ug/L	Tier 1																										1.7	3.3	1.2		130	
	Cadmium	ug/L	Tier 1																										1.7	3.3	1.2		130	
	Cadmium	ug/L	Tier 1																										1.9	3.8	1.3		130	
	Cadmium	ug/L	Tier 1													<0.098 U													2.7	5.5	1.7		130	
	Cadmium	ug/L	Tier 1														<0.098 U												3.3	6.5	1.9		130	
	Cadmium	ug/L	Tier 1												<0.098 U														3.7	7.4	2.0		130	
	Cadmium	ug/L	Tier 1																										4.4	8.9	2.3		130	
	Cadmium	ug/L	Tier 1																										5.7	11	2.7		130	
	Cadmium	ug/L	Tier 1																										8.5	17	3.6		130	
	Cadmium	ug/L	Tier 1																										9.1	18	3.7		130	
	Cadmium	ug/L	Tier 1																										9.2	18	3.8		130	
	Cadmium	ug/L	Tier 1																										9.5	19	3.9		130	
	Cadmium	ug/L	Tier 1																										9.6	19	3.9		130	
	Cadmium	ug/L	Tier 1																										9.7	19	3.9		130	
	Cadmium	ug/L	Tier 1																										9.9	20	4.0		130	
	Cadmium	ug/L	Tier 1																										10	20	4.0		130	
	Cadmium	ug/L	Tier 1																										11	21	4.2		130	
	Cadmium	ug/L	Tier 1																										11	21	4.2		130	
	Cadmium	ug/L	Tier 1																										12	23	4.5		130	
	Cadmium	ug/L	Tier 1																										12	25	4.7		130	
	Calcium	ug/L	Tier 1												20600	15000	18500			4410				5190										
	Chromium	ug/L	Tier 1																										81	163	11		9400	
	Chromium	ug/L	Tier 1																										113	226	15		9400	
	Chromium	ug/L	Tier 1																	<0.43 U									119	237	15		9400	
	Chromium	ug/L	Tier 1																										123	246	16		9400	
	Chromium	ug/L	Tier 1																										124	249	16		9400	
	Chromium	ug/L	Tier 1																										126	251	16		9400	
	Chromium	ug/L	Tier 1																					<0.43 U					137	275	18		9400	
	Chromium	ug/L	Tier 1																										178	355	23		9400	
	Chromium	ug/L	Tier 1																										179	358	23		9400	
	Chromium	ug/L	Tier 1																										198	396	26		9400	
	Chromium	ug/L	Tier 1																										216	432	28		9400	
	Chromium	ug/L	Tier 1																										224	448	29		9400	
	Chromium	ug/L	Tier 1																										225	450	29		9400	
	Chromium	ug/L	Tier 1																										226	452	29		9400	
	Chromium	ug/L	Tier 1																										273	547	36		9400	
	Chromium	ug/L	Tier 1																										279	558	36		9400	
	Chromium	ug/L	Tier 1																										281	561	36		9400	
	Chromium	ug/L	Tier 1																										306	613	40		9400	
	Chromium	ug/L	Tier 1													0.49 J													408	817	53		9400	
	Chromium	ug/L	Tier 1														0.47 J												466	933	61		9400	
	Chromium	ug/L	Tier 1												0.52 J														513	1025	67		9400	
	Chromium	ug/L	Tier 1																										588	1177	77		9400	
	Chromium	ug/L	Tier 1																										706	1413	92		9400	
	Chromium	ug/L	Tier 1																										964	1928	125		9400	
	Chromium	ug/L	Tier 1																										1009	2019	131		9400	
	Chromium	ug/L	Tier 1																										1017	2035	132		9400	
	Chromium	ug/L	Tier 1																										1046	2092	136		9400	
	Chromium	ug/L	Tier 1																										1054	2109	137		9400	
	Chromium	ug/L	Tier 1																										1062	2125	138		9400	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Chromium	ug/L	Tier 1																										1079	2157	140		9400	
	Chromium	ug/L	Tier 1																										1091	2182	142		9400	
	Chromium	ug/L	Tier 1																										1131	2262	147		9400	
	Chromium	ug/L	Tier 1																										1135	2270	148		9400	
	Chromium	ug/L	Tier 1																										1226	2453	160		9400	
	Chromium	ug/L	Tier 1																										1285	2570	167		9400	
	Cobalt	ug/L	Tier 1												0.73 J	0.48 J	0.55 J			0.06 J				0.1 J					370	740	100			
	Copper	ug/L	Tier 1																										1.4	2.9	1.2		38000	
	Copper	ug/L	Tier 1																										2.1	4.2	1.7		38000	
	Copper	ug/L	Tier 1																	0.31 J									2.2	4.4	1.7		38000	
	Copper	ug/L	Tier 1																										2.3	4.6	1.8		38000	
	Copper	ug/L	Tier 1																										2.3	4.7	1.8		38000	
	Copper	ug/L	Tier 1																										2.4	4.7	1.9		38000	
	Copper	ug/L	Tier 1																					0.36 J					2.6	5.2	2.0		38000	
	Copper	ug/L	Tier 1																										3.5	7.0	2.7		38000	
	Copper	ug/L	Tier 1																										3.5	7.1	2.7		38000	
	Copper	ug/L	Tier 1																										4.0	8.0	3.0		38000	
	Copper	ug/L	Tier 1																										4.4	8.8	3.3		38000	
	Copper	ug/L	Tier 1																										4.6	9.2	3.4		38000	
	Copper	ug/L	Tier 1																										4.6	9.2	3.4		38000	
	Copper	ug/L	Tier 1																										4.6	9.3	3.4		38000	
	Copper	ug/L	Tier 1																										5.8	12	4.2		38000	
	Copper	ug/L	Tier 1																										5.9	12	4.3		38000	
	Copper	ug/L	Tier 1																										5.9	12	4.3		38000	
	Copper	ug/L	Tier 1																										6.6	13	4.7		38000	
	Copper	ug/L	Tier 1													2.6													9.2	18	6.3		38000	
	Copper	ug/L	Tier 1														0.42 J												10.7	21	7.3		38000	
	Copper	ug/L	Tier 1												0.34 J														11.9	24	8.0		38000	
	Copper	ug/L	Tier 1																										13.9	28	9.3		38000	
	Copper	ug/L	Tier 1																										17.2	34	11		38000	
	Copper	ug/L	Tier 1																										24.6	49	15		38000	
	Copper	ug/L	Tier 1																										25.9	52	16		38000	
	Copper	ug/L	Tier 1																										26.2	52	16		38000	
	Copper	ug/L	Tier 1																										27.0	54	17		38000	
	Copper	ug/L	Tier 1																										27.3	55	17		38000	
	Copper	ug/L	Tier 1																										27.5	55	17		38000	
	Copper	ug/L	Tier 1																										28.0	56	17		38000	
	Copper	ug/L	Tier 1																										28.4	57	18		38000	
	Copper	ug/L	Tier 1																										29.6	59	18		38000	
	Copper	ug/L	Tier 1																										29.7	59	18		38000	
	Copper	ug/L	Tier 1																										32.5	65	20		38000	
	Copper	ug/L	Tier 1																										34.3	69	21		38000	
	Iron	ug/L	Tier 1												4850	254	7440			2180				1780										
	Lead	ug/L	Tier 1																										6.4	13	0.72		190	
	Lead	ug/L	Tier 1																										10	20	1.1		190	
	Lead	ug/L	Tier 1																	0.16 J									11	22	1.2		190	
	Lead	ug/L	Tier 1																										11	23	1.3		190	
	Lead	ug/L	Tier 1																										12	23	1.3		190	
	Lead	ug/L	Tier 1																										12	23	1.3		190	
	Lead	ug/L	Tier 1																					0.09 J					13	27	1.5		190	
	Lead	ug/L	Tier 1																										19	38	2.1		190	
	Lead	ug/L	Tier 1																										19	38	2.1		190	
	Lead	ug/L	Tier 1																										22	44	2.5		190	
	Lead	ug/L	Tier 1																										25	49	2.8		190	
	Lead	ug/L	Tier 1																										26	52	2.9		190	
	Lead	ug/L	Tier 1																										26	52	2.9		190	
	Lead	ug/L	Tier 1																										26	53	3.0		190	
	Lead	ug/L	Tier 1																										34	68	3.8		190	
	Lead	ug/L	Tier 1																										35	70	3.9		190	
	Lead	ug/L	Tier 1																										35	71	4.0		190	
	Lead	ug/L	Tier 1																										40	80	4.5		190	
	Lead	ug/L	Tier 1													0.26 J													59	117	6.6		190	
	Lead	ug/L	Tier 1														0.59 J												70	140	7.9		190	
	Lead	ug/L	Tier 1												0.13 J														80	159	8.9		190	
	Lead	ug/L	Tier 1																										96	191	11		190	
	Lead	ug/L	Tier 1																										122	244	14		190	
	Lead	ug/L	Tier 1																										183	366	21		190	
	Lead	ug/L	Tier 1																										194	389	22		190	
	Lead	ug/L	Tier 1																										196	393	22		190	
	Lead	ug/L	Tier 1																										203	407	23		190	
	Lead	ug/L	Tier 1																										206	411	23		190	
	Lead	ug/L	Tier 1																										208	415	23		190	
	Lead	ug/L	Tier 1																										212	423	24		190	
	Lead	ug/L	Tier 1																										215	430	24		190	
	Lead	ug/L	Tier 1																										225	450	25		190	
	Lead	ug/L	Tier 1																										226	452	25		190	
	Lead	ug/L	Tier 1																										250	500	28		190	
	Lead	ug/L	Tier 1																										265	530	30		190	
	Lithium	ug/L	Tier 1												1.8	0.56 J	0.84 J			0.26 J				0.3 J					870	1700	96		58000	
	Magnesium	ug/L	Tier 1												8880	7040	7780			907				1120										
	Manganese	ug/L	Tier 1																										517	1034	240		59000	
	Manganese	ug/L	Tier 1																										736	1471	341		59000	
	Manganese	ug/L	Tier 1																	17.5									773	1545	358		59000	
	Manganese	ug/L	Tier 1																										805	1610	373		59000	
	Manganese	ug/L	Tier 1																										814	1628	377		59000	
	Manganese	ug/L	Tier 1																										823	1646	382		59000	
	Manganese	ug/L	Tier 1																					238					905	1810	419		59000	
	Manganese	ug/L	Tier 1																										1193	2386	553		59000	
	Manganese	ug/L	Tier 1																										1202	2403	557		59000	
	Manganese	ug/L	Tier 1																										1340	2679	621		59000	
	Manganese	ug/L	Tier 1																										1471	2942	682		59000	
	Manganese	ug/L	Tier 1																										1530	3060	709		59000	
	Manganese	ug/L	Tier 1																										1539	3077	713		59000	
	Manganese	ug/L	Tier 1																										1543	3086	715		59000	
	Manganese	ug/L	Tier 1																										1894	3788	878		59000	
	Manganese	ug/L	Tier 1																										1935	3870	897		59000	
	Manganese	ug/L	Tier 1																										1947	3894	902		59000	
	Manganese	ug/L	Tier 1																										2141	4282	992		59000	
	Manganese	ug/L	Tier 1													35.6													2913	5826	1350		59000	
	Manganese	ug/L	Tier 1														1530												3358	6716	1557		59000	
	Manganese	ug/L	Tier 1												1460														3717	7435	1723		59000	
	Manganese	ug/L	Tier 1																										4309	8618	1997		59000	
	Manganese	ug/L	Tier 1																										5242	10484	2430		59000	
	Manganese	ug/L	Tier 1																										7316	14632	3391		59000	
	Manganese	ug/L	Tier 1																										7687	15374	3563		59000	
	Manganese	ug/L	Tier 1																										7754	15508	3594		59000	
	Manganese	ug/L	Tier 1																										7989	15977	3703		59000	
	Manganese	ug/L	Tier 1																										8056	16110	3734		59000	
	Manganese	ug/L	Tier 1																										8122	16244	3765		59000	
	Manganese	ug/L	Tier 1																										8256	16510	3826		59000	
	Manganese	ug/L	Tier 1																										8355	16710	3872		59000	
	Manganese	ug/L	Tier 1																										8686	17372	4026		59000	
	Manganese	ug/L	Tier 1																										8719	17438	4041		59000	
	Manganese	ug/L	Tier 1																										9474	18948	4391		59000	
	Manganese	ug/L	Tier 1																										9962	19923	4617		59000	
	Mercury - low level	ng/L	Tier 1												1.14	**6.2**	**1.79**			**2.65**				**1.72**					1400	2800	770		1.8	1.3
	Molybdenum	ug/L	Tier 1												0.28 J	<0.11 U	0.32 J			<0.11 U				<0.11 U					29000	58000	3200		10000	
	Nickel	ug/L	Tier 1																										63	126	7		210000	
	Nickel	ug/L	Tier 1																										88	176	10		210000	
	Nickel	ug/L	Tier 1																	0.51 J									92	185	10		210000	
	Nickel	ug/L	Tier 1																										96	192	11		210000	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Nickel	ug/L	Tier 1																										97	194	11		210000	
	Nickel	ug/L	Tier 1																										98	197	11		210000	
	Nickel	ug/L	Tier 1																					0.64 J					108	215	12		210000	
	Nickel	ug/L	Tier 1																										140	281	16		210000	
	Nickel	ug/L	Tier 1																										141	283	16		210000	
	Nickel	ug/L	Tier 1																										157	314	17		210000	
	Nickel	ug/L	Tier 1																										172	344	19		210000	
	Nickel	ug/L	Tier 1																										179	357	20		210000	
	Nickel	ug/L	Tier 1																										180	359	20		210000	
	Nickel	ug/L	Tier 1																										180	360	20		210000	
	Nickel	ug/L	Tier 1																										219	439	24		210000	
	Nickel	ug/L	Tier 1																										224	448	25		210000	
	Nickel	ug/L	Tier 1																										225	450	25		210000	
	Nickel	ug/L	Tier 1																										247	494	27		210000	
	Nickel	ug/L	Tier 1													1.9													332	664	37		210000	
	Nickel	ug/L	Tier 1														0.44 J												381	761	42		210000	
	Nickel	ug/L	Tier 1												0.48 J														420	840	47		210000	
	Nickel	ug/L	Tier 1																										484	968	54		210000	
	Nickel	ug/L	Tier 1																										585	1169	65		210000	
	Nickel	ug/L	Tier 1																										806	1612	90		210000	
	Nickel	ug/L	Tier 1																										845	1690	94		210000	
	Nickel	ug/L	Tier 1																										852	1705	95		210000	
	Nickel	ug/L	Tier 1																										877	1754	97		210000	
	Nickel	ug/L	Tier 1																										884	1768	98		210000	
	Nickel	ug/L	Tier 1																										891	1782	99		210000	
	Nickel	ug/L	Tier 1																										905	1811	101		210000	
	Nickel	ug/L	Tier 1																										916	1832	102		210000	
	Nickel	ug/L	Tier 1																										951	1902	106		210000	
	Nickel	ug/L	Tier 1																										954	1909	106		210000	
	Nickel	ug/L	Tier 1																										1034	2067	115		210000	
	Nickel	ug/L	Tier 1																										1085	2170	121		210000	
	Potassium	ug/L	Tier 1												3310	2640	3030			618				761										
	Selenium	ug/L	Tier 1												0.62 J	<0.15 U	<0.15 U			0.44 J				0.44 J					62	120	5		2700	
	Silver	ug/L	Tier 1												<0.11 P,U	<0.11 P,U	<0.11 P,U			<0.11 P,U				<0.11 P,U					0.54	1.1	0.06		11000	
	Sodium	ug/L	Tier 1												1820	2270	2270			544				680										
	Thallium	ug/L	Tier 1												<0.030 U	<0.030 U	<0.030 U			<0.030 U				<0.030 U					47	94	7.2		3.7	
	Total Hardness	ug/L	Tier 1												87900	66600	78300			14700				17600										
	Vanadium	ug/L	Tier 1												<0.41 U	<0.41 U	<0.41 U			<0.41 U				<0.41 U					110	220	12		2200	
	Zinc	ug/L	Tier 1																										16	31	16		16000	
	Zinc	ug/L	Tier 1																										22	44	22		16000	
	Zinc	ug/L	Tier 1																	9.2 J									23	46	23		16000	
	Zinc	ug/L	Tier 1																										24	48	24		16000	
	Zinc	ug/L	Tier 1																										24	49	24		16000	
	Zinc	ug/L	Tier 1																										25	49	25		16000	
	Zinc	ug/L	Tier 1																					5.3 J					27	54	27		16000	
	Zinc	ug/L	Tier 1																										35	70	35		16000	
	Zinc	ug/L	Tier 1																										35	71	36		16000	
	Zinc	ug/L	Tier 1																										39	78	40		16000	
	Zinc	ug/L	Tier 1																										43	86	43		16000	
	Zinc	ug/L	Tier 1																										45	89	45		16000	
	Zinc	ug/L	Tier 1																										45	90	45		16000	
	Zinc	ug/L	Tier 1																										45	90	45		16000	
	Zinc	ug/L	Tier 1																										55	110	55		16000	
	Zinc	ug/L	Tier 1																										56	112	56		16000	
	Zinc	ug/L	Tier 1																										56	113	57		16000	
	Zinc	ug/L	Tier 1																										62	123	62		16000	
	Zinc	ug/L	Tier 1													4.3 J													83	166	84		16000	
	Zinc	ug/L	Tier 1														13.6												95	190	96		16000	
	Zinc	ug/L	Tier 1												8.1 J														105	210	106		16000	
	Zinc	ug/L	Tier 1																										121	242	122		16000	
	Zinc	ug/L	Tier 1																										146	293	148		16000	
	Zinc	ug/L	Tier 1																										202	404	204		16000	
	Zinc	ug/L	Tier 1																										212	423	213		16000	
	Zinc	ug/L	Tier 1																										213	427	215		16000	
	Zinc	ug/L	Tier 1																										220	439	222		16000	
	Zinc	ug/L	Tier 1																										221	443	223		16000	
	Zinc	ug/L	Tier 1																										223	447	225		16000	
	Zinc	ug/L	Tier 1																										227	454	229		16000	
	Zinc	ug/L	Tier 1																										229	459	231		16000	
	Zinc	ug/L	Tier 1																										238	476	240		16000	
	Zinc	ug/L	Tier 1																										239	478	241		16000	
	Zinc	ug/L	Tier 1																										259	518	261		16000	
	Zinc	ug/L	Tier 1																										272	544	274		16000	
	Inorganics																																	
	Bicarbonate Alkalinity	mg/L	Tier 1												93.2	62.2	84.4			11.1				15.5										
	Carbonate Alkalinity	mg/L	Tier 1												<3.2 U	<3.2 U	<3.2 U			<3.2 U				<3.2 U										
	Chloride	mg/L	Tier 1												3.5 J	3.4 J	5.2			2.2 J				2.3 J										
	COD	mg/L	Tier 1												21.9 J	26.4 J	37.5 J			33 J				24.1 J										
	Cyanide	mg/L	Tier 1												<0.0060 P,U	<0.0060 P,U	<0.0060 P,U			<0.0060 P,U				<0.0060 P,U					0.022	0.044	0.0052		48	
	Fluoride	mg/L	Tier 1												0.44 J	0.3 J	0.39 J			<0.059 U				0.22 J										
	Gross Alpha	pCi/L	Tier 1												-0.230 +/- 0.525	0.107 +/- 0.685	0.362 +/- 0.804			-0.375 +/- 0.587				-0.028 +/- 0.504										
	Gross Beta	pCi/L	Tier 1												2.13 +/- 1.11	1.79 +/- 1.07	3.80 +/- 1.38			1.51 +/- 1.01			2.55 +/- 1.16												
	Nitrogen, Ammonia	mg/L	Tier 1												<0.50 U	<0.50 U	<0.50 U			<0.50 U				<0.50 U										
	Nitrogen, Nitrate	mg/L	Tier 1												0.17 J	0.15 J	0.17 J			<0.085 U				0.16 J										
	Nitrogen, Nitrite	mg/L	Tier 1												<0.036 U	<0.036 U	<0.036 U			<0.036 U				<0.036 U										
	Sulfate	mg/L	Tier 1												7.9	12.6	10			4.3				6.0										
	Sulfide	mg/L	Tier 1												<2.3 U	<2.3 U	<2.3 U			<2.3 U				<2.3 U										
	TOC as NPOC	mg/L	Tier 1												5.9	6.3	6.2			9.8				7.2										
	TOC as NPOC - Dissolved	mg/L	Tier 1												5.7	7.4	5.3			8.0				11.5										
	Total Alkalinity	mg/L	Tier 1												93.2	62.2	84.4			11.1				15.5										
	Total Dissolved Solids	mg/L	Tier 1												104	94	104			34				32										
	Total Suspended Solids	mg/L	Tier 1												8.8	2.6	25			3.4				3.4										
7/1/2008	**Field Measurement**																																	
	Conductivity	mmhos	Tier 1												147	298		159			28				36									
	Conductivity	mmhos	Tier 1												147	298		159			28				36									
	Dissolved Oxygen	mg/L	Tier 1												3.73	2.4		2.13			5.05				6.89									
	Flow	cfs	Tier 1													0.0012		<0.1																
	ORP	mV	Tier 1												-32.1	65.2		2.3			213.4				209.2									
	pH	S.U.	Tier 1												7.04	6.28		6.86			6.24				6.47									
	Specific Conductance	umhos/cm @25 degrees C	Tier 1												162	362		179			31				38									
	Temperature	Celcius	Tier 1						18.9					18.6	20.22	15.72		19.03			19.74				21.15									
	Turbidity	NTU	Tier 1												12.8	4.8		54.8			2.9				2.7									
	Velocity	ft/s	Tier 1						0.64					0																				
	Water Depth	ft	Tier 1						1.35					1.11																				
	Metals																																	
	Aluminum	ug/L	Tier 1												10.5	1980		93			20.5				12.2									
	Antimony	ug/L	Tier 1												0.055 J	0.14		<0.050 U			<0.050 U				<0.050 U				1100	2300	240		130	
	Arsenic	ug/L	Tier 1												2.4	5.3		1.5			0.24				0.48				340	680	150		280	
	Barium	ug/L	Tier 1																		9.7								198	397	69		160000	
	Barium	ug/L	Tier 1																						15				217	435	76		160000	
	Barium	ug/L	Tier 1																										256	512	90		160000	
	Barium	ug/L	Tier 1																										357	715	125		160000	
	Barium	ug/L	Tier 1																										361	722	127		160000	
	Barium	ug/L	Tier 1																										362	724	127		160000	
	Barium	ug/L	Tier 1																										391	781	137		160000	
	Barium	ug/L	Tier 1																										413	826	145		160000	
	Barium	ug/L	Tier 1																										428	856	150		160000	
	Barium	ug/L	Tier 1																										488	976	171		160000	
	Barium	ug/L	Tier 1																										593	1186	208		160000	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Barium	ug/L	Tier 1																										595	1191	209		160000	
	Barium	ug/L	Tier 1																										618	1237	217		160000	
	Barium	ug/L	Tier 1																										686	1372	240		160000	
	Barium	ug/L	Tier 1																										692	1385	243		160000	
	Barium	ug/L	Tier 1																										699	1398	245		160000	
	Barium	ug/L	Tier 1																										708	1416	248		160000	
	Barium	ug/L	Tier 1																										728	1457	255		160000	
	Barium	ug/L	Tier 1													45													1113	2226	390		160000	
	Barium	ug/L	Tier 1												8.2														1188	2376	416		160000	
	Barium	ug/L	Tier 1															26.6											1200	2400	421		160000	
	Barium	ug/L	Tier 1																										1316	2631	461		160000	
	Barium	ug/L	Tier 1																										2762	5525	968		160000	
	Barium	ug/L	Tier 1																										2818	5636	988		160000	
	Barium	ug/L	Tier 1																										2846	5692	997		160000	
	Barium	ug/L	Tier 1																										2902	5803	1017		160000	
	Barium	ug/L	Tier 1																										2916	5831	1022		160000	
	Barium	ug/L	Tier 1																										2930	5859	1027		160000	
	Barium	ug/L	Tier 1																										2944	5887	1032		160000	
	Barium	ug/L	Tier 1																										3070	6139	1076		160000	
	Barium	ug/L	Tier 1																										3098	6195	1086		160000	
	Barium	ug/L	Tier 1																										3252	6504	1140		160000	
	Barium	ug/L	Tier 1																										3421	6841	1199		160000	
	Barium	ug/L	Tier 1																										3562	7124	1248		160000	
	Beryllium	ug/L	Tier 1																		<0.10 P,U								0.27	0.54	0.03		1200	
	Beryllium	ug/L	Tier 1																						<0.10 P,U				0.34	0.67	0.04		1200	
	Beryllium	ug/L	Tier 1																										0.50	0.99	0.06		1200	
	Beryllium	ug/L	Tier 1																										1.1	2.2	0.12		1200	
	Beryllium	ug/L	Tier 1																										1.1	2.2	0.12		1200	
	Beryllium	ug/L	Tier 1																										1.1	2.3	0.13		1200	
	Beryllium	ug/L	Tier 1																										1.4	2.7	0.15		1200	
	Beryllium	ug/L	Tier 1																										1.5	3.1	0.17		1200	
	Beryllium	ug/L	Tier 1																										1.7	3.4	0.19		1200	
	Beryllium	ug/L	Tier 1																										2.3	4.6	0.26		1200	
	Beryllium	ug/L	Tier 1																										3.7	7.3	0.41		1200	
	Beryllium	ug/L	Tier 1																										3.7	7.4	0.41		1200	
	Beryllium	ug/L	Tier 1																										4.0	8.1	0.45		1200	
	Beryllium	ug/L	Tier 1																										5.2	10	0.58		1200	
	Beryllium	ug/L	Tier 1																										5.3	11	0.59		1200	
	Beryllium	ug/L	Tier 1																										5.4	11	0.60		1200	
	Beryllium	ug/L	Tier 1																										5.6	11	0.62		1200	
	Beryllium	ug/L	Tier 1																										6.0	12	0.66		1200	
	Beryllium	ug/L	Tier 1													0.18 J													16	33	1.8		1200	
	Beryllium	ug/L	Tier 1												<0.10 U														19	38	2.1		1200	
	Beryllium	ug/L	Tier 1															<0.10 U											20	39	2.2		1200	
	Beryllium	ug/L	Tier 1																										24	49	2.7		1200	
	Beryllium	ug/L	Tier 1																										142	284	16		1200	
	Beryllium	ug/L	Tier 1																										149	298	17		1200	
	Beryllium	ug/L	Tier 1																										153	305	17		1200	
	Beryllium	ug/L	Tier 1																										160	320	18		1200	
	Beryllium	ug/L	Tier 1																										162	323	18		1200	
	Beryllium	ug/L	Tier 1																										163	327	18		1200	
	Beryllium	ug/L	Tier 1																										165	331	18		1200	
	Beryllium	ug/L	Tier 1																										183	365	20		1200	
	Beryllium	ug/L	Tier 1																										187	373	21		1200	
	Beryllium	ug/L	Tier 1																										210	419	23		1200	
	Beryllium	ug/L	Tier 1																										236	473	26		1200	
	Beryllium	ug/L	Tier 1																										260	521	29		1200	
	Boron	ug/L	Tier 1												56.6	36.6		53.7			9.1				11.9				16000	31000	1900		160000	
	Cadmium	ug/L	Tier 1																		<0.050 U								0.65	1.3	0.62		130	
	Cadmium	ug/L	Tier 1																						<0.050 U				0.72	1.4	0.66		130	
	Cadmium	ug/L	Tier 1																										0.85	1.7	0.74		130	
	Cadmium	ug/L	Tier 1																										1.2	2.4	0.94		130	
	Cadmium	ug/L	Tier 1																										1.2	2.4	0.94		130	
	Cadmium	ug/L	Tier 1																										1.2	2.4	0.94		130	
	Cadmium	ug/L	Tier 1																										1.3	2.6	1.00		130	
	Cadmium	ug/L	Tier 1																										1.4	2.8	1.0		130	
	Cadmium	ug/L	Tier 1																										1.4	2.9	1.1		130	
	Cadmium	ug/L	Tier 1																										1.6	3.3	1.2		130	
	Cadmium	ug/L	Tier 1																										2.0	4.0	1.3		130	
	Cadmium	ug/L	Tier 1																										2.0	4.0	1.3		130	
	Cadmium	ug/L	Tier 1																										2.1	4.2	1.4		130	
	Cadmium	ug/L	Tier 1																										2.3	4.6	1.5		130	
	Cadmium	ug/L	Tier 1																										2.3	4.7	1.5		130	
	Cadmium	ug/L	Tier 1																										2.4	4.7	1.5		130	
	Cadmium	ug/L	Tier 1																										2.4	4.8	1.5		130	
	Cadmium	ug/L	Tier 1																										2.5	4.9	1.5		130	
	Cadmium	ug/L	Tier 1													0.15													3.8	7.6	2.1		130	
	Cadmium	ug/L	Tier 1												<0.050 U														4.1	8.1	2.2		130	
	Cadmium	ug/L	Tier 1															<0.050 U											4.1	8.2	2.2		130	
	Cadmium	ug/L	Tier 1																										4.5	9.0	2.3		130	
	Cadmium	ug/L	Tier 1																										9.6	19	3.9		130	
	Cadmium	ug/L	Tier 1																										9.8	20	3.9		130	
	Cadmium	ug/L	Tier 1																										9.9	20	4.0		130	
	Cadmium	ug/L	Tier 1																										10.1	20	4.0		130	
	Cadmium	ug/L	Tier 1																										10.1	20	4.0		130	
	Cadmium	ug/L	Tier 1																										10.2	20	4.0		130	
	Cadmium	ug/L	Tier 1																										10.2	20	4.1		130	
	Cadmium	ug/L	Tier 1																										10.7	21	4.2		130	
	Cadmium	ug/L	Tier 1																										10.8	22	4.2		130	
	Cadmium	ug/L	Tier 1																										11.3	23	4.3		130	
	Cadmium	ug/L	Tier 1																										11.9	24	4.5		130	
	Cadmium	ug/L	Tier 1																										12.4	25	4.6		130	
	Calcium	ug/L	Tier 1												21500	20500		22100			5320				5670									
	Chromium	ug/L	Tier 1																		0.49 J								138	276	18		9400	
	Chromium	ug/L	Tier 1																						0.41 J				148	296	19		9400	
	Chromium	ug/L	Tier 1																										168	336	22		9400	
	Chromium	ug/L	Tier 1																										217	434	28		9400	
	Chromium	ug/L	Tier 1																										219	438	28		9400	
	Chromium	ug/L	Tier 1																										219	439	29		9400	
	Chromium	ug/L	Tier 1																										233	465	30		9400	
	Chromium	ug/L	Tier 1																										243	486	32		9400	
	Chromium	ug/L	Tier 1																										250	499	32		9400	
	Chromium	ug/L	Tier 1																										276	552	36		9400	
	Chromium	ug/L	Tier 1																										321	642	42		9400	
	Chromium	ug/L	Tier 1																										322	644	42		9400	
	Chromium	ug/L	Tier 1																										331	663	43		9400	
	Chromium	ug/L	Tier 1																										359	718	47		9400	
	Chromium	ug/L	Tier 1																										362	723	47		9400	
	Chromium	ug/L	Tier 1																										364	728	47		9400	
	Chromium	ug/L	Tier 1																										368	736	48		9400	
	Chromium	ug/L	Tier 1																										376	752	49		9400	
	Chromium	ug/L	Tier 1													5.2													521	1042	68		9400	
	Chromium	ug/L	Tier 1												<0.25 U														548	1096	71		9400	
	Chromium	ug/L	Tier 1															0.31 J											552	1105	72		9400	
	Chromium	ug/L	Tier 1																										593	1186	77		9400	
	Chromium	ug/L	Tier 1																										1050	2100	137		9400	
	Chromium	ug/L	Tier 1																										1067	2133	139		9400	
	Chromium	ug/L	Tier 1																										1075	2149	140		9400	
	Chromium	ug/L	Tier 1																										1091	2182	142		9400	
	Chromium	ug/L	Tier 1																										1095	2190	142		9400	
	Chromium	ug/L	Tier 1																										1099	2198	143		9400	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Chromium	ug/L	Tier 1																										1103	2206	143		9400	
	Chromium	ug/L	Tier 1																										1139	2278	148		9400	
	Chromium	ug/L	Tier 1																										1147	2294	149		9400	
	Chromium	ug/L	Tier 1																										1191	2382	155		9400	
	Chromium	ug/L	Tier 1																										1238	2477	161		9400	
	Chromium	ug/L	Tier 1																										1277	2555	166		9400	
	Cobalt	ug/L	Tier 1												0.23	8.6		0.42			<0.050 U				0.075 J				370	740	100			
	Copper	ug/L	Tier 1																		<0.10 U								2.6	5.3	2.0		38000	
	Copper	ug/L	Tier 1																						0.31				2.9	5.7	2.2		38000	
	Copper	ug/L	Tier 1																										3.3	6.6	2.5		38000	
	Copper	ug/L	Tier 1																										4.4	8.9	3.3		38000	
	Copper	ug/L	Tier 1																										4.5	8.9	3.3		38000	
	Copper	ug/L	Tier 1																										4.5	9.0	3.3		38000	
	Copper	ug/L	Tier 1																										4.8	9.6	3.5		38000	
	Copper	ug/L	Tier 1																										5.0	10	3.7		38000	
	Copper	ug/L	Tier 1																										5.2	10	3.8		38000	
	Copper	ug/L	Tier 1																										5.8	12	4.2		38000	
	Copper	ug/L	Tier 1																										6.9	14	4.9		38000	
	Copper	ug/L	Tier 1																										7.0	14	4.9		38000	
	Copper	ug/L	Tier 1																										7.2	14	5.1		38000	
	Copper	ug/L	Tier 1																										7.9	16	5.5		38000	
	Copper	ug/L	Tier 1																										8.0	16	5.6		38000	
	Copper	ug/L	Tier 1																										8.0	16	5.6		38000	
	Copper	ug/L	Tier 1																										8.1	16	5.7		38000	
	Copper	ug/L	Tier 1																										8.3	17	5.8		38000	
	Copper	ug/L	Tier 1													**11.6**													12	24	8.2		38000	
	Copper	ug/L	Tier 1												0.13 J														13	26	8.6		38000	
	Copper	ug/L	Tier 1															0.35											13	26	8.7		38000	
	Copper	ug/L	Tier 1																										14	28	9.3		38000	
	Copper	ug/L	Tier 1																										27	54	17		38000	
	Copper	ug/L	Tier 1																										28	55	17		38000	
	Copper	ug/L	Tier 1																										28	56	17		38000	
	Copper	ug/L	Tier 1																										28	57	18		38000	
	Copper	ug/L	Tier 1																										28	57	18		38000	
	Copper	ug/L	Tier 1																										29	57	18		38000	
	Copper	ug/L	Tier 1																										29	57	18		38000	
	Copper	ug/L	Tier 1																										30	60	18		38000	
	Copper	ug/L	Tier 1																										30	60	19		38000	
	Copper	ug/L	Tier 1																										31	63	19		38000	
	Copper	ug/L	Tier 1																										33	66	20		38000	
	Copper	ug/L	Tier 1																										34	68	21		38000	
	Iron	ug/L	Tier 1												3330	14900		8490			2610				1250									
	Lead	ug/L	Tier 1																		0.071 J								13	27	1.5		190	
	Lead	ug/L	Tier 1																						0.48				15	29	1.7		190	
	Lead	ug/L	Tier 1																										17	35	2.0		190	
	Lead	ug/L	Tier 1																										25	50	2.8		190	
	Lead	ug/L	Tier 1																										25	50	2.8		190	
	Lead	ug/L	Tier 1																										25	51	2.8		190	
	Lead	ug/L	Tier 1																										27	55	3.1		190	
	Lead	ug/L	Tier 1																										29	58	3.3		190	
	Lead	ug/L	Tier 1																										30	60	3.4		190	
	Lead	ug/L	Tier 1																										35	69	3.9		190	
	Lead	ug/L	Tier 1																										42	85	4.8		190	
	Lead	ug/L	Tier 1																										43	85	4.8		190	
	Lead	ug/L	Tier 1																										44	89	5.0		190	
	Lead	ug/L	Tier 1																										49	99	5.5		190	
	Lead	ug/L	Tier 1																										50	100	5.6		190	
	Lead	ug/L	Tier 1																										50	101	5.7		190	
	Lead	ug/L	Tier 1																										51	102	5.7		190	
	Lead	ug/L	Tier 1																										53	105	5.9		190	
	Lead	ug/L	Tier 1													5.6													81	163	9.1		190	
	Lead	ug/L	Tier 1												0.17														87	174	9.8		190	
	Lead	ug/L	Tier 1															0.16											88	176	9.9		190	
	Lead	ug/L	Tier 1																										97	193	11		190	
	Lead	ug/L	Tier 1																										205	409	23		190	
	Lead	ug/L	Tier 1																										209	417	23		190	
	Lead	ug/L	Tier 1																										211	421	24		190	
	Lead	ug/L	Tier 1																										215	430	24		190	
	Lead	ug/L	Tier 1																										216	432	24		190	
	Lead	ug/L	Tier 1																										217	434	24		190	
	Lead	ug/L	Tier 1																										218	436	24		190	
	Lead	ug/L	Tier 1																										227	454	26		190	
	Lead	ug/L	Tier 1																										229	458	26		190	
	Lead	ug/L	Tier 1																										241	481	27		190	
	Lead	ug/L	Tier 1																										253	506	28		190	
	Lead	ug/L	Tier 1																										263	526	30		190	
	Lithium	ug/L	Tier 1												2.4	1.8		1.4			0.18				0.29				870	1700	96		58000	
	Magnesium	ug/L	Tier 1												10100	9360		9970			1060				1250									
	Manganese	ug/L	Tier 1																		18								910	1819	422		59000	
	Manganese	ug/L	Tier 1																						154				981	1963	455		59000	
	Manganese	ug/L	Tier 1																										1123	2246	521		59000	
	Manganese	ug/L	Tier 1																										1480	2959	686		59000	
	Manganese	ug/L	Tier 1																										1492	2985	692		59000	
	Manganese	ug/L	Tier 1																										1497	2993	694		59000	
	Manganese	ug/L	Tier 1																										1593	3186	738		59000	
	Manganese	ug/L	Tier 1																										1668	3336	773		59000	
	Manganese	ug/L	Tier 1																										1718	3435	796		59000	
	Manganese	ug/L	Tier 1																										1915	3829	887		59000	
	Manganese	ug/L	Tier 1																										2249	4497	1042		59000	
	Manganese	ug/L	Tier 1																										2257	4513	1046		59000	
	Manganese	ug/L	Tier 1																										2328	4656	1079		59000	
	Manganese	ug/L	Tier 1																										2537	5074	1176		59000	
	Manganese	ug/L	Tier 1																										2557	5113	1185		59000	
	Manganese	ug/L	Tier 1																										2576	5152	1194		59000	
	Manganese	ug/L	Tier 1																										2604	5207	1207		59000	
	Manganese	ug/L	Tier 1																										2666	5332	1236		59000	
	Manganese	ug/L	Tier 1													**3640**													3784	7568	1754		59000	
	Manganese	ug/L	Tier 1												370														3995	7989	1851		59000	
	Manganese	ug/L	Tier 1															**2190**											4028	8055	1867		59000	
	Manganese	ug/L	Tier 1																										4346	8691	2014		59000	
	Manganese	ug/L	Tier 1																										8022	16044	3718		59000	
	Manganese	ug/L	Tier 1																										8156	16311	3780		59000	
	Manganese	ug/L	Tier 1																										8222	16444	3811		59000	
	Manganese	ug/L	Tier 1																										8355	16710	3872		59000	
	Manganese	ug/L	Tier 1																										8388	16776	3888		59000	
	Manganese	ug/L	Tier 1																										8422	16842	3903		59000	
	Manganese	ug/L	Tier 1																										8455	16909	3919		59000	
	Manganese	ug/L	Tier 1																										8752	17504	4057		59000	
	Manganese	ug/L	Tier 1																										8818	17636	4087		59000	
	Manganese	ug/L	Tier 1																										9180	18359	4255		59000	
	Manganese	ug/L	Tier 1																										9572	19144	4436		59000	
	Manganese	ug/L	Tier 1																										9897	19794	4587		59000	
	Mercury - low level	ng/L	Tier 1												0.9	**10.3**		**2.09**			**1.68**				**1.39**				1400	2800	770		1.8	1.3
	Molybdenum	ug/L	Tier 1												0.5	1.4		0.43			<0.050 U				<0.050 U				29000	58000	3200		10000	
	Nickel	ug/L	Tier 1																										133	265	15		210000	
	Nickel	ug/L	Tier 1																										173	346	19		210000	
	Nickel	ug/L	Tier 1																										174	349	19		210000	
	Nickel	ug/L	Tier 1																										175	350	19		210000	
	Nickel	ug/L	Tier 1																										186	371	21		210000	
	Nickel	ug/L	Tier 1																										194	388	22		210000	
	Nickel	ug/L	Tier 1																										200	399	22		210000	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Nickel	ug/L	Tier 1																										222	443	25		210000	
	Nickel	ug/L	Tier 1																										259	517	29		210000	
	Nickel	ug/L	Tier 1																										260	519	29		210000	
	Nickel	ug/L	Tier 1																										268	535	30		210000	
	Nickel	ug/L	Tier 1																										291	581	32		210000	
	Nickel	ug/L	Tier 1																										293	586	33		210000	
	Nickel	ug/L	Tier 1																										298	596	33		210000	
	Nickel	ug/L	Tier 1													16.5													427	854	47		210000	
	Nickel	ug/L	Tier 1												0.34														450	900	50		210000	
	Nickel	ug/L	Tier 1															0.32											454	907	50		210000	
	Nickel	ug/L	Tier 1																										488	976	54		210000	
	Nickel	ug/L	Tier 1																										881	1761	98		210000	
	Nickel	ug/L	Tier 1																										895	1790	99		210000	
	Nickel	ug/L	Tier 1																										902	1804	100		210000	
	Nickel	ug/L	Tier 1																										916	1832	102		210000	
	Nickel	ug/L	Tier 1																										919	1839	102		210000	
	Nickel	ug/L	Tier 1																										923	1846	103		210000	
	Nickel	ug/L	Tier 1																										926	1853	103		210000	
	Nickel	ug/L	Tier 1																										958	1915	106		210000	
	Nickel	ug/L	Tier 1																										965	1929	107		210000	
	Nickel	ug/L	Tier 1																										1003	2006	111		210000	
	Nickel	ug/L	Tier 1																										1044	2088	116		210000	
	Nickel	ug/L	Tier 1																										1078	2156	120		210000	
	Potassium	ug/L	Tier 1												2760	2860		2980			360				665									
	Selenium	ug/L	Tier 1												<0.25 U	0.42 J		<0.25 U			<0.25 U				<0.25 U				62	120	5		2700	
	Silver	ug/L	Tier 1												<0.10 P,U	<0.10 P,U		<0.10 P,U			<0.10 P,U				<0.10 P,U				0.54	1.1	0.06		11000	
	Sodium	ug/L	Tier 1												2080	15400		2430			461				768									
	Thallium	ug/L	Tier 1												<0.050 U	<0.050 U		<0.050 U			<0.050 U				<0.050 U				47	94	7.2		3.7	
	Total Hardness	ug/L	Tier 1												95400	89700		96300			17700				19300									
	Vanadium	ug/L	Tier 1												0.12	5.2		0.52			0.25				0.21				110	220	12		2200	
	Zinc	ug/L	Tier 1																		<2.5 U								27	54	27		16000	
	Zinc	ug/L	Tier 1																						<2.5 U				29	58	29		16000	
	Zinc	ug/L	Tier 1																										33	66	33		16000	
	Zinc	ug/L	Tier 1																										43	86	44		16000	
	Zinc	ug/L	Tier 1																										44	87	44		16000	
	Zinc	ug/L	Tier 1																										44	87	44		16000	
	Zinc	ug/L	Tier 1																										46	93	47		16000	
	Zinc	ug/L	Tier 1																										48	97	49		16000	
	Zinc	ug/L	Tier 1																										50	100	50		16000	
	Zinc	ug/L	Tier 1																										55	111	56		16000	
	Zinc	ug/L	Tier 1																										65	129	65		16000	
	Zinc	ug/L	Tier 1																										65	130	65		16000	
	Zinc	ug/L	Tier 1																										67	134	67		16000	
	Zinc	ug/L	Tier 1																										73	145	73		16000	
	Zinc	ug/L	Tier 1																										73	146	74		16000	
	Zinc	ug/L	Tier 1																										74	148	74		16000	
	Zinc	ug/L	Tier 1																										75	149	75		16000	
	Zinc	ug/L	Tier 1																										76	152	77		16000	
	Zinc	ug/L	Tier 1													253													107	214	108		16000	
	Zinc	ug/L	Tier 1												<2.5 U														113	225	114		16000	
	Zinc	ug/L	Tier 1															14.6											113	227	114		16000	
	Zinc	ug/L	Tier 1																										122	244	123		16000	
	Zinc	ug/L	Tier 1																										221	441	222		16000	
	Zinc	ug/L	Tier 1																										224	448	226		16000	
	Zinc	ug/L	Tier 1																										226	452	228		16000	
	Zinc	ug/L	Tier 1																										229	459	231		16000	
	Zinc	ug/L	Tier 1																										230	461	232		16000	
	Zinc	ug/L	Tier 1																										231	462	233		16000	
	Zinc	ug/L	Tier 1																										232	464	234		16000	
	Zinc	ug/L	Tier 1																										240	480	242		16000	
	Zinc	ug/L	Tier 1																										242	483	244		16000	
	Zinc	ug/L	Tier 1																										251	502	253		16000	
	Zinc	ug/L	Tier 1																										262	523	264		16000	
	Zinc	ug/L	Tier 1																										270	540	272		16000	
	Inorganics																																	
	Bicarbonate Alkalinity	mg/L	Tier 1												99	72.6		103			17.6				17.6									
	Carbonate Alkalinity	mg/L	Tier 1												<3.2 U	<3.2 U		<3.2 U			<3.2 U				<3.2 U									
	Chloride	mg/L	Tier 1												2.4 J	7.3		3.8 J			2.2 J				2.5 J									
	COD	mg/L	Tier 1												28.6 J	46.4 J		39.8 J			33 J				30.1 J									
	Cyanide	mg/L	Tier 1												<0.0060 P,U	<0.0060 P,U		<0.0060 P,U			<0.0060 P,U				<0.0060 P,U				0.022	0.044	0.0052		48	
	Fluoride	mg/L	Tier 1												0.4 J	0.3 J		0.34 J			0.19 J				0.2 J									
	Gross Alpha	pCi/L	Tier 1												0.161 +/- 0.922	1.02 +/- 1.03		1.02 +/- 1.16			0.267 +/- 0.620				0.648 +/- 0.780									
	Gross Beta	pCi/L	Tier 1												2.06 +/- 1.32	1.83 +/- 1.02		2.19 +/- 1.06			1.59 +/- 0.958				1.09 +/- 0.852									
	Nitrogen, Ammonia	mg/L	Tier 1												<0.50 U	<0.50 U		0.5 J			<0.50 U				<0.50 U									
	Nitrogen, Nitrate	mg/L	Tier 1												<0.085 U	<0.085 U		0.2 J			<0.085 U				<0.085 U									
	Nitrogen, Nitrite	mg/L	Tier 1												<0.036 U	<0.036 U		<0.036 U			<0.036 U				<0.036 U									
	Sulfate	mg/L	Tier 1												3.5 J	6.2		4.4			2.7 J				4.8									
	Sulfide	mg/L	Tier 1												<2.3 U	<2.3 U		<2.3 U			<2.3 U				<2.3 U									
	TOC as NPOC	mg/L	Tier 1												6.9	13.6		9.4			12.1				9.1									
	TOC as NPOC - Dissolved	mg/L	Tier 1												16.2	13.3		8.1			11.2				9.3									
	Total Alkalinity	mg/L	Tier 1												99	72.6		103			17.6				17.6									
	Total Dissolved Solids	mg/L	Tier 1												126	132		112			40				42									
	Total Suspended Solids	mg/L	Tier 1												5.4	11.8		13.2			2.2				2.4									
10/3/2008	**Field Measurement**																																	
	Conductivity	mmhos	Tier 1												195	d	228		41							45								
	Conductivity	mmhos	Tier 1												195	d	228		41							45								
	Depth to Water	ft	Tier 1																															
	Dissolved Oxygen	mg/L	Tier 1												3.85	d	3.5		5.05							10.6								
	Flow	cfs	Tier 1													Dry	<0.1																	
	GW Elevation	ft msl	Tier 1																															
	ORP	mV	Tier 1												12.3	d	-6.6		191							192								
	pH	S.U.	Tier 1												7.1	d	6.87		6.82							7.38								
	Specific Conductance	degrees C	Tier 1												275	d	312		58							63								
	Temperature	Celcius	Tier 1	9.8											9.7	d	10.9		9.2							10.3								
	Turbidity	NTU	Tier 1												33.8		89.8		5.5							2.8								
	Velocity	ft/s	Tier 1	0																														
	Water Depth	ft	Tier 1	0.7												d	0.72		6							6								
	Metals																																	
	Aluminum	ug/L	Tier 1												23.1 J		313		20.4 J							19.0 J								
	Antimony	ug/L	Tier 1												<0.071 U		<0.071 U		<0.071 U							<0.071 U			1100	2300	240		130	
	Arsenic	ug/L	Tier 1												1.2		2.6		0.23 J							0.40 J			340	680	150		280	
	Barium	ug/L	Tier 1																9.7										239	477.98	83.7614		160000	
	Barium	ug/L	Tier 1																							7.5			247.44	494.85	86.7181		160000	
	Barium	ug/L	Tier 1																										320.4	640.78	112.29		160000	
	Barium	ug/L	Tier 1																										391.89	783.75	137.344		160000	
	Barium	ug/L	Tier 1																										400.58	801.12	140.387		160000	
	Barium	ug/L	Tier 1																										552.29	1104.5	193.556		160000	
	Barium	ug/L	Tier 1																										558.61	1117.2	195.773		160000	
	Barium	ug/L	Tier 1																										586.51	1173	205.549		160000	
	Barium	ug/L	Tier 1																										601.75	1203.4	210.892		160000	
	Barium	ug/L	Tier 1																										611.93	1223.8	214.459		160000	
	Barium	ug/L	Tier 1																										627.22	1254.4	219.816		160000	
	Barium	ug/L	Tier 1																										730.95	1461.8	256.17		160000	
	Barium	ug/L	Tier 1																										737.38	1474.7	258.425		160000	
	Barium	ug/L	Tier 1																										743.82	1487.6	260.68		160000	
	Barium	ug/L	Tier 1																										1213.4	2426.6	425.235		160000	
	Barium	ug/L	Tier 1												9.4														1218.7	2437.2	427.094		160000	
	Barium	ug/L	Tier 1														40.3												1355.7	2711.2	475.106		160000	
	Barium	ug/L	Tier 1																										2443.6	4886.9	856.38		160000	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Barium	ug/L	Tier 1																										2526.5	5052.8	885.459		160000	
	Barium	ug/L	Tier 1																										2581.9	5163.7	904.877		160000	
	Barium	ug/L	Tier 1																										2776.4	5552.6	973.031		160000	
	Barium	ug/L	Tier 1																										2846.1	5691.9	997.441		160000	
	Barium	ug/L	Tier 1																										2860	5719.7	1002.33		160000	
	Barium	ug/L	Tier 1																										2874	5747.6	1007.21		160000	
	Barium	ug/L	Tier 1																										2929.8	5859.3	1026.78		160000	
	Barium	ug/L	Tier 1																										2971.7	5943.1	1041.47		160000	
	Barium	ug/L	Tier 1																										2999.7	5999	1051.27		160000	
	Barium	ug/L	Tier 1																										3013.6	6027	1056.17		160000	
	Barium	ug/L	Tier 1																										3209.8	6419.4	1124.93		160000	
	Barium	ug/L	Tier 1																										3322.3	6644.2	1164.33		160000	
	Barium	ug/L	Tier 1																										3392.7	6785	1189		160000	
	Barium	ug/L	Tier 1																										3406.7	6813.2	1193.94		160000	
	Beryllium	ug/L	Tier 1																<0.41 P,U										0.4216	0.8435	0.04686		1200	
	Beryllium	ug/L	Tier 1																							<0.41 P,U			0.4578	0.916	0.05089		1200	
	Beryllium	ug/L	Tier 1																										0.8465	1.6936	0.09409		1200	
	Beryllium	ug/L	Tier 1																										1.3667	2.7343	0.1519		1200	
	Beryllium	ug/L	Tier 1																										1.4398	2.8806	0.16003		1200	
	Beryllium	ug/L	Tier 1																										3.0904	6.183	0.34349		1200	
	Beryllium	ug/L	Tier 1																										3.1753	6.3529	0.35293		1200	
	Beryllium	ug/L	Tier 1																										3.5654	7.1334	0.39629		1200	
	Beryllium	ug/L	Tier 1																										3.7898	7.5824	0.42123		1200	
	Beryllium	ug/L	Tier 1																										3.9441	7.8909	0.43837		1200	
	Beryllium	ug/L	Tier 1																										4.1824	8.3678	0.46486		1200	
	Beryllium	ug/L	Tier 1																										6.0188	12.042	0.66897		1200	
	Beryllium	ug/L	Tier 1																										6.1456	12.295	0.68306		1200	
	Beryllium	ug/L	Tier 1																										6.2739	12.552	0.69733		1200	
	Beryllium	ug/L	Tier 1																										20.09	40.194	2.23294		1200	
	Beryllium	ug/L	Tier 1												<0.41 U														20.299	40.613	2.25622		1200	
	Beryllium	ug/L	Tier 1														<0.41 U												26.153	52.324	2.90682		1200	
	Beryllium	ug/L	Tier 1																										106.19	212.45	11.8024		1200	
	Beryllium	ug/L	Tier 1																										114.96	230.01	12.7779		1200	
	Beryllium	ug/L	Tier 1																										121.05	242.19	13.4545		1200	
	Beryllium	ug/L	Tier 1																										143.87	287.84	15.9908		1200	
	Beryllium	ug/L	Tier 1																										152.6	305.31	16.9614		1200	
	Beryllium	ug/L	Tier 1																										154.39	308.88	17.1597		1200	
	Beryllium	ug/L	Tier 1																										156.18	312.48	17.3594		1200	
	Beryllium	ug/L	Tier 1																										163.5	327.11	18.1721		1200	
	Beryllium	ug/L	Tier 1																										169.11	338.35	18.7965		1200	
	Beryllium	ug/L	Tier 1																										172.92	345.97	19.2198		1200	
	Beryllium	ug/L	Tier 1																										174.85	349.82	19.4336		1200	
	Beryllium	ug/L	Tier 1																										203.14	406.43	22.5788		1200	
	Beryllium	ug/L	Tier 1																										220.48	441.11	24.5054		1200	
	Beryllium	ug/L	Tier 1																										231.75	463.66	25.7582		1200	
	Beryllium	ug/L	Tier 1																										234.04	468.25	26.0133		1200	
	Boron	ug/L	Tier 1												55.9		53.4		9.2							13.4			16000	31000	1900		160000	
	Cadmium	ug/L	Tier 1																<0.087 U										0.7881	1.5763	0.70683		130	
	Cadmium	ug/L	Tier 1																							<0.087 U			0.8166	1.6332	0.72416		130	
	Cadmium	ug/L	Tier 1																										1.0634	2.1268	0.86732		130	
	Cadmium	ug/L	Tier 1																										1.3064	2.6127	0.99817		130	
	Cadmium	ug/L	Tier 1																										1.3359	2.6719	1.01355		130	
	Cadmium	ug/L	Tier 1																										1.8545	3.709	1.2679		130	
	Cadmium	ug/L	Tier 1																										1.8762	3.7523	1.27801		130	
	Cadmium	ug/L	Tier 1																										1.9719	3.9437	1.32214		130	
	Cadmium	ug/L	Tier 1																										2.0242	4.0484	1.346		130	
	Cadmium	ug/L	Tier 1																										2.0592	4.1183	1.36182		130	
	Cadmium	ug/L	Tier 1																										2.1117	4.2233	1.38543		130	
	Cadmium	ug/L	Tier 1																										2.4687	4.9373	1.54129		130	
	Cadmium	ug/L	Tier 1																										2.4908	4.9817	1.55072		130	
	Cadmium	ug/L	Tier 1																										2.513	5.0261	1.56014		130	
	Cadmium	ug/L	Tier 1																										4.1397	8.2795	2.19313		130	
	Cadmium	ug/L	Tier 1												<0.087 U														4.1582	8.3164	2.19979		130	
	Cadmium	ug/L	Tier 1														<0.087 U												4.6352	9.2705	2.36894		130	
	Cadmium	ug/L	Tier 1																										8.4485	16.897	3.56708		130	
	Cadmium	ug/L	Tier 1																										8.7407	17.481	3.65072		130	
	Cadmium	ug/L	Tier 1																										8.936	17.872	3.7061		130	
	Cadmium	ug/L	Tier 1																										9.6217	19.243	3.89765		130	
	Cadmium	ug/L	Tier 1																										9.8675	19.735	3.96523		130	
	Cadmium	ug/L	Tier 1																										9.9167	19.833	3.9787		130	
	Cadmium	ug/L	Tier 1																										9.9659	19.932	3.99215		130	
	Cadmium	ug/L	Tier 1																										10.163	20.326	4.04579		130	
	Cadmium	ug/L	Tier 1																										10.311	20.622	4.08586		130	
	Cadmium	ug/L	Tier 1																										10.41	20.82	4.11249		130	
	Cadmium	ug/L	Tier 1																										10.459	20.918	4.12578		130	
	Cadmium	ug/L	Tier 1																										11.153	22.306	4.31029		130	
	Cadmium	ug/L	Tier 1																										11.55	23.101	4.41445		130	
	Cadmium	ug/L	Tier 1																										11.8	23.599	4.4791		130	
	Cadmium	ug/L	Tier 1																										11.849	23.699	4.49199		130	
	Calcium	ug/L	Tier 1												22600		25500		6360							6370								
	Chromium	ug/L	Tier 1																0.39 J										159.32	318.65	20.7248		9400	
	Chromium	ug/L	Tier 1																							0.30 J			163.64	327.28	21.2863		9400	
	Chromium	ug/L	Tier 1																										199.7	399.39	25.9762		9400	
	Chromium	ug/L	Tier 1																										233.22	466.44	30.3372		9400	
	Chromium	ug/L	Tier 1																										237.19	474.38	30.8538		9400	
	Chromium	ug/L	Tier 1																										303.79	607.58	39.5168		9400	
	Chromium	ug/L	Tier 1																										306.47	612.94	39.8652		9400	
	Chromium	ug/L	Tier 1																										318.19	636.39	41.3903		9400	
	Chromium	ug/L	Tier 1																										324.55	649.1	42.217		9400	
	Chromium	ug/L	Tier 1																										328.77	657.54	42.7661		9400	
	Chromium	ug/L	Tier 1																										335.08	670.16	43.5869		9400	
	Chromium	ug/L	Tier 1																										377.02	754.04	49.0425		9400	
	Chromium	ug/L	Tier 1																										379.57	759.15	49.3747		9400	
	Chromium	ug/L	Tier 1																										382.12	764.25	49.7065		9400	
	Chromium	ug/L	Tier 1																										557.13	1114.3	72.4716		9400	
	Chromium	ug/L	Tier 1												0.34 J														559.01	1118	72.7155		9400	
	Chromium	ug/L	Tier 1														0.95 J												606.83	1213.7	78.9364		9400	
	Chromium	ug/L	Tier 1																										955.5	1911	124.291		9400	
	Chromium	ug/L	Tier 1																										980.4	1960.8	127.53		9400	
	Chromium	ug/L	Tier 1																										996.93	1993.9	129.68		9400	
	Chromium	ug/L	Tier 1																										1054.3	2108.6	137.143		9400	
	Chromium	ug/L	Tier 1																										1074.6	2149.2	139.786		9400	
	Chromium	ug/L	Tier 1																										1078.7	2157.3	140.313		9400	
	Chromium	ug/L	Tier 1																										1082.7	2165.5	140.84		9400	
	Chromium	ug/L	Tier 1																										1098.9	2197.8	142.944		9400	
	Chromium	ug/L	Tier 1																										1111	2222	144.517		9400	
	Chromium	ug/L	Tier 1																										1119	2238.1	145.563		9400	
	Chromium	ug/L	Tier 1																										1123.1	2246.1	146.086		9400	
	Chromium	ug/L	Tier 1																										1179	2358	153.361		9400	
	Chromium	ug/L	Tier 1																										1210.7	2421.3	157.484		9400	
	Chromium	ug/L	Tier 1																										1230.4	2460.8	160.049		9400	
	Chromium	ug/L	Tier 1																										1234.3	2468.7	160.56		9400	
	Cobalt	ug/L	Tier 1												0.16 J		0.56 J		<0.077 U							<0.077 U			370	740	100			
	Copper	ug/L	Tier 1																<0.50 U										3.1025	6.205	2.36974		38000	
	Copper	ug/L	Tier 1																							<0.50 U			3.1994	6.3987	2.43676		38000	
	Copper	ug/L	Tier 1																										4.023	8.046	2.99943		38000	
	Copper	ug/L	Tier 1																										4.8094	9.6187	3.52662		38000	
	Copper	ug/L	Tier 1																										4.9037	9.8074	3.58931		38000	
	Copper	ug/L	Tier 1																										6.5187	13.037	4.64667		38000	
	Copper	ug/L	Tier 1																										6.5849	13.17	4.68942		38000	
	Copper	ug/L	Tier 1																										6.8756	13.751	4.87676		38000	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Copper	ug/L	Tier 1																										7.0338	14.068	4.97842		38000	
	Copper	ug/L	Tier 1																										7.1391	14.278	5.04601		38000	
	Copper	ug/L	Tier 1																										7.297	14.594	5.14709		38000	
	Copper	ug/L	Tier 1																										8.3573	16.715	5.82101		38000	
	Copper	ug/L	Tier 1																										8.4224	16.845	5.86216		38000	
	Copper	ug/L	Tier 1																										8.4876	16.975	5.90326		38000	
	Copper	ug/L	Tier 1																										13.097	26.194	8.74872		38000	
	Copper	ug/L	Tier 1												<0.50 U														13.148	26.295	8.77944		38000	
	Copper	ug/L	Tier 1														4												14.45	28.9	9.56451		38000	
	Copper	ug/L	Tier 1																										24.36	48.721	15.3592		38000	
	Copper	ug/L	Tier 1																										25.092	50.184	15.7772		38000	
	Copper	ug/L	Tier 1																										25.579	51.159	16.0547		38000	
	Copper	ug/L	Tier 1																										27.28	54.56	17.0199		38000	
	Copper	ug/L	Tier 1																										27.886	55.772	17.3623		38000	
	Copper	ug/L	Tier 1																										28.007	56.014	17.4306		38000	
	Copper	ug/L	Tier 1																										28.128	56.256	17.4989		38000	
	Copper	ug/L	Tier 1																										28.612	57.223	17.7717		38000	
	Copper	ug/L	Tier 1																										28.974	57.948	17.9758		38000	
	Copper	ug/L	Tier 1																										29.216	58.431	18.1116		38000	
	Copper	ug/L	Tier 1																										29.336	58.673	18.1795		38000	
	Copper	ug/L	Tier 1																										31.023	62.047	19.1251		38000	
	Copper	ug/L	Tier 1																										31.985	63.97	19.6618		38000	
	Copper	ug/L	Tier 1																										32.585	65.169	19.996		38000	
	Copper	ug/L	Tier 1																										32.705	65.409	20.0627		38000	
	Iron	ug/L	Tier 1												3750		18000		2410							519								
	Lead	ug/L	Tier 1																<0.50 U										16.273	32.545	1.82812		190	
	Lead	ug/L	Tier 1																							<0.50 U			16.884	33.768	1.89677		190	
	Lead	ug/L	Tier 1																										22.204	44.407	2.49441		190	
	Lead	ug/L	Tier 1																										27.463	54.925	3.08522		190	
	Lead	ug/L	Tier 1																										28.104	56.208	3.15726		190	
	Lead	ug/L	Tier 1																										39.367	78.735	4.42263		190	
	Lead	ug/L	Tier 1																										39.839	79.678	4.47564		190	
	Lead	ug/L	Tier 1																										41.92	83.84	4.70943		190	
	Lead	ug/L	Tier 1																										43.059	86.117	4.83733		190	
	Lead	ug/L	Tier 1																										43.819	87.638	4.92275		190	
	Lead	ug/L	Tier 1																										44.961	89.923	5.05109		190	
	Lead	ug/L	Tier 1																										52.727	105.45	5.92349		190	
	Lead	ug/L	Tier 1																										53.209	106.42	5.97767		190	
	Lead	ug/L	Tier 1																										53.692	107.38	6.03188		190	
	Lead	ug/L	Tier 1																										88.972	177.94	9.99539		190	
	Lead	ug/L	Tier 1												<0.50 U														89.371	178.74	10.0402		190	
	Lead	ug/L	Tier 1														1.5												99.667	199.33	11.1968		190	
	Lead	ug/L	Tier 1																										180.93	361.87	20.3265		190	
	Lead	ug/L	Tier 1																										187.08	374.16	21.0174		190	
	Lead	ug/L	Tier 1																										191.18	382.37	21.4782		190	
	Lead	ug/L	Tier 1																										205.55	411.11	23.0925		190	
	Lead	ug/L	Tier 1																										210.69	421.38	23.6695		190	
	Lead	ug/L	Tier 1																										211.72	423.43	23.7849		190	
	Lead	ug/L	Tier 1																										212.74	425.49	23.9003		190	
	Lead	ug/L	Tier 1																										216.85	433.71	24.3621		190	
	Lead	ug/L	Tier 1																										219.94	439.88	24.7085		190	
	Lead	ug/L	Tier 1																										221.99	443.99	24.9395		190	
	Lead	ug/L	Tier 1																										223.02	446.04	25.055		190	
	Lead	ug/L	Tier 1																										237.42	474.84	26.6724		190	
	Lead	ug/L	Tier 1																										245.65	491.3	27.5969		190	
	Lead	ug/L	Tier 1																										250.79	501.59	28.1748		190	
	Lead	ug/L	Tier 1																										251.82	503.64	28.2904		190	
	Lithium	ug/L	Tier 1												2.9		1		0.32 J							0.31 J			870	1700	96		58000	
	Magnesium	ug/L	Tier 1												10000		10700		1270							1440								
	Manganese	ug/L	Tier 1																19.8										1061.4	2122.8	491.952		59000	
	Manganese	ug/L	Tier 1																							47.7			1092.3	2184.5	506.26		59000	
	Manganese	ug/L	Tier 1																										1352.4	2704.6	626.79		59000	
	Manganese	ug/L	Tier 1																										1597.3	3194.4	740.303		59000	
	Manganese	ug/L	Tier 1																										1626.5	3252.8	753.834		59000	
	Manganese	ug/L	Tier 1																										2120.9	4241.5	982.975		59000	
	Manganese	ug/L	Tier 1																										2140.9	4281.7	992.273		59000	
	Manganese	ug/L	Tier 1																										2228.9	4457.6	1033.04		59000	
	Manganese	ug/L	Tier 1																										2276.7	4553.2	1055.19		59000	
	Manganese	ug/L	Tier 1																										2308.5	4616.7	1069.92		59000	
	Manganese	ug/L	Tier 1																										2356	4711.8	1091.96		59000	
	Manganese	ug/L	Tier 1																										2673.7	5347.1	1239.18		59000	
	Manganese	ug/L	Tier 1																										2693.1	5386	1248.19		59000	
	Manganese	ug/L	Tier 1																										2712.5	5424.8	1257.19		59000	
	Manganese	ug/L	Tier 1																										4064.5	8128.6	1883.79		59000	
	Manganese	ug/L	Tier 1												994														4079.1	8157.9	1890.59		59000	
	Manganese	ug/L	Tier 1														3070												4454.6	8908.7	2064.58		59000	
	Manganese	ug/L	Tier 1																										7248.8	14497	3359.65		59000	
	Manganese	ug/L	Tier 1																										7451.6	14903	3453.65		59000	
	Manganese	ug/L	Tier 1																										7586.4	15172	3516.12		59000	
	Manganese	ug/L	Tier 1																										8055.6	16110	3733.59		59000	
	Manganese	ug/L	Tier 1																										8222.3	16444	3810.83		59000	
	Manganese	ug/L	Tier 1																										8255.5	16510	3826.25		59000	
	Manganese	ug/L	Tier 1																										8288.8	16577	3841.66		59000	
	Manganese	ug/L	Tier 1																										8421.6	16842	3903.23		59000	
	Manganese	ug/L	Tier 1																										8521.1	17041	3949.32		59000	
	Manganese	ug/L	Tier 1																										8587.3	17174	3980		59000	
	Manganese	ug/L	Tier 1																										8620.4	17240	3995.33		59000	
	Manganese	ug/L	Tier 1																										9081.6	18162	4209.1		59000	
	Manganese	ug/L	Tier 1																										9343.7	18687	4330.58		59000	
	Manganese	ug/L	Tier 1																										9507	19013	4406.27		59000	
	Manganese	ug/L	Tier 1																										9539.6	19078	4421.39		59000	
	Mercury - low level	ng/L	Tier 1												0.278 J		1.09		0.552							0.78			1400	2800	770		1.8	1.3
	Molybdenum	ug/L	Tier 1												0.77 J		0.14 J		<0.064 U							<0.064 U			29000	58000	3200		10000	
	Nickel	ug/L	Tier 1																0.17 J										125.55	251.09	13.9444		210000	
	Nickel	ug/L	Tier 1																							<0.15 U			129.06	258.12	14.3348		210000	
	Nickel	ug/L	Tier 1																										158.54	317.07	17.6084		210000	
	Nickel	ug/L	Tier 1																										186.1	372.2	20.67		210000	
	Nickel	ug/L	Tier 1																										189.38	378.75	21.0338		210000	
	Nickel	ug/L	Tier 1																										244.53	489.07	27.1602		210000	
	Nickel	ug/L	Tier 1																										246.76	493.52	27.4075		210000	
	Nickel	ug/L	Tier 1																										256.52	513.04	28.4913		210000	
	Nickel	ug/L	Tier 1																										261.81	523.63	29.0793		210000	
	Nickel	ug/L	Tier 1																										265.33	530.66	29.4701		210000	
	Nickel	ug/L	Tier 1																										270.59	541.19	30.0546		210000	
	Nickel	ug/L	Tier 1																										305.65	611.3	33.9481		210000	
	Nickel	ug/L	Tier 1																										307.79	615.57	34.1857		210000	
	Nickel	ug/L	Tier 1																										309.92	619.85	34.423		210000	
	Nickel	ug/L	Tier 1																										457.52	915.04	50.8161		210000	
	Nickel	ug/L	Tier 1												0.28 J														459.11	918.22	50.9928		210000	
	Nickel	ug/L	Tier 1														0.71 J												499.74	999.47	55.5053		210000	
	Nickel	ug/L	Tier 1																										798.73	1597.5	88.7147		210000	
	Nickel	ug/L	Tier 1																										820.25	1640.5	91.1042		210000	
	Nickel	ug/L	Tier 1																										834.53	1669.1	92.6908		210000	
	Nickel	ug/L	Tier 1																										884.19	1768.4	98.206		210000	
	Nickel	ug/L	Tier 1																										901.8	1803.6	100.162		210000	
	Nickel	ug/L	Tier 1																										905.31	1810.6	100.552		210000	
	Nickel	ug/L	Tier 1																										908.83	1817.7	100.942		210000	
	Nickel	ug/L	Tier 1																										922.85	1845.7	102.5		210000	
	Nickel	ug/L	Tier 1																										933.34	1866.7	103.665		210000	
	Nickel	ug/L	Tier 1																										940.32	1880.6	104.441		210000	
	Nickel	ug/L	Tier 1																										943.81	1887.6	104.828		210000	

Table H-1
2008 Surface Water Database

EventDate	Parameter	Units	Data Level	Weir #2	Weir #1	Weir #1	Weir #1	Weir #1	Weir #1	Weir #2	Weir #2	Weir #2	Weir #2	Weir #2	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	AMV	FAV	FCV	HCV	HNV	WV
			Field ID	Weir #2	Weir #1-0416	Weir #1-0422	Weir #1-0423	Weir #1-0425	Weir #1-0710	Weir #2-0416	Weir #2-0422	Weir #2-0423	Weir #2-0425	Weir #2-0710	WLD-001	WLD-001 NW	WLD-001 SE	WLD-001 SE	WLD-002	WLD-002	WLD-002	WLD-002	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003	WLD-003						
			Sample Depth	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	1.34	1.42	2.5	0.92	0.92	1	1.2	1.34	2.6						
	Nickel	ug/L	Tier 1																										992.4	1984.8	110.225		210000	
	Nickel	ug/L	Tier 1																										1020	2039.9	113.287		210000	
	Nickel	ug/L	Tier 1																										1037.1	2074.3	115.194		210000	
	Nickel	ug/L	Tier 1																										1040.6	2081.1	115.574		210000	
	Potassium	ug/L	Tier 1												3320		3030		235 J							350								
	Selenium	ug/L	Tier 1												<0.25 U		<0.25 U		<0.25 U							<0.25 U			62	120	5		2700	
	Silver	ug/L	Tier 1												<0.25 P,U		<0.25 P,U		<0.25 P,U							<0.25 P,U			0.54	1.1	0.06		11000	
	Sodium	ug/L	Tier 1												1790		2420		374							680								
	Thallium	ug/L	Tier 1												0.11 J		0.034 J		0.050 J							0.045 J			47	94	7.2		3.7	
	Total Hardness	ug/L	Tier 1												97700		108000		21100							21800								
	Vanadium	ug/L	Tier 1												<0.45 U		1.5		<0.45 U							<0.45 U			110	220	12		2200	
	Zinc	ug/L	Tier 1																2.6 J										31.356	62.712	31.6124		16000	
	Zinc	ug/L	Tier 1																							2.6 J			32.235	64.47	32.4988		16000	
	Zinc	ug/L	Tier 1																										39.609	79.218	39.933		16000	
	Zinc	ug/L	Tier 1																										46.507	93.015	46.8879		16000	
	Zinc	ug/L	Tier 1																										47.327	94.654	47.7142		16000	
	Zinc	ug/L	Tier 1																										61.136	122.27	61.6359		16000	
	Zinc	ug/L	Tier 1																										61.694	123.39	62.1982		16000	
	Zinc	ug/L	Tier 1																										64.137	128.27	64.6616		16000	
	Zinc	ug/L	Tier 1																										65.463	130.93	65.9982		16000	
	Zinc	ug/L	Tier 1																										66.344	132.69	66.8865		16000	
	Zinc	ug/L	Tier 1																										67.662	135.32	68.215		16000	
	Zinc	ug/L	Tier 1																										76.441	152.88	77.0665		16000	
	Zinc	ug/L	Tier 1																										76.977	153.95	77.6067		16000	
	Zinc	ug/L	Tier 1																										77.512	155.02	78.1463		16000	
	Zinc	ug/L	Tier 1																										114.49	228.99	115.431		16000	
	Zinc	ug/L	Tier 1												3.3 J														114.89	229.78	115.833		16000	
	Zinc	ug/L	Tier 1														42.6												125.08	250.15	126.099		16000	
	Zinc	ug/L	Tier 1																										200.05	400.11	201.691		16000	
	Zinc	ug/L	Tier 1																										205.45	410.9	207.132		16000	
	Zinc	ug/L	Tier 1																										209.04	418.07	210.745		16000	
	Zinc	ug/L	Tier 1																										221.49	442.99	223.305		16000	
	Zinc	ug/L	Tier 1																										225.91	451.82	227.759		16000	
	Zinc	ug/L	Tier 1																										226.79	453.59	228.648		16000	
	Zinc	ug/L	Tier 1																										227.67	455.35	229.536		16000	
	Zinc	ug/L	Tier 1																										231.19	462.39	233.084		16000	
	Zinc	ug/L	Tier 1																										233.83	467.65	235.738		16000	
	Zinc	ug/L	Tier 1																										235.58	471.15	237.504		16000	
	Zinc	ug/L	Tier 1																										236.45	472.9	238.387		16000	
	Zinc	ug/L	Tier 1																										248.64	497.29	250.679		16000	
	Zinc	ug/L	Tier 1																										255.56	511.13	257.654		16000	
	Zinc	ug/L	Tier 1																										259.87	519.74	261.996		16000	
	Zinc	ug/L	Tier 1																										260.73	521.46	262.863		16000	
	Inorganics																																	
	Bicarbonate Alkalinity	mg/L	Tier 1												99.8		115		19.5							13								
	Carbonate Alkalinity	mg/L	Tier 1												<3.2 U		<3.2 U		<3.2 U							<3.2 U								
	Chloride	mg/L	Tier 1												2.6 J		3.3 J		2.3 J							2.2 J								
	COD	mg/L	Tier 1												19.6 J		70.1		26.4 J							30.8 J								
	Cyanide	mg/L	Tier 1												<0.0060 P,U		<0.0060 P,U		<0.0060 P,U							<0.0060 P,U			0.022	0.044	0.0052		48	
	Fluoride	mg/L	Tier 1												0.43 J		0.33 J		0.20 J							0.21 J								
	Gross Alpha	pCi/L	Tier 1												0.289 +/- 0.699		0.948 +/- 0.835		0.715 +/- 0.589							1.77 +/- 1.18								
	Gross Beta	pCi/L	Tier 1												2.31 +/- 0.987		3.99 +/- 1.10		1.21 +/- 0.654							2.56 +/- 1.16								
	Nitrogen, Ammonia	mg/L	Tier 1												<0.50 U		0.61 J		<0.50 U							<0.50 U								
	Nitrogen, Nitrate	mg/L	Tier 1												<0.085 U		0.15 J		<0.085 U							<0.085 U								
	Nitrogen, Nitrite	mg/L	Tier 1												<0.036 U		<0.036 U		<0.036 U							<0.036 U								
	Sulfate	mg/L	Tier 1												3.5 J		3.7 J		2.0 J							3.8 J								
	Sulfide	mg/L	Tier 1												<2.3 U		<2.3 U		<2.3 U							<2.3 U								
	TOC as NPOC	mg/L	Tier 1												6.7		14.4		9.3							10.1								
	Dissolved	mg/L	Tier 1												5.5		13.1		8.6							9.2								
	Total Alkalinity	mg/L	Tier 1												99.8		115		19.5							13								
	Total Dissolved Solids	mg/L	Tier 1												124		144		28							34								
	Total Suspended Solids	mg/L	Tier 1												7.4		11.1		5.2							3.6 J								

eet per second	mV = millivolt
mical oxygen demand	NA = Not applicable
	ng/L = nanogram per liter
ate	NM = not measured
	NPOC = Nonpurgable organic carbon
	NTU = Nephelometric turbidity units
above mean sea level	ORP = oxidation reduction potential
r second	pCi/L = Picocuries per liter
dwater	S.U. = standard unit
t water for collection of field parameters	TOC = Total organic carbon
ation	ug/L = micrograms/liter
ram/liter	
llimhos	

)25 degrees C = micromhos per centimeter at 25 degrees Celcius
tic maximum value
c - The analyte has been detected between the method detection limit and the reporting limit
acute value
chronic value
an cancer value
an noncancer value
ation detected equal to or greater than the method detection limit but less than the reporting limit.
not detected above the method detection limit. The detection limit is above the criteria due to sample dilution
lyte was not detected at or above the reporting limit.
value
nalyte was not detected at or above the reporting limit
Commercial I drinking water criteria source = MDEQ Part 201 generic cleanup criteria and screening levels
compared to the MDEQ res/com I DW criteria. Exceedances are highlighted.

Table H-2

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
2/18/2008	0	Dissolved Oxygen	mg/L	8.92	10.5	10.78	10.5	10.52	10.51	10.41
	3	Dissolved Oxygen	mg/L	9.88	10.24	10.47	10.3	10.63	10.39	10.27
	6	Dissolved Oxygen	mg/L	10.2	10.28	10.34	10.2	10.36	10.28	10.2
	9	Dissolved Oxygen	mg/L	10.26	10.2	10.25	10.2	10.32	10.21	10.17
	12	Dissolved Oxygen	mg/L	10.18	10.17	10.22	10.2	10.28	10.13	10.15
	15	Dissolved Oxygen	mg/L	10.17	10.12	10.18	10.1	10.2	10.09	10.09
	18	Dissolved Oxygen	mg/L	10.15	10.05	10.14	10.1	10.2	9.97	10.04
	21	Dissolved Oxygen	mg/L	10.12	10.03	10.04	10	10.19	9.93	10.01
	24	Dissolved Oxygen	mg/L	10.05	9.97	9.99	10	10.1	9.89	9.96
	27	Dissolved Oxygen	mg/L	10.05	9.94	9.93	9.9	10.07	9.85	9.92
	30	Dissolved Oxygen	mg/L	9.98	9.84	9.9	9.9	10.01	9.81	9.78
	33	Dissolved Oxygen	mg/L	9.54	9.85	9.87	9.9	9.95	9.78	9.78
	36	Dissolved Oxygen	mg/L	9.4	9.42	9.82	9.9	9.92	9.75	9.76
	39	Dissolved Oxygen	mg/L	9.37	9.29	9.78	9.8	9.89	9.4	9.29
	42	Dissolved Oxygen	mg/L	9.36	9.22	9.29	9.4	9.7	9.25	9.29
	45	Dissolved Oxygen	mg/L	9.43	9.26	9.18	9.3	9.48	9.22	9.29
	48	Dissolved Oxygen	mg/L	9.49	9.26	9.27	9.2	9.36	9.24	9.3
	51	Dissolved Oxygen	mg/L	9.44	9.31	9.27	9.3	9.23	9.31	9.27
	54	Dissolved Oxygen	mg/L	9.4	9.3	9.21	9.3	9.29	9.23	9.22
	57	Dissolved Oxygen	mg/L	9.44	9.24	9.17	9.3	9.27	9.14	9.15
	60	Dissolved Oxygen	mg/L	9.48	9.17	9.15	9.1	9.23	9.08	9.14
	63	Dissolved Oxygen	mg/L	9.46	9.19	9.12	9.2	9.18	9.08	9.13
	66	Dissolved Oxygen	mg/L	9.44	9.1	9.24	9	9.09	9.03	9.3
	69	Dissolved Oxygen	mg/L	9.41	9.13	9.24	9.2	9.02	9.22	9.21
	72	Dissolved Oxygen	mg/L	9.39	9.19	9.23	9.2	9.12	9.19	9.17
	75	Dissolved Oxygen	mg/L	9.36	9.19	9.18	9.1	9.12	9.14	9.1
	78	Dissolved Oxygen	mg/L	9.31	9.13	9.12	9.1	9.08	9.03	8.69
	81	Dissolved Oxygen	mg/L	9.27	9.1	9.08	8.9	9.07	8.66	8.52
	84	Dissolved Oxygen	mg/L	9.25	9.12	8.9	8.9	8.58	8.77	8.63
	87	Dissolved Oxygen	mg/L	9.18	9.04	8.84	8.9	8.09	8.53	8.16
	90	Dissolved Oxygen	mg/L	8.2	8.25	8.03	8	7.34	6.86	7.01
	93	Dissolved Oxygen	mg/L	6.39	6.74	5.21	5.2	6.45	3.98	4.43
	96	Dissolved Oxygen	mg/L	4.28	4.61	2.18	2.9	5.35	2.34	1.72
	99	Dissolved Oxygen	mg/L	2.34	1.79	0.53	0.8	2.19	0.71	0.53
	102	Dissolved Oxygen	mg/L	0.44	0.53	<0.1	0.1	0.54	<0.1	<0.1
	105	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1		<0.1	<0.1
	108	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
	111	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
	114	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
	117	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	120	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	123	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	126	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	129	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	132	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	135	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	138	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
	141	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	144	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
	147	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
	150	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1
	153	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1
	156	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
	159	Dissolved Oxygen	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	162	Dissolved Oxygen	mg/L		<0.1	<0.1	0.2	<0.1	<0.1	<0.1
	165	Dissolved Oxygen	mg/L		<0.1	<0.1	0.3	<0.1	<0.1	<0.1
	168	Dissolved Oxygen	mg/L		<0.1	<0.1	0.1	<0.1	<0.1	
	171	Dissolved Oxygen	mg/L		<0.1	<0.1	0.1	<0.1	<0.1	
	174	Dissolved Oxygen	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1	
	177	Dissolved Oxygen	mg/L			<0.1	<0.1	<0.1	<0.1	
	180	Dissolved Oxygen	mg/L			<0.1	<0.1	<0.1	<0.1	
	183	Dissolved Oxygen	mg/L			<0.1		<0.1	<0.1	
	186	Dissolved Oxygen	mg/L				<0.1	<0.1		
	0	ORP	mV	262	283	270	190	192	160	182
	3	ORP	mV	266	285	283	182	197	172	182
	6	ORP	mV	268	286	287	183	200	175	182
	9	ORP	mV	270	288	289	184	202	177	183
	12	ORP	mV	272	289	291	186	202	180	183
	15	ORP	mV	274	290	293	186	204	181	183
	18	ORP	mV	275	292	294	187	206	183	183
	21	ORP	mV	277	293	295	188	206	184	184
	24	ORP	mV	281	294	296	188	207	186	184
	27	ORP	mV	283	295	297	189	208	187	184
	30	ORP	mV	286	296	298	189	209	189	185
	33	ORP	mV	287	297	299	190	210	191	185
	36	ORP	mV	290	300	299	191	211	193	186
	39	ORP	mV	291	302	300	193	212	194	186
	42	ORP	mV	292	303	301	194	213	196	187
	45	ORP	mV	294	304	304	195	216	198	189
	48	ORP	mV	295	305	306	196	217	199	190
	51	ORP	mV	296	305	307	196	218	200	190
	54	ORP	mV	297	306	308	197	219	201	191
	57	ORP	mV	298	307	308	198	220	202	192
	60	ORP	mV	299	307	309	198	221	203	192
	63	ORP	mV	300	308	309	199	222	205	193
	66	ORP	mV	301	309	310	200	223	206	194
	69	ORP	mV	302	310	311	200	224	207	194
	72	ORP	mV	302	310	312	200	224	207	194
	75	ORP	mV	303	311	312	200	225	208	195
	78	ORP	mV	304	312	312	201	225	208	195
	81	ORP	mV	305	312	313	201	226	209	195
	84	ORP	mV	306	313	314	202	226	210	196
	87	ORP	mV	306	313	315	202	226	210	196
	90	ORP	mV	307	314	315	202	226	211	196
	93	ORP	mV	308	315	316	203	227	212	197
	96	ORP	mV	309	317	317	204	227	213	199
	99	ORP	mV	309	318	318	204	223	210	201
	102	ORP	mV	305	315	315	203	215	200	201
	105	ORP	mV	301	313	313	201	212	194	200
	108	ORP	mV	298	311	310	198	207	191	198
	111	ORP	mV	296	309	308	197	204	188	198
	114	ORP	mV	293	307	306	195	201	186	197
	117	ORP	mV	291	306	301	194	199	184	196
	120	ORP	mV	289	304	300	193	196	182	195
	123	ORP	mV	287	302	298	192	195	180	194
	126	ORP	mV	285	300	296	191	192	178	193
	129	ORP	mV	282	297	294	189	189	175	192

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	132	ORP	mV	278	295	292	187	187	173	191
	135	ORP	mV	276	292	290	185	184	171	189
	138	ORP	mV	272	289	288	183	182	168	187
	141	ORP	mV	269	286	286	181	180	166	186
	144	ORP	mV	265	283	282	179	177	164	184
	147	ORP	mV	262	277	280	177	175	162	183
	150	ORP	mV	259	274	277	175	173	159	181
	153	ORP	mV	255	271	275	174	169	157	179
	156	ORP	mV	252	268	273	172	168	154	178
	159	ORP	mV	248	264	269	170	166	152	176
	162	ORP	mV		261	267	168	164	150	175
	165	ORP	mV		259	264	166	162	148	173
	168	ORP	mV		255	262	164	160	145	171
	171	ORP	mV		252	258	163	159	143	167
	174	ORP	mV		249	254	161	157	141	165
	177	ORP	mV			250	158	154	139	161
	180	ORP	mV			247	156	151	137	158
	183	ORP	mV			245	154		134	155
	186	ORP	mV				153			
	0	pH	S.U.	7.8	7.8	7.7	7.8	7.8	7.8	7.8
	3	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.8	7.8
	6	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.71
	9	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.7
	12	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.7
	15	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.69
	18	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.68
	21	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.67
	24	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.67
	27	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.67
	30	pH	S.U.	7.8	7.8	7.8	7.7	7.7	7.7	7.67
	33	pH	S.U.	7.7	7.8	7.8	7.7	7.7	7.7	7.67
	36	pH	S.U.	7.7	7.7	7.8	7.7	7.7	7.6	7.67
	39	pH	S.U.	7.7	7.7	7.8	7.6	7.7	7.6	7.67
	42	pH	S.U.	7.7	7.6	7.7	7.6	7.7	7.6	7.67
	45	pH	S.U.	7.6	7.6	7.7	7.6	7.6	7.6	7.6
	48	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.6
	51	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.6
	54	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.49
	57	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.49
	60	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.48
	63	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.47
	66	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.45
	69	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.45
	72	pH	S.U.	7.6	7.6	7.5	7.5	7.5	7.5	7.45
	75	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.45
	78	pH	S.U.	7.6	7.6	7.6	7.5	7.5	7.5	7.45
	81	pH	S.U.	7.6	7.5	7.5	7.5	7.5	7.5	7.45
	84	pH	S.U.	7.6	7.5	7.5	7.5	7.5	7.5	7.45
	87	pH	S.U.	7.6	7.5	7.5	7.5	7.5	7.5	7.45
	90	pH	S.U.	7.5	7.5	7.5	7.5	7.4	7.4	7.45
	93	pH	S.U.	7.5	7.5	7.5	7.4	7.4	7.4	7.4
	96	pH	S.U.	7.4	7.4	7.5	7.3	7.3	7.3	7.3
	99	pH	S.U.	7.3	7.3	7.3	7.2	7.2	7.2	7.2
	102	pH	S.U.	7.3	7.3	7.3	7.2	7.2	7.2	7.2
	105	pH	S.U.	7.3	7.3	7.2	7.2	7.2	7.2	7.2
	108	pH	S.U.	7.3	7.3	7.3	7.2	7.2	7.2	7.2
	111	pH	S.U.	7.3	7.3	7.3	7.2	7.3	7.3	7.2
	114	pH	S.U.	7.3	7.3	7.3	7.3	7.3	7.3	7.3
	117	pH	S.U.	7.4	7.3	7.3	7.3	7.3	7.3	7.32
	120	pH	S.U.	7.4	7.4	7.3	7.3	7.3	7.3	7.32
	123	pH	S.U.	7.4	7.4	7.4	7.3	7.3	7.3	7.32
	126	pH	S.U.	7.4	7.4	7.4	7.3	7.3	7.3	7.32
	129	pH	S.U.	7.4	7.4	7.4	7.3	7.3	7.4	7.32
	132	pH	S.U.	7.4	7.4	7.4	7.3	7.4	7.4	7.4
	135	pH	S.U.	7.4	7.4	7.4	7.4	7.4	7.4	7.4
	138	pH	S.U.	7.5	7.5	7.4	7.4	7.4	7.4	7.4
	141	pH	S.U.	7.5	7.5	7.5	7.4	7.4	7.4	7.4
	144	pH	S.U.	7.5	7.5	7.5	7.4	7.4	7.4	7.4
	147	pH	S.U.	7.5	7.5	7.5	7.4	7.4	7.4	7.4
	150	pH	S.U.	7.5	7.5	7.5	7.4	7.5	7.5	7.5
	153	pH	S.U.	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	156	pH	S.U.	7.6	7.5	7.5	7.5	7.5	7.5	7.5
	159	pH	S.U.	7.6	7.6	7.5	7.5	7.5	7.5	7.5
	162	pH	S.U.		7.6	7.6	7.5	7.5	7.5	7.5
	165	pH	S.U.		7.6	7.6	7.5	7.5	7.5	7.5
	168	pH	S.U.		7.6	7.6	7.5	7.5	7.5	7.5
	171	pH	S.U.		7.6	7.6	7.5	7.5	7.5	7.5
	174	pH	S.U.		7.6	7.6	7.5	7.5	7.5	7.5
	177	pH	S.U.			7.6	7.5	7.5	7.5	7.5
	180	pH	S.U.			7.6	7.5	7.6	7.6	7.5
	183	pH	S.U.			7.6	7.6		7.6	7.5
	186	pH	S.U.				7.7			
	0	Specific Conductance	umhos/cm @ 25 degrees C	547	550	552	565	551	550	556
	3	Specific Conductance	umhos/cm @ 25 degrees C	543	546	544	545	543	544	543
	6	Specific Conductance	umhos/cm @ 25 degrees C	543	540	540	543	541	541	540
	9	Specific Conductance	umhos/cm @ 25 degrees C	540	541	540	540	541	540	540
	12	Specific Conductance	umhos/cm @ 25 degrees C	540	540	539	540	540	540	539
	15	Specific Conductance	umhos/cm @ 25 degrees C	540	539	539	539	539	539	539
	18	Specific Conductance	umhos/cm @ 25 degrees C	539	538	539	538	538	538	538
	21	Specific Conductance	umhos/cm @ 25 degrees C	538	538	539	537	538	538	538
	24	Specific Conductance	umhos/cm @ 25 degrees C	538	538	538	537	538	538	537
	27	Specific Conductance	umhos/cm @ 25 degrees C	538	538	538	537	537	537	537
	30	Specific Conductance	umhos/cm @ 25 degrees C	537	538	538	537	537	537	537
	33	Specific Conductance	umhos/cm @ 25 degrees C	538	538	538	537	537	538	537
	36	Specific Conductance	umhos/cm @ 25 degrees C	537	537	538	537	537	537	536
	39	Specific Conductance	umhos/cm @ 25 degrees C	537	536	538	536	537	537	536
	42	Specific Conductance	umhos/cm @ 25 degrees C	538	537	538	536	537	537	536
	45	Specific Conductance	umhos/cm @ 25 degrees C	539	538	536	536	537	537	537
	48	Specific Conductance	umhos/cm @ 25 degrees C	540	538	538	537	538	538	537
	51	Specific Conductance	umhos/cm @ 25 degrees C	540	539	539	538	538	539	537
	54	Specific Conductance	umhos/cm @ 25 degrees C	541	539	539	538	538	539	538
	57	Specific Conductance	umhos/cm @ 25 degrees C	541	540	539	538	539	539	539
	60	Specific Conductance	umhos/cm @ 25 degrees C	541	540	539	538	538	539	538
	63	Specific Conductance	umhos/cm @ 25 degrees C	542	540	540	540	539	540	540
	66	Specific Conductance	umhos/cm @ 25 degrees C	542	541	540	540	539	541	541
	69	Specific Conductance	umhos/cm @ 25 degrees C	542	542	541	540	540	541	540
	72	Specific Conductance	umhos/cm @ 25 degrees C	542	542	541	540	540	541	541

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	75	Specific Conductance	umhos/cm @ 25 degrees C	542	542	541	540	540	541	541
	78	Specific Conductance	umhos/cm @ 25 degrees C	542	543	542	540	540	541	541
	81	Specific Conductance	umhos/cm @ 25 degrees C	543	543	543	541	541	543	541
	84	Specific Conductance	umhos/cm @ 25 degrees C	544	544	544	542	543	543	542
	87	Specific Conductance	umhos/cm @ 25 degrees C	543	544	544	543	544	544	543
	90	Specific Conductance	umhos/cm @ 25 degrees C	546	545	545	545	548	546	544
	93	Specific Conductance	umhos/cm @ 25 degrees C	551	549	553	551	555	553	550
	96	Specific Conductance	umhos/cm @ 25 degrees C	564	563	565	568	568	571	563
	99	Specific Conductance	umhos/cm @ 25 degrees C	584	580	586	588	590	587	586
	102	Specific Conductance	umhos/cm @ 25 degrees C	610	612	615	617	618	618	610
	105	Specific Conductance	umhos/cm @ 25 degrees C	636	639	634	635	640	641	641
	108	Specific Conductance	umhos/cm @ 25 degrees C	651	652	652	649	656	652	650
	111	Specific Conductance	umhos/cm @ 25 degrees C	663	663	663	659	665	666	663
	114	Specific Conductance	umhos/cm @ 25 degrees C	670	670	671	671	674	674	672
	117	Specific Conductance	umhos/cm @ 25 degrees C	678	680	680	677	680	681	679
	120	Specific Conductance	umhos/cm @ 25 degrees C	683	684	682	685	684	686	685
	123	Specific Conductance	umhos/cm @ 25 degrees C	688	691	690	688	692	692	691
	126	Specific Conductance	umhos/cm @ 25 degrees C	694	697	698	696	699	698	697
	129	Specific Conductance	umhos/cm @ 25 degrees C	702	704	704	702	704	705	703
	132	Specific Conductance	umhos/cm @ 25 degrees C	708	709	710	705	711	711	708
	135	Specific Conductance	umhos/cm @ 25 degrees C	715	716	716	713	716	717	714
	138	Specific Conductance	umhos/cm @ 25 degrees C	720	721	721	720	722	721	720
	141	Specific Conductance	umhos/cm @ 25 degrees C	725	727	727	726	727	726	725
	144	Specific Conductance	umhos/cm @ 25 degrees C	731	732	732	730	732	732	731
	147	Specific Conductance	umhos/cm @ 25 degrees C	736	737	737	735	737	737	735
	150	Specific Conductance	umhos/cm @ 25 degrees C	740	741	742	739	742	742	740
	153	Specific Conductance	umhos/cm @ 25 degrees C	743	744	745	743	746	745	744
	156	Specific Conductance	umhos/cm @ 25 degrees C	747	748	748	747	748	748	747
	159	Specific Conductance	umhos/cm @ 25 degrees C	750	750	751	749	750	751	749
	162	Specific Conductance	umhos/cm @ 25 degrees C		752	752	751	751	752	751
	165	Specific Conductance	umhos/cm @ 25 degrees C		753	754	752	753	753	752
	168	Specific Conductance	umhos/cm @ 25 degrees C		754	754	753	754	754	753
	171	Specific Conductance	umhos/cm @ 25 degrees C		755	755	753	754	755	754
	174	Specific Conductance	umhos/cm @ 25 degrees C		755	755	754	754	755	754
	177	Specific Conductance	umhos/cm @ 25 degrees C			756	755	755	755	755
	180	Specific Conductance	umhos/cm @ 25 degrees C			756	756	757	756	756
	183	Specific Conductance	umhos/cm @ 25 degrees C			757	757		757	756
	186	Specific Conductance	umhos/cm @ 25 degrees C				764			
	0	Temperature	Celsius	0.3	0.33	0.9	0.5	0.26	0.02	0.31
	3	Temperature	Celsius	1.2	1	1.4	1.5	1.6	1.4	1.4
	6	Temperature	Celsius	2	2.1	2.4	2.2	2.2	2.3	2.2
	9	Temperature	Celsius	2.6	2.6	2.6	2.5	2.5	2.7	2.5
	12	Temperature	Celsius	2.8	2.8	2.8	2.7	2.8	2.8	2.7
	15	Temperature	Celsius	3	3	3	2.9	3	3	2.9
	18	Temperature	Celsius	3.1	3.1	3.1	3.1	3.1	3.2	3
	21	Temperature	Celsius	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	24	Temperature	Celsius	3.3	3.3	3.3	3.3	3.3	3.3	3.2
	27	Temperature	Celsius	3.3	3.4	3.3	3.3	3.3	3.4	3.3
	30	Temperature	Celsius	3.3	3.4	3.4	3.4	3.4	3.4	3.3
	33	Temperature	Celsius	3.3	3.4	3.4	3.4	3.4	3.4	3.4
	36	Temperature	Celsius	3.3	3.4	3.4	3.4	3.4	3.4	3.4
	39	Temperature	Celsius	3.3	3.4	3.4	3.4	3.4	3.4	3.5
	42	Temperature	Celsius	3.2	3.3	3.4	3.4	3.4	3.4	3.5
	45	Temperature	Celsius	3.2	3.3	3.4	3.4	3.4	3.4	3.5
	48	Temperature	Celsius	3.2	3.3	3.3	3.4	3.3	3.3	3.4
	51	Temperature	Celsius	3.2	3.3	3.3	3.3	3.3	3.3	3.4
	54	Temperature	Celsius	3.2	3.3	3.3	3.3	3.3	3.3	3.4
	57	Temperature	Celsius	3.2	3.3	3.4	3.3	3.4	3.3	3.4
	60	Temperature	Celsius	3.2	3.3	3.4	3.3	3.4	3.4	3.4
	63	Temperature	Celsius	3.2	3.3	3.4	3.2	3.4	3.3	3.4
	66	Temperature	Celsius	3.3	3.3	3.4	3.3	3.4	3.3	3.3
	69	Temperature	Celsius	3.3	3.3	3.4	3.3	3.4	3.3	3.4
	72	Temperature	Celsius	3.3	3.3	3.4	3.4	3.4	3.4	3.4
	75	Temperature	Celsius	3.3	3.3	3.5	3.4	3.5	3.4	3.4
	78	Temperature	Celsius	3.3	3.3	3.6	3.5	3.5	3.4	3.5
	81	Temperature	Celsius	3.3	3.3	3.5	3.5	3.6	3.4	3.5
	84	Temperature	Celsius	3.4	3.3	3.5	3.5	3.7	3.4	3.5
	87	Temperature	Celsius	3.5	3.3	3.6	3.5	3.8	3.6	3.6
	90	Temperature	Celsius	3.6	3.6	3.7	3.7	3.9	3.8	3.7
	93	Temperature	Celsius	3.7	3.7	3.9	3.8	3.9	3.9	3.8
	96	Temperature	Celsius	3.9	3.9	4	4	4	4	3.9
	99	Temperature	Celsius	4	4	4	4.1	4.1	4.1	4
	102	Temperature	Celsius	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	105	Temperature	Celsius	4.2	4.2	4.1	4.1	4.2	4.2	4.2
	108	Temperature	Celsius	4.2	4.2	4.2	4.2	4.2	4.2	4.2
	111	Temperature	Celsius	4.2	4.2	4.2	4.2	4.3	4.2	4.2
	114	Temperature	Celsius	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	117	Temperature	Celsius	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	120	Temperature	Celsius	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	123	Temperature	Celsius	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	126	Temperature	Celsius	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	129	Temperature	Celsius	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	132	Temperature	Celsius	4.4	4.4	4.4	4.4	4.5	4.5	4.4
	135	Temperature	Celsius	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	138	Temperature	Celsius	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	141	Temperature	Celsius	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	144	Temperature	Celsius	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	147	Temperature	Celsius	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	150	Temperature	Celsius	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	153	Temperature	Celsius	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	156	Temperature	Celsius	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	159	Temperature	Celsius	4.6	4.6	4.6	4.6	4.6	4.7	4.6
	162	Temperature	Celsius		4.7	4.6	4.7	4.7	4.7	4.7
	165	Temperature	Celsius		4.7	4.7	4.7	4.7	4.7	4.7
	168	Temperature	Celsius		4.7	4.7	4.7	4.7	4.7	4.7
	171	Temperature	Celsius		4.7	4.7	4.7	4.7	4.7	4.7
	174	Temperature	Celsius		4.7	4.7	4.7	4.7	4.7	4.7
	177	Temperature	Celsius			4.7	4.7	4.7	4.7	4.7
	180	Temperature	Celsius			4.7	4.7	4.7	4.7	4.7
	183	Temperature	Celsius			4.7	4.7		4.8	4.7
	186	Temperature	Celsius				4.8			
4/30/2008	0	Dissolved Oxygen	mg/L	10.93	10.71	10.91	10.83	10.84	10.72	10.86
	3	Dissolved Oxygen	mg/L	11.03	10.69	10.9	10.82	10.84	10.71	10.99
	6	Dissolved Oxygen	mg/L	11.03	10.71	10.89	10.79	10.83	10.7	10.99
	9	Dissolved Oxygen	mg/L	11.01	10.72	10.82	10.77	10.81	10.7	10.93
	12	Dissolved Oxygen	mg/L	10.99	10.79	10.83	10.77	10.91	10.77	10.94
	15	Dissolved Oxygen	mg/L	10.87	10.9	10.84	10.75	10.93	10.83	10.92

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	18	Dissolved Oxygen	mg/L	10.87	10.88	10.72	10.67	10.87	10.86	10.85
	21	Dissolved Oxygen	mg/L	10.81	10.84	10.6	10.65	10.84	10.82	10.74
	24	Dissolved Oxygen	mg/L	10.73	10.72	10.59	10.61	10.78	10.77	10.72
	27	Dissolved Oxygen	mg/L	10.67	10.64	10.52	10.58	10.7	10.7	10.65
	30	Dissolved Oxygen	mg/L	10.53	10.51	10.44	10.52	10.63	10.62	10.51
	33	Dissolved Oxygen	mg/L	10.46	10.38	10.35	10.39	10.52	10.56	10.47
	36	Dissolved Oxygen	mg/L	10.33	10.26	10.25	10.29	10.44	10.41	10.4
	39	Dissolved Oxygen	mg/L	10.37	10.19	10.14	10.22	10.34	10.33	10.27
	42	Dissolved Oxygen	mg/L	10.01	9.97	10.03	10.15	10.2	10.07	10.09
	45	Dissolved Oxygen	mg/L	9.83	9.75	9.86	9.99	9.98	9.9	9.94
	48	Dissolved Oxygen	mg/L	9.7	9.53	9.73	9.78	9.67	9.68	9.84
	51	Dissolved Oxygen	mg/L	9.43	9.31	9.64	9.61	9.53	9.48	9.75
	54	Dissolved Oxygen	mg/L	9.44	9.1	9.54	9.44	9.29	9.24	9.56
	57	Dissolved Oxygen	mg/L	9.19	9.09	9.31	9.26	9.16	8.98	9.41
	60	Dissolved Oxygen	mg/L	9.08	8.99	9.12	9.21	9.08	8.9	9.26
	63	Dissolved Oxygen	mg/L	8.93	8.83	8.89	8.88	9.01	8.8	9.1
	66	Dissolved Oxygen	mg/L	8.84	8.78	8.74	8.74	8.9	8.64	8.95
	69	Dissolved Oxygen	mg/L	8.7	8.63	8.7	8.58	8.7	8.47	8.85
	72	Dissolved Oxygen	mg/L	8.49	8.5	8.61	8.39	8.81	8.43	8.78
	75	Dissolved Oxygen	mg/L	8.35	8.38	8.46	8.36	8.45	8.18	8.77
	78	Dissolved Oxygen	mg/L	8.23	8.23	8.26	8.04	8.16	7.85	8.44
	81	Dissolved Oxygen	mg/L	8	8.05	8.11	7.81	7.98	7.52	8.19
	84	Dissolved Oxygen	mg/L	7.56	7.85	7.78	7.6	7.67	7.16	7.85
	87	Dissolved Oxygen	mg/L	7.18	7.21	7.38	7.45	7	6.81	7.58
	90	Dissolved Oxygen	mg/L	6.67	6.65	6.42	7.04	6.63	6.42	7.07
	93	Dissolved Oxygen	mg/L	6.32	6.05	5.7	6.65	6.23	6.08	6.1
	96	Dissolved Oxygen	mg/L	5.87	5.21	5.28	5.86	5.99	5.75	4.9
	99	Dissolved Oxygen	mg/L	5.72	4.52	4.48	4.32	5.16	5.43	4.8
	102	Dissolved Oxygen	mg/L	5.23	3.48	3.3	4	4.05	4.6	4
	105	Dissolved Oxygen	mg/L	3	2.51	3	3	3.38	4.32	3
	108	Dissolved Oxygen	mg/L	2	1.21	2	2	1.85	2.7	2
	111	Dissolved Oxygen	mg/L	1	0.7	2	1	1	1.8	2
	114	Dissolved Oxygen	mg/L	0.8	0.4	1	1	0.6	1	1
	117	Dissolved Oxygen	mg/L	0.4	0.3	0.6	1	0.2	0.8	0.6
	120	Dissolved Oxygen	mg/L	0.3	0.3	0.4	0.6	0.1	0.2	0.3
	123	Dissolved Oxygen	mg/L	0.2	0.2	0.2	0.3	0.1	0.2	0.2
	126	Dissolved Oxygen	mg/L	0.3	0.2	0.1	0.2	0.1	0.1	0.1
	129	Dissolved Oxygen	mg/L	0.3	0.2	<0.1	0.1	0.1	0.1	<0.1
	132	Dissolved Oxygen	mg/L	0.2	0.1	<0.1	<0.1	0.1	0.1	<0.1
	135	Dissolved Oxygen	mg/L	0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	138	Dissolved Oxygen	mg/L	0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	141	Dissolved Oxygen	mg/L	0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	144	Dissolved Oxygen	mg/L	<0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	147	Dissolved Oxygen	mg/L	<0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	150	Dissolved Oxygen	mg/L	<0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	153	Dissolved Oxygen	mg/L	<0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	156	Dissolved Oxygen	mg/L	<0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	159	Dissolved Oxygen	mg/L	<0.1	0.1	<0.1	<0.1	0.1	0.1	<0.1
	162	Dissolved Oxygen	mg/L		0.1	<0.1	<0.1	0.1	0.1	<0.1
	165	Dissolved Oxygen	mg/L		0.1	<0.1	<0.1	0.1	0.1	<0.1
	168	Dissolved Oxygen	mg/L		0.1	<0.1	<0.1	0.1	0.1	<0.1
	171	Dissolved Oxygen	mg/L		0.1	<0.1	<0.1	0.1	0.1	<0.1
	174	Dissolved Oxygen	mg/L			<0.1	<0.1	0.1	0.1	<0.1
	177	Dissolved Oxygen	mg/L			<0.1	<0.1	0.1	0.1	<0.1
	180	Dissolved Oxygen	mg/L			<0.1	<0.1		0.1	<0.1
	183	Dissolved Oxygen	mg/L			<0.1	<0.1		0.1	<0.1
	186	Dissolved Oxygen	mg/L				<0.1			
	0	ORP	mV	175.2	164	166.2	168	153.2	165.1	104.9
	3	ORP	mV	175.3	166.7	164.9	175.2	152.3	164.6	107.3
	6	ORP	mV	175.1	162.1	163.8	177.6	151.7	164.1	108.8
	9	ORP	mV	175.3	160.7	163.1	179.2	151.6	163.6	110.3
	12	ORP	mV	175	160.4	162.4	180.1	153	164.6	112.1
	15	ORP	mV	177.1	162.1	162	180.5	154	164.3	113.3
	18	ORP	mV	177.6	163	162.4	181.1	154.4	164.9	115.3
	21	ORP	mV	177.8	163.1	161.9	181.2	155.1	164.9	116.2
	24	ORP	mV	178.6	163.5	162.1	181.4	155.7	164.9	117.2
	27	ORP	mV	179.1	164.1	161.8	181.7	156.2	164.9	118.5
	30	ORP	mV	179.8	164.5	161.6	181.9	156.7	165	119.3
	33	ORP	mV	180.2	165.2	161.7	182.6	157.2	165.1	120.5
	36	ORP	mV	180.6	165.7	161.9	183	157.7	165.5	121.4
	39	ORP	mV	181.2	166.5	162	183	158.6	166.1	122.6
	42	ORP	mV	182	167.2	162.2	183.4	159.3	166.7	123.9
	45	ORP	mV	182.7	168	162.5	184.1	160.2	167	124.7
	48	ORP	mV	183.3	168.7	162.7	184.5	161.8	167.6	125.4
	51	ORP	mV	183.8	169.6	162.9	185	162.6	168	126
	54	ORP	mV	184.3	170.4	163	185.5	163.6	168.7	127
	57	ORP	mV	184.7	169.8	163.9	185.9	164.1	169.2	127.6
	60	ORP	mV	184.9	170.5	164.3	186.2	164.6	169.6	128.5
	63	ORP	mV	185.3	171.9	165.4	186.9	165.1	169.9	129.2
	66	ORP	mV	185.8	172.4	165.8	187.3	165.8	170.3	129.8
	69	ORP	mV	186.5	173.1	166.1	187.7	166.5	170.7	130.4
	72	ORP	mV	186.9	173.7	166.4	188	167.2	171.1	130.9
	75	ORP	mV	187.3	174.1	166.7	188.2	167.9	171.5	131.2
	78	ORP	mV	187.7	174.7	167.3	188.4	169.3	172.2	132
	81	ORP	mV	188.1	175.3	167.7	188.7	169.9	172.7	132.8
	84	ORP	mV	188.5	176.1	168.3	188.9	170.7	173.2	133.8
	87	ORP	mV	188.8	177.2	168.9	189.2	172.4	173.7	134.4
	90	ORP	mV	189.8	178.5	169.7	189.4	173.5	174.2	135.9
	93	ORP	mV	190	179.5	170.5	189.5	174.4	174.7	137.4
	96	ORP	mV	190.5	181.6	171	189.4	175	175.2	138.3
	99	ORP	mV	191.1	182.8	171.9	189.3	176.3	175.7	140
	102	ORP	mV	191.6	184.3	172.6	189.1	177.8	176.4	140.9
	105	ORP	mV	192.4	185.5	173	187.3	178.5	177.3	142.1
	108	ORP	mV	191.9	186.1	173.8	185	179.2	177.4	143.1
	111	ORP	mV	192.1	186.1	173.7	183.8	179.3	177.3	143.4
	114	ORP	mV	191.5	186.3	173.1	182.4	178.8	177.3	143.3
	117	ORP	mV	191.6	185.9	172.6	181	178.6	176.8	143.1
	120	ORP	mV	191.4	185.5	172.2	179.7	178	176.5	142.7
	123	ORP	mV	191.3	185	171.3	178	177.2	175.9	142.6
	126	ORP	mV	190.3	184.6	169.7	177.3	176.5	175.5	142.2
	129	ORP	mV	189.7	183.8	169	176.5	175.8	174.9	142.3
	132	ORP	mV	189.7	183.3	168.7	175.2	175.2	174.3	142
	135	ORP	mV	189.2	182.4	168.1	174.3	174.6	173.8	141.6
	138	ORP	mV	187.3	181.8	166.4	173.4	173.9	173.4	140.6
	141	ORP	mV	184.7	180.9	166	171.8	172.8	172.8	140.2
	144	ORP	mV	182.9	179.6	163.3	170.4	169.1	172.3	140.2
	147	ORP	mV	181.6	177.6	160.2	168.5	166	171.7	139.5

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	150	ORP	mV	180.3	172.3	156.9	166.9	161.3	170.1	138.6
	153	ORP	mV	175.5	169.1	154.7	165.3	159.1	169	137.8
	156	ORP	mV	171.4	167	149.9	163.2	156.1	168.1	136.5
	159	ORP	mV	168.1	164.5	144.4	160.9	153.4	166.1	135.1
	162	ORP	mV		161.3	139.1	158.3	150.1	162.3	132.4
	165	ORP	mV		158.2	136.8	155	146.7	160.2	130.6
	168	ORP	mV		155.1	133.4	152.4	142.5	157	129.5
	171	ORP	mV		151.9	127.5	148.7	138.7	154.1	126.7
	174	ORP	mV			126.7	145.1	135.6	150.9	125.3
	177	ORP	mV			125.3	140.3	131.2	147.9	124.6
	180	ORP	mV			123.4	135		145.3	122.2
	183	ORP	mV			120.1	127.4		143	119.8
	186	ORP	mV				117			
	0	pH	S.U.	7.96	8.02	7.81	7.75	8.03	8.03	7.89
	3	pH	S.U.	7.94	8.01	7.81	7.74	8.03	8.04	7.9
	6	pH	S.U.	7.94	8.02	7.81	7.73	8.03	8.04	7.91
	9	pH	S.U.	7.92	8.02	7.8	7.73	8.01	8.03	7.88
	12	pH	S.U.	7.92	7.97	7.79	7.73	7.96	7.94	7.85
	15	pH	S.U.	7.83	7.87	7.79	7.73	7.87	7.9	7.82
	18	pH	S.U.	7.8	7.83	7.73	7.72	7.85	7.85	7.78
	21	pH	S.U.	7.78	7.81	7.71	7.71	7.82	7.81	7.76
	24	pH	S.U.	7.76	7.71	7.7	7.7	7.8	7.79	7.74
	27	pH	S.U.	7.74	7.76	7.69	7.69	7.78	7.77	7.73
	30	pH	S.U.	7.71	7.72	7.68	7.68	7.76	7.75	7.72
	33	pH	S.U.	7.69	7.7	7.66	7.66	7.74	7.74	7.69
	36	pH	S.U.	7.67	7.68	7.64	7.64	7.72	7.72	7.68
	39	pH	S.U.	7.64	7.66	7.62	7.63	7.71	7.69	7.65
	42	pH	S.U.	7.61	7.64	7.61	7.63	7.68	7.65	7.61
	45	pH	S.U.	7.59	7.61	7.58	7.6	7.65	7.62	7.6
	48	pH	S.U.	7.57	7.59	7.57	7.57	7.6	7.6	7.58
	51	pH	S.U.	7.54	7.56	7.56	7.56	7.59	7.57	7.57
	54	pH	S.U.	7.53	7.54	7.55	7.53	7.56	7.55	7.55
	57	pH	S.U.	7.52	7.55	7.52	7.51	7.55	7.53	7.53
	60	pH	S.U.	7.51	7.53	7.5	7.5	7.54	7.51	7.52
	63	pH	S.U.	7.49	7.52	7.48	7.48	7.53	7.5	7.5
	66	pH	S.U.	7.48	7.51	7.47	7.46	7.52	7.5	7.49
	69	pH	S.U.	7.47	7.5	7.47	7.45	7.51	7.48	7.48
	72	pH	S.U.	7.46	7.49	7.46	7.44	7.5	7.47	7.47
	75	pH	S.U.	7.45	7.48	7.45	7.43	7.49	7.46	7.47
	78	pH	S.U.	7.43	7.47	7.44	7.42	7.47	7.45	7.45
	81	pH	S.U.	7.42	7.46	7.43	7.41	7.46	7.43	7.44
	84	pH	S.U.	7.41	7.45	7.41	7.4	7.45	7.41	7.42
	87	pH	S.U.	7.4	7.42	7.39	7.39	7.42	7.4	7.41
	90	pH	S.U.	7.37	7.4	7.36	7.37	7.4	7.38	7.38
	93	pH	S.U.	7.35	7.38	7.33	7.36	7.39	7.37	7.35
	96	pH	S.U.	7.34	7.35	7.32	7.33	7.38	7.36	7.33
	99	pH	S.U.	7.33	7.34	7.3	7.29	7.35	7.35	7.3
	102	pH	S.U.	7.32	7.32	7.27	7.27	7.33	7.33	7.29
	105	pH	S.U.	7.29	7.3	7.24	7.23	7.31	7.3	7.27
	108	pH	S.U.	7.27	7.29	7.23	7.24	7.29	7.29	7.26
	111	pH	S.U.	7.27	7.29	7.22	7.24	7.29	7.28	7.26
	114	pH	S.U.	7.28	7.3	7.24	7.26	7.31	7.28	7.27
	117	pH	S.U.	7.28	7.31	7.25	7.28	7.32	7.3	7.28
	120	pH	S.U.	7.28	7.32	7.26	7.29	7.33	7.3	7.29
	123	pH	S.U.	7.29	7.33	7.28	7.31	7.35	7.32	7.3
	126	pH	S.U.	7.31	7.34	7.3	7.32	7.37	7.32	7.31
	129	pH	S.U.	7.32	7.36	7.31	7.32	7.37	7.34	7.31
	132	pH	S.U.	7.33	7.38	7.31	7.34	7.38	7.35	7.33
	135	pH	S.U.	7.34	7.38	7.32	7.35	7.4	7.37	7.35
	138	pH	S.U.	7.39	7.39	7.35	7.35	7.41	7.37	7.38
	141	pH	S.U.	7.44	7.4	7.35	7.36	7.43	7.39	7.39
	144	pH	S.U.	7.45	7.43	7.38	7.37	7.46	7.4	7.4
	147	pH	S.U.	7.46	7.45	7.39	7.38	7.48	7.41	7.41
	150	pH	S.U.	7.47	7.48	7.44	7.39	7.5	7.42	7.43
	153	pH	S.U.	7.48	7.49	7.42	7.4	7.5	7.45	7.44
	156	pH	S.U.	7.5	7.5	7.43	7.42	7.5	7.46	7.45
	159	pH	S.U.	7.51	7.51	7.44	7.43	7.51	7.47	7.46
	162	pH	S.U.		7.51	7.45	7.45	7.52	7.49	7.49
	165	pH	S.U.		7.52	7.45	7.46	7.53	7.5	7.49
	168	pH	S.U.		7.52	7.45	7.47	7.53	7.51	7.48
	171	pH	S.U.		7.52	7.45	7.48	7.54	7.52	7.5
	174	pH	S.U.			7.44	7.49	7.54	7.52	7.51
	177	pH	S.U.			7.44	7.5	7.54	7.52	7.49
	180	pH	S.U.			7.44	7.5		7.53	7.49
	183	pH	S.U.			7.44	7.52		7.53	7.52
	186	pH	S.U.				7.52			
	0	Specific Conductance	umhos/cm @ 25 degrees C	502	500	503	503	502	502	501
	3	Specific Conductance	umhos/cm @ 25 degrees C	502	500	502	503	502	502	502
	6	Specific Conductance	umhos/cm @ 25 degrees C	502	500	502	504	502	502	502
	9	Specific Conductance	umhos/cm @ 25 degrees C	502	500	503	504	502	502	503
	12	Specific Conductance	umhos/cm @ 25 degrees C	502	501	503	504	503	503	503
	15	Specific Conductance	umhos/cm @ 25 degrees C	504	502	503	504	504	503	503
	18	Specific Conductance	umhos/cm @ 25 degrees C	505	504	504	504	505	504	504
	21	Specific Conductance	umhos/cm @ 25 degrees C	505	504	504	504	505	505	504
	24	Specific Conductance	umhos/cm @ 25 degrees C	506	505	505	505	506	505	505
	27	Specific Conductance	umhos/cm @ 25 degrees C	506	506	505	505	506	506	505
	30	Specific Conductance	umhos/cm @ 25 degrees C	508	506	506	506	507	506	506
	33	Specific Conductance	umhos/cm @ 25 degrees C	508	508	507	508	507	507	507
	36	Specific Conductance	umhos/cm @ 25 degrees C	509	509	508	510	508	509	509
	39	Specific Conductance	umhos/cm @ 25 degrees C	511	510	509	509	510	510	509
	42	Specific Conductance	umhos/cm @ 25 degrees C	514	513	511	511	511	513	512
	45	Specific Conductance	umhos/cm @ 25 degrees C	516	516	514	514	514	514	513
	48	Specific Conductance	umhos/cm @ 25 degrees C	519	519	515	518	517	517	515
	51	Specific Conductance	umhos/cm @ 25 degrees C	523	523	517	519	520	521	517
	54	Specific Conductance	umhos/cm @ 25 degrees C	525	526	518	524	524	526	521
	57	Specific Conductance	umhos/cm @ 25 degrees C	526	527	524	527	525	528	523
	60	Specific Conductance	umhos/cm @ 25 degrees C	528	529	525	528	526	529	525
	63	Specific Conductance	umhos/cm @ 25 degrees C	530	529	528	532	528	530	527
	66	Specific Conductance	umhos/cm @ 25 degrees C	531	531	530	533	529	532	529
	69	Specific Conductance	umhos/cm @ 25 degrees C	534	531	530	533	531	534	530
	72	Specific Conductance	umhos/cm @ 25 degrees C	535	533	532	535	532	535	531
	75	Specific Conductance	umhos/cm @ 25 degrees C	537	534	533	536	534	536	532
	78	Specific Conductance	umhos/cm @ 25 degrees C	538	536	534	537	536	540	534
	81	Specific Conductance	umhos/cm @ 25 degrees C	541	537	536	540	538	543	536
	84	Specific Conductance	umhos/cm @ 25 degrees C	545	539	539	540	542	547	539
	87	Specific Conductance	umhos/cm @ 25 degrees C	547	546	543	542	547	550	542
	90	Specific Conductance	umhos/cm @ 25 degrees C	553	550	552	547	550	555	549

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	93	Specific Conductance	umhos/cm @ 25 degrees C	556	558	560	551	556	558	567
	96	Specific Conductance	umhos/cm @ 25 degrees C	561	565	564	558	560	561	570
	99	Specific Conductance	umhos/cm @ 25 degrees C	564	575	574	575	570	565	576
	102	Specific Conductance	umhos/cm @ 25 degrees C	572	589	590	578	591	576	586
	105	Specific Conductance	umhos/cm @ 25 degrees C	617	614	619	615	604	600	599
	108	Specific Conductance	umhos/cm @ 25 degrees C	636	630	633	645	630	617	629
	111	Specific Conductance	umhos/cm @ 25 degrees C	650	645	647	650	650	628	658
	114	Specific Conductance	umhos/cm @ 25 degrees C	657	660	652	666	663	646	668
	117	Specific Conductance	umhos/cm @ 25 degrees C	662	666	658	674	674	659	669
	120	Specific Conductance	umhos/cm @ 25 degrees C	665	671	662	678	681	671	672
	123	Specific Conductance	umhos/cm @ 25 degrees C	670	676	682	684	685	675	676
	126	Specific Conductance	umhos/cm @ 25 degrees C	676	680	683	688	689	680	681
	129	Specific Conductance	umhos/cm @ 25 degrees C	680	686	688	692	692	689	684
	132	Specific Conductance	umhos/cm @ 25 degrees C	690	689	691	696	699	694	698
	135	Specific Conductance	umhos/cm @ 25 degrees C	698	697	698	699	701	699	704
	138	Specific Conductance	umhos/cm @ 25 degrees C	707	701	706	701	706	701	708
	141	Specific Conductance	umhos/cm @ 25 degrees C	722	710	706	702	715	705	711
	144	Specific Conductance	umhos/cm @ 25 degrees C	726	715	716	705	725	708	717
	147	Specific Conductance	umhos/cm @ 25 degrees C	728	724	721	713	727	712	719
	150	Specific Conductance	umhos/cm @ 25 degrees C	731	728	726	715	729	723	721
	153	Specific Conductance	umhos/cm @ 25 degrees C	733	731	728	717	730	725	725
	156	Specific Conductance	umhos/cm @ 25 degrees C	737	732	734	724	731	727	728
	159	Specific Conductance	umhos/cm @ 25 degrees C	737	733	736	728	733	730	733
	162	Specific Conductance	umhos/cm @ 25 degrees C		735	736	731	735	732	735
	165	Specific Conductance	umhos/cm @ 25 degrees C		735	738	734	736	736	735
	168	Specific Conductance	umhos/cm @ 25 degrees C		735	741	734	737	737	736
	171	Specific Conductance	umhos/cm @ 25 degrees C		736	740	737	738	737	737
	174	Specific Conductance	umhos/cm @ 25 degrees C			737	738	738	738	738
	177	Specific Conductance	umhos/cm @ 25 degrees C			739	738	739	738	738
	180	Specific Conductance	umhos/cm @ 25 degrees C			738	740		739	738
	183	Specific Conductance	umhos/cm @ 25 degrees C			740	742		739	739
	186	Specific Conductance	umhos/cm @ 25 degrees C				742			
	0	Temperature	Celsius	10.1	9.26	6.36	6.88	9.54	9.68	9.29
	3	Temperature	Celsius	8.7	9.25	6.32	6.03	9.45	9.66	8.69
	6	Temperature	Celsius	8.49	9.21	6.33	5.73	9.37	9.61	8.56
	9	Temperature	Celsius	8.22	9.07	6.24	5.66	9.12	9.51	8.03
	12	Temperature	Celsius	8.16	8.91	6.24	5.61	8.11	8.44	7.32
	15	Temperature	Celsius	6.96	7.79	6.1	5.55	7.44	8.26	6.9
	18	Temperature	Celsius	6.48	6.84	5.54	5.39	7.01	7.06	6.56
	21	Temperature	Celsius	6.37	6.6	5.45	5.3	6.6	6.64	6.29
	24	Temperature	Celsius	5.97	6.28	5.19	5.1	6.31	6.33	6.15
	27	Temperature	Celsius	5.78	6.03	5.12	4.97	6.04	6.14	6.01
	30	Temperature	Celsius	5.45	5.65	5	4.84	5.78	5.91	5.84
	33	Temperature	Celsius	5.15	5.25	4.73	4.64	5.54	5.67	5.35
	36	Temperature	Celsius	4.92	5.12	4.45	4.44	5.35	5.3	5.02
	39	Temperature	Celsius	4.51	4.68	4.26	4.39	4.89	4.78	4.63
	42	Temperature	Celsius	4.28	4.27	4.16	4.22	4.63	4.36	4.21
	45	Temperature	Celsius	4.12	4.01	4.02	4.02	4.33	4.15	4.13
	48	Temperature	Celsius	3.95	3.92	3.98	3.83	4.12	4.02	4.04
	51	Temperature	Celsius	3.77	3.76	3.89	3.79	3.9	3.86	3.95
	54	Temperature	Celsius	3.7	3.69	3.86	3.62	3.74	3.7	3.82
	57	Temperature	Celsius	3.64	3.67	3.7	3.53	3.72	3.66	3.73
	60	Temperature	Celsius	3.59	3.59	3.64	3.51	3.69	3.6	3.65
	63	Temperature	Celsius	3.56	3.59	3.58	3.5	3.67	3.58	3.59
	66	Temperature	Celsius	3.55	3.57	3.57	3.5	3.61	3.57	3.58
	69	Temperature	Celsius	3.55	3.57	3.54	3.51	3.58	3.57	3.55
	72	Temperature	Celsius	3.56	3.56	3.54	3.52	3.58	3.55	3.53
	75	Temperature	Celsius	3.57	3.56	3.54	3.54	3.57	3.57	3.55
	78	Temperature	Celsius	3.58	3.56	3.54	3.55	3.57	3.59	3.55
	81	Temperature	Celsius	3.6	3.57	3.55	3.57	3.59	3.61	3.57
	84	Temperature	Celsius	3.62	3.59	3.57	3.58	3.61	3.64	3.59
	87	Temperature	Celsius	3.64	3.63	3.6	3.59	3.64	3.66	3.6
	90	Temperature	Celsius	3.68	3.67	3.69	3.64	3.67	3.7	3.65
	93	Temperature	Celsius	3.71	3.71	3.73	3.67	3.7	3.71	3.72
	96	Temperature	Celsius	3.74	3.76	3.76	3.72	3.73	3.73	3.78
	99	Temperature	Celsius	3.75	3.82	3.82	3.84	3.79	3.76	3.84
	102	Temperature	Celsius	3.8	3.9	3.91	3.86	3.91	3.84	3.89
	105	Temperature	Celsius	3.97	4.02	4.05	4.05	3.97	3.97	3.95
	108	Temperature	Celsius	4.13	4.1	4.12	4.18	4.1	4.04	4.1
	111	Temperature	Celsius	4.2	4.17	4.2	4.22	4.2	4.08	4.25
	114	Temperature	Celsius	4.23	4.25	4.22	4.3	4.26	4.17	4.3
	117	Temperature	Celsius	4.26	4.28	4.25	4.35	4.33	4.24	4.31
	120	Temperature	Celsius	4.28	4.31	4.27	4.37	4.36	4.31	4.33
	123	Temperature	Celsius	4.3	4.34	4.38	4.39	4.39	4.34	4.35
	126	Temperature	Celsius	4.33	4.36	4.38	4.41	4.4	4.37	4.37
	129	Temperature	Celsius	4.36	4.39	4.41	4.43	4.42	4.41	4.39
	132	Temperature	Celsius	4.41	4.41	4.42	4.45	4.45	4.43	4.46
	135	Temperature	Celsius	4.45	4.45	4.46	4.46	4.47	4.45	4.48
	138	Temperature	Celsius	4.5	4.47	4.49	4.47	4.49	4.46	4.51
	141	Temperature	Celsius	4.57	4.52	4.5	4.47	4.54	4.49	4.52
	144	Temperature	Celsius	4.6	4.54	4.54	4.49	4.59	4.5	4.55
	147	Temperature	Celsius	4.61	4.58	4.56	4.52	4.6	4.52	4.56
	150	Temperature	Celsius	4.62	4.6	4.6	4.53	4.61	4.58	4.57
	153	Temperature	Celsius	4.64	4.63	4.6	4.55	4.61	4.59	4.59
	156	Temperature	Celsius	4.67	4.63	4.63	4.58	4.63	4.6	4.61
	159	Temperature	Celsius	4.67	4.64	4.65	4.6	4.64	4.62	4.64
	162	Temperature	Celsius		4.65	4.65	4.62	4.65	4.64	4.68
	165	Temperature	Celsius		4.65	4.66	4.64	4.66	4.66	4.66
	168	Temperature	Celsius		4.65	4.67	4.64	4.67	4.67	4.66
	171	Temperature	Celsius		4.66	4.67	4.66	4.67	4.67	4.68
	174	Temperature	Celsius			4.68	4.67	4.67	4.67	4.68
	177	Temperature	Celsius			4.68	4.68	4.68	4.67	4.68
	180	Temperature	Celsius			4.68	4.69		4.68	4.69
	183	Temperature	Celsius			4.68	4.71		4.69	4.69
	186	Temperature	Celsius				4.72			
7/1/2008	0	Dissolved Oxygen	mg/L	8.57	8.61	8.31	8.6	7.97	8.21	8.54
	3	Dissolved Oxygen	mg/L	8.65	8.61	8.56	8.72	7.96	8.23	8.56
	6	Dissolved Oxygen	mg/L	8.66	8.59	8.61	8.82	8.55	8.2	8.59
	9	Dissolved Oxygen	mg/L	8.58	8.7	8.7	8.9	8.55	8.46	8.6
	12	Dissolved Oxygen	mg/L	8.85	8.95	8.76	9.03	8.55	8.47	8.59
	15	Dissolved Oxygen	mg/L	9.28	9.28	9.21	9.14	8.55	8.64	9.36
	18	Dissolved Oxygen	mg/L	9.98	9.89	10.12	10.65	9.52	9.36	10.09
	21	Dissolved Oxygen	mg/L	10.06	10.23	10.29	10.98	10.2	10.04	10.32
	24	Dissolved Oxygen	mg/L	10.38	10.41	10.48	11.11	10.33	10.33	10.47
	27	Dissolved Oxygen	mg/L	10.47	10.39	10.5	11.17	10.39	10.24	10.45
	30	Dissolved Oxygen	mg/L	10.2	10.31	10	11.17	10.31	10.19	10.36
	33	Dissolved Oxygen	mg/L	10.04	10.19	10.02	10.95	10.27	10.16	10.2

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	36	Dissolved Oxygen	mg/L	9.81	10	9.93	10.82	10.28	10.01	10.06
	39	Dissolved Oxygen	mg/L	9.59	9.8	9.89	10.76	10.07	9.92	9.93
	42	Dissolved Oxygen	mg/L	9.35	9.59	9.43	10.64	9.96	9.55	9.69
	45	Dissolved Oxygen	mg/L	9.22	9.36	9.34	10.16	9.81	9.38	9.52
	48	Dissolved Oxygen	mg/L	9	9.06	9.17	9.95	9.63	9.22	9.2
	51	Dissolved Oxygen	mg/L	8.84	8.94	8.99	9.73	9.59	9.07	9.02
	54	Dissolved Oxygen	mg/L	8.72	8.77	8.76	9.67	9.14	9.03	8.74
	57	Dissolved Oxygen	mg/L	8.58	8.48	8.57	9.43	8.93	8.71	8.65
	60	Dissolved Oxygen	mg/L	8.34	8.43	8.34	9.35	8.79	8.59	8.36
	63	Dissolved Oxygen	mg/L	8.25	8.37	8.29	9.3	8.7	8.42	8.33
	66	Dissolved Oxygen	mg/L	8.11	8.24	8.18	9.19	8.41	8.28	8.13
	69	Dissolved Oxygen	mg/L	7.95	8.06	8.04	8.69	8.2	8.07	7.98
	72	Dissolved Oxygen	mg/L	7.92	7.92	7.91	8.32	8.01	7.9	7.85
	75	Dissolved Oxygen	mg/L	7.77	7.59	7.72	7.98	7.85	7.66	7.78
	78	Dissolved Oxygen	mg/L	7.48	6.99	7.46	7.68	7.67	7.5	7.71
	81	Dissolved Oxygen	mg/L	7.22	6.5	7.37	7.2	7.63	6.88	6.54
	84	Dissolved Oxygen	mg/L	6.55	6.17	6.43	6.77	6.8	6.46	5.97
	87	Dissolved Oxygen	mg/L	6.08	5.74	6.11	6.23	6.28	6.08	5.9
	90	Dissolved Oxygen	mg/L	5.47	5.39	5.51	5.84	5.83	5.58	5.28
	93	Dissolved Oxygen	mg/L	4.96	4.91	5.01	5.37	5.5	5.36	4.8
	96	Dissolved Oxygen	mg/L	4.24	4.19	4.3	4.85	5.34	4.49	3.94
	99	Dissolved Oxygen	mg/L	3.34	3.13	3.31	4	3.95	3.96	3.46
	102	Dissolved Oxygen	mg/L	2.05	2.44	2.62	3.2	3.22	3.12	2.55
	105	Dissolved Oxygen	mg/L	1.38	1.55	1.65	2.3	2.72	1.68	1.61
	108	Dissolved Oxygen	mg/L	0.8	1	1.15	1.69	1.08	0.8	1.07
	111	Dissolved Oxygen	mg/L	0.3	0.8	0.6	1.41	0.8	0.6	<0.1
	114	Dissolved Oxygen	mg/L	0.2	0.3	<0.1	1.12	0.3	0.2	<0.1
	117	Dissolved Oxygen	mg/L	0.2	<0.1	<0.1	0.2	0.1	0.2	<0.1
	120	Dissolved Oxygen	mg/L	0.2	<0.1	<0.1	0.2	0.1	0.2	<0.1
	123	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	0.2	<0.1
	126	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	0.2	<0.1
	129	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	132	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	135	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	138	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	141	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	144	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	147	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	150	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	153	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	156	Dissolved Oxygen	mg/L	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	159	Dissolved Oxygen	mg/L		<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	162	Dissolved Oxygen	mg/L		<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	165	Dissolved Oxygen	mg/L		<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	168	Dissolved Oxygen	mg/L		<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	171	Dissolved Oxygen	mg/L		<0.1	<0.1	<0.1	0.1	<0.1	<0.1
	174	Dissolved Oxygen	mg/L			<0.1	<0.1	<0.1		<0.1
	177	Dissolved Oxygen	mg/L			<0.1	<0.1	<0.1		<0.1
	180	Dissolved Oxygen	mg/L			<0.1	<0.1			
	183	Dissolved Oxygen	mg/L			<0.1	<0.1			
	186	Dissolved Oxygen	mg/L				<0.1			
	0	ORP	mV	58	96.2	64.6	129	116	182.4	96
	3	ORP	mV	67.1	96.2	102.1	128.2	115.8	179.5	96
	6	ORP	mV	72.2	96	102.8	128.2	120	177.4	96.6
	9	ORP	mV	75.5	99.7	103.3	128.3	120.4	173.5	97.1
	12	ORP	mV	79.6	105.5	104.2	128.5	122	172.6	97.4
	15	ORP	mV	88	107.1	106.7	128.9	123.5	175.7	106.3
	18	ORP	mV	95.9	111.2	112.5	138.2	131.9	181.2	112.8
	21	ORP	mV	101.8	117.2	114.6	144.4	138.8	186.5	115.9
	24	ORP	mV	105.4	120.1	117.2	147.2	142.6	189.5	119.1
	27	ORP	mV	107.2	121.1	117.3	149.6	145.1	191.2	121.4
	30	ORP	mV	109.2	122.2	118.9	150.9	148.7	192.1	122.7
	33	ORP	mV	110.9	123	119.3	153	149.6	192.8	124.6
	36	ORP	mV	112.8	124	119.9	154.3	150.7	193.5	125.4
	39	ORP	mV	114.4	125.2	120.5	155.4	152.1	194.1	126.1
	42	ORP	mV	117.2	126.4	122.4	156.5	153.4	194.9	127.5
	45	ORP	mV	118.2	127.3	122.7	157.7	154.2	195.6	128.5
	48	ORP	mV	119.6	128.1	123.2	158.8	155.6	196.1	130
	51	ORP	mV	120.7	128.7	124	160.1	156.4	196.4	130.7
	54	ORP	mV	121.7	129.5	124.4	160.7	157.1	196.8	132.4
	57	ORP	mV	122.5	130.8	125.1	161.2	158.2	197.1	132.7
	60	ORP	mV	123.4	131.1	125.8	161.7	158.9	197.3	134
	63	ORP	mV	124.6	131.4	126.2	162.1	159.8	197.7	134.5
	66	ORP	mV	125.3	132	126.5	162.6	160.3	198	135.2
	69	ORP	mV	126.2	132.4	127.2	163.1	161	198.5	135.5
	72	ORP	mV	127.1	132.8	127.6	163.6	161.5	198.9	135.9
	75	ORP	mV	127.8	133.2	128	164	162	199.3	136.7
	78	ORP	mV	128.4	134.2	128.4	164.5	162.9	199.6	137.4
	81	ORP	mV	129	135	128.8	165.1	163.3	200	139.1
	84	ORP	mV	129.6	135.5	129.5	165.6	164.2	200.2	140.2
	87	ORP	mV	130.3	136.1	130.2	166.5	164.9	200.5	140.8
	90	ORP	mV	131.3	136.6	130.6	167.3	165.5	201.2	141.4
	93	ORP	mV	132	137.1	131.1	167.7	166.3	201.3	141.9
	96	ORP	mV	132.8	137.6	131.5	168.5	166.9	201.7	142.7
	99	ORP	mV	133.4	138.3	132	168.9	167.6	202.2	143.3
	102	ORP	mV	133.9	138.5	132.4	169.5	168.2	202.2	143.8
	105	ORP	mV	134.2	138.8	132.5	169.9	168.5	202.3	143.9
	108	ORP	mV	134.3	139	132.2	170.1	167.8	202.3	144.1
	111	ORP	mV	134.4	139.3	132.8	170.2	168	201.8	144.1
	114	ORP	mV	134.2	139.1	132.5	169.9	167.7	201.6	144.1
	117	ORP	mV	134.1	139	131.9	169.4	167.7	200.2	143.9
	120	ORP	mV	133.9	138.4	131.9	169.2	167	200.1	143.5
	123	ORP	mV	133.5	138.3	131.8	168.6	166.8	200	143.3
	126	ORP	mV	133	138	131.8	168.5	166.7	199.3	142.7
	129	ORP	mV	132.7	137.8	131.5	167.8	166.1	198.9	142.5
	132	ORP	mV	132.3	137.2	130.9	167.6	165.8	198.8	142
	135	ORP	mV	132	136.8	130.3	166.9	165.2	198.4	141.7
	138	ORP	mV	131.6	136.5	129.6	166.5	164.9	197.7	141.3
	141	ORP	mV	130.8	136	128.3	165.7	163.8	196.9	140.8
	144	ORP	mV	130.5	135.5	127.3	165.1	163	195.9	140.2
	147	ORP	mV	129.8	135	126.8	164.1	161.9	195	139.5
	150	ORP	mV	129.3	133.8	126.6	163.7	160.6	193.4	138.9
	153	ORP	mV	128.7	132	125	162.7	159.3	189.8	138.3
	156	ORP	mV	128.1	131.1	124.3	161.1	158.1	188.8	137.4
	159	ORP	mV		130.2	123.4	159.2	157.6	187.2	136.5
	162	ORP	mV		129.6	121.9	156.9	156.2	184.9	136
	165	ORP	mV		128.9	121	156.5	155.9	183.7	135.5

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	168	ORP	mV		128.1	120.6	155.2	154.5	184.3	135
	171	ORP	mV		127.6	120.1	154.8	154	183.4	134.1
	174	ORP	mV			118.8	153.9	152.8		132.2
	177	ORP	mV			118.2	152.1	152.4		131.4
	180	ORP	mV			117.7	151.9			
	183	ORP	mV			117.3	150.8			
	186	ORP	mV				147.1			
	0	pH	S.U.	8.3	8.29	8.31	8.26	8.32	8.3	8.35
	3	pH	S.U.	8.3	8.3	8.23	8.28	8.33	8.32	8.36
	6	pH	S.U.	8.28	8.3	8.24	8.29	8.33	8.33	8.36
	9	pH	S.U.	8.24	8.24	8.22	8.29	8.33	8.33	8.36
	12	pH	S.U.	8.21	8.1	8.18	8.29	8.32	8.33	8.35
	15	pH	S.U.	8.05	8.04	8.07	8.27	8.3	8.24	8.15
	18	pH	S.U.	7.94	8.01	7.98	8.15	8.2	8.08	8.04
	21	pH	S.U.	7.79	7.94	7.84	7.92	7.96	7.92	7.95
	24	pH	S.U.	7.73	7.81	7.74	7.82	7.82	7.78	7.88
	27	pH	S.U.	7.69	7.75	7.71	7.74	7.76	7.73	7.79
	30	pH	S.U.	7.66	7.72	7.68	7.69	7.74	7.69	7.76
	33	pH	S.U.	7.63	7.68	7.63	7.64	7.67	7.67	7.7
	36	pH	S.U.	7.6	7.66	7.6	7.6	7.65	7.64	7.68
	39	pH	S.U.	7.57	7.63	7.58	7.58	7.63	7.61	7.66
	42	pH	S.U.	7.52	7.6	7.52	7.55	7.6	7.57	7.65
	45	pH	S.U.	7.51	7.58	7.52	7.52	7.58	7.54	7.6
	48	pH	S.U.	7.49	7.55	7.51	7.49	7.55	7.52	7.57
	51	pH	S.U.	7.47	7.53	7.49	7.45	7.52	7.5	7.55
	54	pH	S.U.	7.46	7.51	7.47	7.43	7.5	7.48	7.51
	57	pH	S.U.	7.45	7.47	7.46	7.42	7.47	7.47	7.5
	60	pH	S.U.	7.44	7.46	7.44	7.41	7.46	7.45	7.49
	63	pH	S.U.	7.42	7.46	7.43	7.4	7.44	7.44	7.47
	66	pH	S.U.	7.41	7.44	7.42	7.39	7.42	7.42	7.45
	69	pH	S.U.	7.4	7.43	7.41	7.37	7.41	7.4	7.44
	72	pH	S.U.	7.38	7.42	7.4	7.36	7.4	7.38	7.43
	75	pH	S.U.	7.37	7.41	7.39	7.35	7.39	7.36	7.42
	78	pH	S.U.	7.35	7.39	7.38	7.33	7.36	7.35	7.4
	81	pH	S.U.	7.34	7.36	7.36	7.32	7.35	7.34	7.38
	84	pH	S.U.	7.34	7.34	7.34	7.3	7.34	7.32	7.35
	87	pH	S.U.	7.32	7.33	7.32	7.28	7.31	7.3	7.33
	90	pH	S.U.	7.31	7.32	7.31	7.26	7.29	7.28	7.31
	93	pH	S.U.	7.29	7.3	7.29	7.24	7.28	7.26	7.3
	96	pH	S.U.	7.28	7.29	7.26	7.23	7.25	7.25	7.28
	99	pH	S.U.	7.25	7.26	7.24	7.21	7.23	7.22	7.26
	102	pH	S.U.	7.24	7.24	7.22	7.19	7.21	7.21	7.25
	105	pH	S.U.	7.23	7.23	7.21	7.18	7.2	7.19	7.24
	108	pH	S.U.	7.23	7.22	7.22	7.17	7.19	7.18	7.23
	111	pH	S.U.	7.22	7.21	7.2	7.17	7.18	7.18	7.23
	114	pH	S.U.	7.22	7.22	7.2	7.17	7.18	7.18	7.21
	117	pH	S.U.	7.24	7.22	7.21	7.18	7.18	7.19	7.22
	120	pH	S.U.	7.24	7.23	7.21	7.19	7.19	7.2	7.23
	123	pH	S.U.	7.25	7.24	7.22	7.2	7.21	7.2	7.24
	126	pH	S.U.	7.27	7.25	7.23	7.21	7.21	7.21	7.25
	129	pH	S.U.	7.28	7.25	7.23	7.22	7.23	7.22	7.26
	132	pH	S.U.	7.29	7.26	7.25	7.24	7.24	7.22	7.29
	135	pH	S.U.	7.31	7.28	7.26	7.26	7.26	7.23	7.28
	138	pH	S.U.	7.32	7.29	7.3	7.27	7.27	7.25	7.3
	141	pH	S.U.	7.35	7.3	7.34	7.29	7.3	7.26	7.31
	144	pH	S.U.	7.36	7.31	7.36	7.31	7.32	7.29	7.33
	147	pH	S.U.	7.37	7.33	7.36	7.32	7.34	7.3	7.34
	150	pH	S.U.	7.38	7.36	7.37	7.33	7.36	7.33	7.36
	153	pH	S.U.	7.39	7.38	7.38	7.34	7.38	7.36	7.37
	156	pH	S.U.	7.4	7.4	7.39	7.36	7.39	7.38	7.39
	159	pH	S.U.		7.42	7.39	7.38	7.39	7.37	7.4
	162	pH	S.U.		7.43	7.41	7.4	7.41	7.4	7.41
	165	pH	S.U.		7.43	7.42	7.39	7.4	7.4	7.41
	168	pH	S.U.		7.44	7.42	7.4	7.42	7.38	7.42
	171	pH	S.U.		7.45	7.42	7.4	7.41	7.38	7.43
	174	pH	S.U.			7.42	7.4	7.42		7.45
	177	pH	S.U.			7.43	7.42	7.41		7.46
	180	pH	S.U.			7.43	7.41			
	183	pH	S.U.			7.43	7.41			
	186	pH	S.U.				7.43			
	0	Specific Conductance	umhos/cm @ 25 degrees C	433	436	435	438	439	440	436
	3	Specific Conductance	umhos/cm @ 25 degrees C	433	436	434	438	439	439	436
	6	Specific Conductance	umhos/cm @ 25 degrees C	433	436	434	438	439	439	436
	9	Specific Conductance	umhos/cm @ 25 degrees C	434	436	434	438	439	439	436
	12	Specific Conductance	umhos/cm @ 25 degrees C	433	433	433	438	439	439	436
	15	Specific Conductance	umhos/cm @ 25 degrees C	430	432	432	438	438	437	433
	18	Specific Conductance	umhos/cm @ 25 degrees C	433	438	434	441	441	442	437
	21	Specific Conductance	umhos/cm @ 25 degrees C	436	438	440	445	443	442	440
	24	Specific Conductance	umhos/cm @ 25 degrees C	440	442	441	445	444	445	441
	27	Specific Conductance	umhos/cm @ 25 degrees C	441	442	441	447	447	447	442
	30	Specific Conductance	umhos/cm @ 25 degrees C	441	443	442	446	447	447	442
	33	Specific Conductance	umhos/cm @ 25 degrees C	443	445	445	449	446	449	444
	36	Specific Conductance	umhos/cm @ 25 degrees C	446	445	446	451	449	451	446
	39	Specific Conductance	umhos/cm @ 25 degrees C	449	448	447	452	451	453	447
	42	Specific Conductance	umhos/cm @ 25 degrees C	450	450	450	454	453	455	449
	45	Specific Conductance	umhos/cm @ 25 degrees C	453	453	452	456	455	458	451
	48	Specific Conductance	umhos/cm @ 25 degrees C	456	455	454	459	458	460	454
	51	Specific Conductance	umhos/cm @ 25 degrees C	457	457	457	461	461	462	456
	54	Specific Conductance	umhos/cm @ 25 degrees C	458	459	459	464	463	463	458
	57	Specific Conductance	umhos/cm @ 25 degrees C	460	461	461	466	465	465	459
	60	Specific Conductance	umhos/cm @ 25 degrees C	463	462	462	467	467	467	463
	63	Specific Conductance	umhos/cm @ 25 degrees C	464	463	464	470	468	469	463
	66	Specific Conductance	umhos/cm @ 25 degrees C	466	465	465	471	470	470	466
	69	Specific Conductance	umhos/cm @ 25 degrees C	467	467	466	472	472	472	467
	72	Specific Conductance	umhos/cm @ 25 degrees C	468	469	468	474	474	474	468
	75	Specific Conductance	umhos/cm @ 25 degrees C	469	471	470	477	475	475	469
	78	Specific Conductance	umhos/cm @ 25 degrees C	471	474	472	478	477	478	471
	81	Specific Conductance	umhos/cm @ 25 degrees C	475	478	475	483	480	481	476
	84	Specific Conductance	umhos/cm @ 25 degrees C	478	481	478	487	484	486	481
	87	Specific Conductance	umhos/cm @ 25 degrees C	482	484	482	491	490	489	481
	90	Specific Conductance	umhos/cm @ 25 degrees C	486	487	488	495	494	494	488
	93	Specific Conductance	umhos/cm @ 25 degrees C	491	492	493	501	498	499	493
	96	Specific Conductance	umhos/cm @ 25 degrees C	499	499	502	510	506	506	502
	99	Specific Conductance	umhos/cm @ 25 degrees C	516	516	515	524	519	518	513
	102	Specific Conductance	umhos/cm @ 25 degrees C	530	526	527	534	528	531	524
	105	Specific Conductance	umhos/cm @ 25 degrees C	543	539	542	548	541	551	535
	108	Specific Conductance	umhos/cm @ 25 degrees C	552	549	543	559	556	564	545

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	111	Specific Conductance	umhos/cm @ 25 degrees C	563	559	558	567	570	574	556
	114	Specific Conductance	umhos/cm @ 25 degrees C	567	567	571	575	577	577	568
	117	Specific Conductance	umhos/cm @ 25 degrees C	575	575	578	581	582	582	572
	120	Specific Conductance	umhos/cm @ 25 degrees C	580	582	582	586	590	586	581
	123	Specific Conductance	umhos/cm @ 25 degrees C	587	583	587	590	595	590	586
	126	Specific Conductance	umhos/cm @ 25 degrees C	595	589	591	597	601	594	595
	129	Specific Conductance	umhos/cm @ 25 degrees C	600	596	597	606	609	599	598
	132	Specific Conductance	umhos/cm @ 25 degrees C	608	603	601	612	614	604	600
	135	Specific Conductance	umhos/cm @ 25 degrees C	613	606	610	616	618	611	606
	138	Specific Conductance	umhos/cm @ 25 degrees C	617	611	619	620	626	619	612
	141	Specific Conductance	umhos/cm @ 25 degrees C	620	618	625	624	631	625	619
	144	Specific Conductance	umhos/cm @ 25 degrees C	622	623	627	629	635	632	622
	147	Specific Conductance	umhos/cm @ 25 degrees C	625	627	630	634	641	638	628
	150	Specific Conductance	umhos/cm @ 25 degrees C	629	636	632	637	644	639	632
	153	Specific Conductance	umhos/cm @ 25 degrees C	630	636	634	641	645	642	635
	156	Specific Conductance	umhos/cm @ 25 degrees C	631	639	636	643	646	645	636
	159	Specific Conductance	umhos/cm @ 25 degrees C		640	638	646	647	647	638
	162	Specific Conductance	umhos/cm @ 25 degrees C		640	640	647	647	647	639
	165	Specific Conductance	umhos/cm @ 25 degrees C		641	641	647	647	647	639
	168	Specific Conductance	umhos/cm @ 25 degrees C		641	641	648	648	648	641
	171	Specific Conductance	umhos/cm @ 25 degrees C		641	642	648	648	649	641
	174	Specific Conductance	umhos/cm @ 25 degrees C			642	649	648		641
	177	Specific Conductance	umhos/cm @ 25 degrees C			642	648	649		641
	180	Specific Conductance	umhos/cm @ 25 degrees C			643	648			
	183	Specific Conductance	umhos/cm @ 25 degrees C			642	648			
	186	Specific Conductance	umhos/cm @ 25 degrees C				650			
	0	Temperature	Celsius	22.02	21.15	21.79	19.9	20.35	20.74	21.34
	3	Temperature	Celsius	21.64	21.14	21.59	19.89	20.3	20.37	21.16
	6	Temperature	Celsius	21.37	21.07	21.4	19.89	20.2	20.25	21.06
	9	Temperature	Celsius	21.23	20.05	20.74	19.87	19.97	19.92	20.98
	12	Temperature	Celsius	20.51	18.65	20.04	19.76	19.92	19.85	20.9
	15	Temperature	Celsius	17.4	17.48	17.6	19.54	19.36	18.39	17.35
	18	Temperature	Celsius	12.86	13.45	12.45	12.7	13.78	14.28	12.6
	21	Temperature	Celsius	10.28	9.96	9.63	10.02	10.33	10.43	10.15
	24	Temperature	Celsius	7.94	8.01	8.14	8.25	8.73	8.48	8.16
	27	Temperature	Celsius	6.95	6.98	6.98	7.35	7.42	7.08	7.13
	30	Temperature	Celsius	6.18	6.19	6.01	6.6	6.88	6.21	6.49
	33	Temperature	Celsius	5.56	5.65	5.56	5.64	6.47	5.7	5.75
	36	Temperature	Celsius	5.03	5.28	5.14	5.16	5.71	5.16	5.45
	39	Temperature	Celsius	4.7	4.84	4.84	4.89	5.15	4.72	5.13
	42	Temperature	Celsius	4.45	4.47	4.41	4.65	4.85	4.42	4.76
	45	Temperature	Celsius	4.26	4.27	4.27	4.38	4.45	4.18	4.4
	48	Temperature	Celsius	4.11	4.16	4.15	4.17	4.24	4.06	4.16
	51	Temperature	Celsius	3.98	4.03	3.96	4	4.06	3.98	4.09
	54	Temperature	Celsius	3.87	3.92	3.87	3.89	3.94	3.91	3.94
	57	Temperature	Celsius	3.81	3.78	3.78	3.79	3.8	3.82	3.89
	60	Temperature	Celsius	3.71	3.71	3.77	3.71	3.76	3.75	3.73
	63	Temperature	Celsius	3.66	3.7	3.68	3.63	3.7	3.7	3.71
	66	Temperature	Celsius	3.66	3.67	3.66	3.63	3.66	3.66	3.64
	69	Temperature	Celsius	3.7	3.66	3.66	3.68	3.65	3.7	3.64
	72	Temperature	Celsius	3.76	3.64	3.63	3.68	3.65	3.68	3.64
	75	Temperature	Celsius	3.75	3.64	3.64	3.65	3.66	3.69	3.75
	78	Temperature	Celsius	3.71	3.65	3.67	3.67	3.66	3.68	3.71
	81	Temperature	Celsius	3.71	3.68	3.66	3.68	3.67	3.69	3.68
	84	Temperature	Celsius	3.72	3.71	3.68	3.71	3.69	3.7	3.72
	87	Temperature	Celsius	3.73	3.73	3.72	3.73	3.73	3.72	3.72
	90	Temperature	Celsius	3.75	3.76	3.75	3.77	3.76	3.77	3.76
	93	Temperature	Celsius	3.78	3.78	3.79	3.81	3.8	3.79	3.79
	96	Temperature	Celsius	3.84	3.84	3.85	3.88	3.85	3.84	3.85
	99	Temperature	Celsius	3.93	3.92	3.92	3.93	3.91	3.91	3.9
	102	Temperature	Celsius	4	3.98	3.98	3.98	3.96	3.97	3.96
	105	Temperature	Celsius	4.07	4.04	4.05	4.06	4.02	4.07	4.02
	108	Temperature	Celsius	4.11	4.09	4.06	4.11	4.1	4.15	4.08
	111	Temperature	Celsius	4.17	4.15	4.15	4.16	4.17	4.2	4.13
	114	Temperature	Celsius	4.2	4.2	4.21	4.2	4.22	4.21	4.18
	117	Temperature	Celsius	4.24	4.24	4.26	4.24	4.25	4.24	4.22
	120	Temperature	Celsius	4.28	4.29	4.29	4.27	4.29	4.27	4.27
	123	Temperature	Celsius	4.32	4.31	4.31	4.3	4.32	4.29	4.31
	126	Temperature	Celsius	4.37	4.33	4.34	4.34	4.36	4.32	4.36
	129	Temperature	Celsius	4.39	4.37	4.36	4.39	4.41	4.34	4.38
	132	Temperature	Celsius	4.44	4.4	4.4	4.42	4.44	4.38	4.39
	135	Temperature	Celsius	4.47	4.43	4.45	4.45	4.47	4.42	4.43
	138	Temperature	Celsius	4.49	4.46	4.5	4.47	4.51	4.46	4.46
	141	Temperature	Celsius	4.51	4.49	4.54	4.5	4.54	4.5	4.5
	144	Temperature	Celsius	4.52	4.52	4.55	4.53	4.57	4.54	4.52
	147	Temperature	Celsius	4.54	4.55	4.57	4.56	4.6	4.57	4.56
	150	Temperature	Celsius	4.57	4.59	4.58	4.58	4.62	4.58	4.58
	153	Temperature	Celsius	4.57	4.61	4.59	4.6	4.63	4.6	4.6
	156	Temperature	Celsius	4.58	4.64	4.61	4.62	4.64	4.62	4.61
	159	Temperature	Celsius		4.65	4.62	4.63	4.64	4.63	4.62
	162	Temperature	Celsius		4.65	4.64	4.64	4.65	4.64	4.63
	165	Temperature	Celsius		4.65	4.65	4.65	4.65	4.65	4.64
	168	Temperature	Celsius		4.65	4.65	4.66	4.66	4.64	4.64
	171	Temperature	Celsius		4.66	4.65	4.66	4.66	4.64	4.65
	174	Temperature	Celsius			4.66	4.66	4.66		4.66
	177	Temperature	Celsius			4.66	4.66	4.67		4.66
	180	Temperature	Celsius			4.67	4.66			
	183	Temperature	Celsius			4.67	4.66			
	186	Temperature	Celsius				4.69			
10/3/2008	0	Dissolved Oxygen	mg/L	10.22	10.82	10.89	10.07	10.18	10.79	9.72
	3	Dissolved Oxygen	mg/L	10.29	10.6	10.89	10.53	10.38	10.77	10.15
	6	Dissolved Oxygen	mg/L	10.25	10.8	10.88	10.1	10.25	10.76	10.19
	9	Dissolved Oxygen	mg/L	10.28	10.78	10.86	10.12	10.25	10.76	10.22
	12	Dissolved Oxygen	mg/L	10.25	10.71	10.87	10.51	10.46	10.74	10.22
	15	Dissolved Oxygen	mg/L	10.3	10.7	10.84	10.12	10.33	10.73	10.22
	18	Dissolved Oxygen	mg/L	10.28	10.68	10.82	10.27	10.23	10.71	10.25
	21	Dissolved Oxygen	mg/L	10.25	10.67	10.81	10.33	10.31	10.73	10.25
	24	Dissolved Oxygen	mg/L	10.25	10.65	10.79	10.29	10.3	10.68	10.27
	27	Dissolved Oxygen	mg/L	10.26	10.58	10.78	10.25	10.45	10.88	10.26
	30	Dissolved Oxygen	mg/L	10.3	10.51	10.77	10.27	10.28	10.7	10.23
	33	Dissolved Oxygen	mg/L	10.28	10.41	10.76	9.98	10.29	10.68	10.23
	36	Dissolved Oxygen	mg/L	9.61	10.02	10.71	9.8	10.31	10.59	9.76
	39	Dissolved Oxygen	mg/L	9.4	9.77	10.6	9.72	9.61	10.4	9.61
	42	Dissolved Oxygen	mg/L	9.1	9.19	10	9.35	9.44	9.75	9.42
	45	Dissolved Oxygen	mg/L	8.91	9	9.78	9.35	9.2	9.38	9.26
	48	Dissolved Oxygen	mg/L	8.99	8.67	9.17	8.76	8.66	9.05	8.68
	51	Dissolved Oxygen	mg/L	8.65	8.22	8.83	8.15	8.62	8.85	8.4

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	54	Dissolved Oxygen	mg/L	8.58	7.8	8.54	8.11	8.41	8.27	8.24
	57	Dissolved Oxygen	mg/L	8.18	7.65	8.13	7.97	7.83	8.02	7.89
	60	Dissolved Oxygen	mg/L	7.83	7.55	7.93	7.73	7.89	7.77	7.6
	63	Dissolved Oxygen	mg/L	7.84	7.51	7.89	7.48	7.36	7.67	7.66
	66	Dissolved Oxygen	mg/L	7.77	7.38	7.67	7.31	7.25	7.57	7.64
	69	Dissolved Oxygen	mg/L	7.71	7.22	7.59	7.32	7.12	7.42	7.48
	72	Dissolved Oxygen	mg/L	7.64	6.87	7.48	7.19	7.03	7.38	7.37
	75	Dissolved Oxygen	mg/L	7.84	6.7	7.32	6.88	6.68	7.24	7.11
	78	Dissolved Oxygen	mg/L	7.35	6.35	6.6	6.44	6.05	6.9	7.13
	81	Dissolved Oxygen	mg/L	6.63	5.44	5.88	5.63	5.35	5.99	6.34
	84	Dissolved Oxygen	mg/L	5.74	4.57	4.96	5.16	4.69	4.93	5.66
	87	Dissolved Oxygen	mg/L	4.88	4.28	4.43	4.25	3.89	4.35	4.52
	90	Dissolved Oxygen	mg/L	4.18	3.94	3.9	3.64	3.56	3.77	4.14
	93	Dissolved Oxygen	mg/L	3.51	3.48	3.36	3.04	3.29	3.56	3.45
	96	Dissolved Oxygen	mg/L	1.9	2.69	2.44	2.46	2.27	2.6	1.98
	99	Dissolved Oxygen	mg/L	1.09	1.89	1.68	1.6	1.44	2.09	1.41
	102	Dissolved Oxygen	mg/L	1	1	1	1	1	1	1
	105	Dissolved Oxygen	mg/L	0.2	0.1	0.1	0.3	0.2	0.1	0.1
	108	Dissolved Oxygen	mg/L	0.2	0.1	0.1	0.1	0.2	0.1	0.1
	111	Dissolved Oxygen	mg/L	0.2	0.1	0.1	<0.1	0.2	0.1	
	114	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	117	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	120	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	0.1
	123	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	126	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	129	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	132	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	0.1
	135	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	138	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	141	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	0.1
	144	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	147	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	150	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	0.1
	153	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	156	Dissolved Oxygen	mg/L	0.1	0.1	0.1	<0.1	<0.1	0.1	
	159	Dissolved Oxygen	mg/L		0.1	0.1	<0.1	<0.1	0.1	0.1
	162	Dissolved Oxygen	mg/L		0.1	0.1	<0.1	<0.1	0.1	
	165	Dissolved Oxygen	mg/L		0.1	0.1	<0.1	<0.1		
	168	Dissolved Oxygen	mg/L		0.1	0.1	<0.1	<0.1		
	171	Dissolved Oxygen	mg/L		0.1	0.1	<0.1	<0.1		0.1
	174	Dissolved Oxygen	mg/L			0.1	<0.1	<0.1		
	177	Dissolved Oxygen	mg/L			0.1	<0.1	<0.1		0.1
	180	Dissolved Oxygen	mg/L			0.1	<0.1			
	183	Dissolved Oxygen	mg/L				<0.1			
	186	Dissolved Oxygen	mg/L				<0.1			
	0	ORP	mV	36.6	165.1	154.5	129.6	-28	233.9	49.9
	3	ORP	mV	47.6	165.5	155.5	128	-23.8	240.7	49.6
	6	ORP	mV	50.5	165	156.2	126.5	-20.9	245.2	50.2
	9	ORP	mV	52.1	164.7	156.7	123.9	-17.5	249.2	51.2
	12	ORP	mV	45.8	164.7	157.1	122.8	-16.8	251.6	52.2
	15	ORP	mV	46.6	164.9	158	121.2	-15.4	253	53.4
	18	ORP	mV	47.3	164.3	158.5	120.8	-14.1	254.8	53.8
	21	ORP	mV	51.1	164.2	159.1	118.4	-14	256.6	53.9
	24	ORP	mV	49.3	163.8	159.8	118.5	-13.6	258	54.9
	27	ORP	mV	51.2	163.6	160	118.8	-13.6	258.7	55.7
	30	ORP	mV	51.4	162.8	160.6	118.8	-13.6	259.4	56.5
	33	ORP	mV	52.7	163.1	161.2	128.7	-13.9	260.5	57.3
	36	ORP	mV	64.3	163.4	162.2	129.2	-18	263.3	69.7
	39	ORP	mV	66.9	168.2	164.3	129.8	6.6	267.4	74.2
	42	ORP	mV	67.9	174.6	175.1	130.2	11.2	281.1	77.3
	45	ORP	mV	68	175.3	179.1	129.7	13.9	287.2	78.1
	48	ORP	mV	67.9	176.5	180.8	128.5	16.2	290.4	80.8
	51	ORP	mV	68.5	176.8	182.5	129.5	17.7	292.2	83.9
	54	ORP	mV	68.8	177.6	183.5	128.6	18.9	295.1	85.9
	57	ORP	mV	71.4	178	185	127.6	20.4	296.6	87.5
	60	ORP	mV	72.8	178.3	185.7	126.6	21.8	297.6	87.5
	63	ORP	mV	75.2	178.1	186.6	123.8	23.6	298.5	88.4
	66	ORP	mV	76	178.1	187.7	122.4	24.4	299.4	91.2
	69	ORP	mV	74.3	177.8	188.6	123.5	25.2	299.6	92.5
	72	ORP	mV	76.3	176.7	189.2	124.6	26.3	300.7	94.2
	75	ORP	mV	76.8	176.4	189.7	125.3	26.9	301	96
	78	ORP	mV	78.6	176	190.2	126.4	26.9	300.7	97.8
	81	ORP	mV	78.9	175.6	191	127.3	27.4	300	99.2
	84	ORP	mV	79.4	173.2	192.2	128.2	27.4	298.9	100.4
	87	ORP	mV	80	173.2	192.7	129	26.2	294.6	102.9
	90	ORP	mV	81.1	173	193.2	127.5	26.4	290.3	103.4
	93	ORP	mV	78.6	172.6	193.7	124.3	25.2	288.5	103.8
	96	ORP	mV	80.7	172.6	194.1	124.4	24.7	283.9	109.2
	99	ORP	mV	78.9	173.2	194.6	125.9	23.9	277	103.5
	102	ORP	mV	79.6	173.3	195.2	127	21.7	271.8	106.8
	105	ORP	mV	79.4	172.8	195.2	126.9	20.1	264.3	106.6
	108	ORP	mV	76.2	172	194.9	125.2	18.8	257.2	106.8
	111	ORP	mV	73.3	171.7	194.4	125.2	17.4	253.1	
	114	ORP	mV	71.4	171.2	193.9	123.9	14.9	245.7	
	117	ORP	mV	70.2	170.6	193.2	122	13.2	242	
	120	ORP	mV	70.7	170.1	192.4	122	11.7	239	105.4
	123	ORP	mV	71.3	169.4	191.9	118	10.4	236.9	
	126	ORP	mV	71	169.6	191.3	114	8.9	234.2	
	129	ORP	mV	70.5	168.9	190.9	113.8	6.6	229.4	
	132	ORP	mV	69.6	168.1	190.4	110.6	5.9	224.9	104.1
	135	ORP	mV	68.8	167.8	190.1	107.6	4	221.8	
	138	ORP	mV	68.3	167.5	189.5	103	2.9	217.7	
	141	ORP	mV	67.1	167.2	188.8	99	1.6	212.6	102.1
	144	ORP	mV	66.3	167	188.4	98.2	-0.1	208.1	
	147	ORP	mV	64.6	166.5	187.9	96.2	-1.5	205.5	
	150	ORP	mV	62.8	166.2	187	93.1	-3.1	202.4	100.6
	153	ORP	mV	61.7	166.1	186.4	92	-4.9	198.2	
	156	ORP	mV	60.6	165.9	185.6	89.7	-6.1	195.3	
	159	ORP	mV		165.5	185	87.9	-9.1	193.6	99.4
	162	ORP	mV		165.2	184.5	86.1	-8.9	192.3	
	165	ORP	mV		164.8	183.9	85.8	-10.4		
	168	ORP	mV		164.5	183.4	84.1	-11.2		
	171	ORP	mV		163.5	183.1	79.2	-11.5		97.2
	174	ORP	mV			182.7	71.9	-12		
	177	ORP	mV			182.1	66.9	-12.2		96.6
	180	ORP	mV			181.5	64.8			
	183	ORP	mV				62.5			

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	186	ORP	mV				61.8			
	0	pH	S.U.	8.16	8.1	8.16	8.04	8.09	8.09	8.11
	3	pH	S.U.	8.21	8.1	8.12	8.16	8.15	8.09	8.21
	6	pH	S.U.	8.22	8.09	8.12	8.21	8.18	8.09	8.24
	9	pH	S.U.	8.22	8.09	8.11	8.24	8.2	8.1	8.25
	12	pH	S.U.	8.19	8.07	8.11	8.24	8.2	8.09	8.26
	15	pH	S.U.	8.18	8.06	8.11	8.26	8.21	8.1	8.26
	18	pH	S.U.	8.2	8.06	8.1	8.25	8.22	8.1	8.26
	21	pH	S.U.	8.19	8.05	8.1	8.26	8.22	8.09	8.27
	24	pH	S.U.	8.19	8.04	8.1	8.26	8.23	8.09	8.27
	27	pH	S.U.	8.2	8.03	8.1	8.26	8.23	8.09	8.27
	30	pH	S.U.	8.21	7.99	8.09	8.24	8.23	8.09	8.27
	33	pH	S.U.	8.19	7.93	8.08	7.88	8.22	8.09	8.27
	36	pH	S.U.	7.89	7.82	8.08	7.78	8.24	8.06	7.96
	39	pH	S.U.	7.74	7.71	8.06	7.74	7.83	8.01	7.83
	42	pH	S.U.	7.65	7.57	7.93	7.69	7.72	7.86	7.75
	45	pH	S.U.	7.62	7.53	7.85	7.67	7.68	7.73	7.71
	48	pH	S.U.	7.61	7.49	7.79	7.62	7.64	7.67	7.66
	51	pH	S.U.	7.6	7.46	7.72	7.59	7.6	7.64	7.59
	54	pH	S.U.	7.59	7.42	7.68	7.55	7.57	7.58	7.57
	57	pH	S.U.	7.57	7.41	7.6	7.54	7.55	7.54	7.55
	60	pH	S.U.	7.54	7.4	7.58	7.51	7.52	7.52	7.52
	63	pH	S.U.	7.51	7.38	7.54	7.49	7.484	7.49	7.49
	66	pH	S.U.	7.49	7.37	7.5	7.45	7.48	7.48	7.48
	69	pH	S.U.	7.48	7.37	7.47	7.43	7.47	7.46	7.48
	72	pH	S.U.	7.46	7.36	7.46	7.43	7.44	7.45	7.46
	75	pH	S.U.	7.45	7.35	7.44	7.42	7.41	7.43	7.43
	78	pH	S.U.	7.42	7.33	7.42	7.4	7.41	7.41	7.42
	81	pH	S.U.	7.41	7.32	7.4	7.39	7.39	7.39	7.4
	84	pH	S.U.	7.4	7.3	7.36	7.38	7.37	7.37	7.39
	87	pH	S.U.	7.38	7.29	7.34	7.35	7.34	7.33	7.37
	90	pH	S.U.	7.36	7.29	7.32	7.33	7.32	7.31	7.35
	93	pH	S.U.	7.36	7.29	7.3	7.32	7.32	7.3	7.35
	96	pH	S.U.	7.32	7.29	7.28	7.31	7.3	7.28	7.32
	99	pH	S.U.	7.3	7.28	7.27	7.29	7.29	7.27	7.3
	102	pH	S.U.	7.29	7.29	7.25	7.27	7.27	7.25	7.29
	105	pH	S.U.	7.29	7.3	7.24	7.26	7.25	7.24	7.29
	108	pH	S.U.	7.32	7.32	7.24	7.27	7.26	7.25	7.32
	111	pH	S.U.	7.35	7.33	7.24	7.28	7.27	7.26	
	114	pH	S.U.	7.35	7.34	7.25	7.31	7.31	7.28	
	117	pH	S.U.	7.36	7.39	7.27	7.33	7.32	7.29	
	120	pH	S.U.	7.37	7.39	7.28	7.34	7.33	7.3	7.34
	123	pH	S.U.	7.39	7.4	7.29	7.36	7.35	7.3	
	126	pH	S.U.	7.4	7.42	7.31	7.37	7.37	7.31	
	129	pH	S.U.	7.41	7.42	7.32	7.38	7.38	7.33	
	132	pH	S.U.	7.43	7.45	7.33	7.4	7.4	7.35	7.4
	135	pH	S.U.	7.44	7.46	7.34	7.42	7.43	7.36	
	138	pH	S.U.	7.46	7.46	7.36	7.44	7.45	7.39	
	141	pH	S.U.	7.46	7.47	7.38	7.46	7.45	7.41	7.45
	144	pH	S.U.	7.51	7.48	7.39	7.49	7.48	7.43	
	147	pH	S.U.	7.55	7.49	7.4	7.51	7.5	7.45	
	150	pH	S.U.	7.56	7.5	7.43	7.53	7.51	7.47	7.5
	153	pH	S.U.	7.58	7.5	7.44	7.54	7.52	7.49	
	156	pH	S.U.	7.58	7.51	7.46	7.55	7.54	7.5	
	159	pH	S.U.		7.52	7.47	7.55	7.56	7.5	7.54
	162	pH	S.U.		7.53	7.48	7.57	7.56	7.5	
	165	pH	S.U.		7.54	7.5	7.56	7.57		
	168	pH	S.U.		7.54	7.5	7.57	7.57		
	171	pH	S.U.		7.56	7.51	7.58	7.58		7.37
	174	pH	S.U.			7.52	7.58	7.6		
	177	pH	S.U.			7.52	7.59	7.59		7.59
	180	pH	S.U.			7.54	7.59			
	183	pH	S.U.				7.61			
	186	pH	S.U.				7.62			
	0	Specific Conductance	umhos/cm @ 25 degrees C	437	431.4	431.4	433	438	430.8	442
	3	Specific Conductance	umhos/cm @ 25 degrees C	437	431.4	431.4	433	437	431.4	439
	6	Specific Conductance	umhos/cm @ 25 degrees C	437	431.4	431.4	434	437	431.4	438
	9	Specific Conductance	umhos/cm @ 25 degrees C	437	431.4	431.4	434	437	431.4	438
	12	Specific Conductance	umhos/cm @ 25 degrees C	437	431.4	432	434	437	431.4	439
	15	Specific Conductance	umhos/cm @ 25 degrees C	437	432	431.4	434	437	430.8	439
	18	Specific Conductance	umhos/cm @ 25 degrees C	437	432	431.4	434	437	431.4	439
	21	Specific Conductance	umhos/cm @ 25 degrees C	438	432	432	434	437	431.4	439
	24	Specific Conductance	umhos/cm @ 25 degrees C	438	432	431.4	434	437	431.4	438
	27	Specific Conductance	umhos/cm @ 25 degrees C	438	432	431.4	435	437	431.4	439
	30	Specific Conductance	umhos/cm @ 25 degrees C	438	432	432	435	437	431.4	439
	33	Specific Conductance	umhos/cm @ 25 degrees C	438	432.6	432	440	438	431.4	439
	36	Specific Conductance	umhos/cm @ 25 degrees C	447	432.6	432	442	438	432	446
	39	Specific Conductance	umhos/cm @ 25 degrees C	448	436.8	432.6	444	447	433.2	449
	42	Specific Conductance	umhos/cm @ 25 degrees C	450	442.2	441	447	450	442.2	451
	45	Specific Conductance	umhos/cm @ 25 degrees C	452	442.8	445.8	448	452	445.8	452
	48	Specific Conductance	umhos/cm @ 25 degrees C	453	446.4	447.6	452	456	448.2	456
	51	Specific Conductance	umhos/cm @ 25 degrees C	456	451.2	450.6	458	457	450	458
	54	Specific Conductance	umhos/cm @ 25 degrees C	458	455.4	454.2	457	459	456	460
	57	Specific Conductance	umhos/cm @ 25 degrees C	462	458.4	456	459	463	458.4	464
	60	Specific Conductance	umhos/cm @ 25 degrees C	464	460.2	457.8	461	465	460.2	466
	63	Specific Conductance	umhos/cm @ 25 degrees C	465	460.8	459.6	463	467	461.4	467
	66	Specific Conductance	umhos/cm @ 25 degrees C	467	462	462	465	469	462.6	468
	69	Specific Conductance	umhos/cm @ 25 degrees C	468	463.2	463.2	465	469	463.2	469
	72	Specific Conductance	umhos/cm @ 25 degrees C	469	465.6	464.4	466	471	463.8	471
	75	Specific Conductance	umhos/cm @ 25 degrees C	470	466.8	465	468	472	465.6	472
	78	Specific Conductance	umhos/cm @ 25 degrees C	471	467.4	469.2	470	475	468	472
	81	Specific Conductance	umhos/cm @ 25 degrees C	474	471	472.8	473	478	472.2	476
	84	Specific Conductance	umhos/cm @ 25 degrees C	477	475.8	477	476	481	475.8	480
	87	Specific Conductance	umhos/cm @ 25 degrees C	482	478.8	480	480	485	480	485
	90	Specific Conductance	umhos/cm @ 25 degrees C	488	483	484.2	485	489	486	488
	93	Specific Conductance	umhos/cm @ 25 degrees C	490	486.6	489	489	492	489	492
	96	Specific Conductance	umhos/cm @ 25 degrees C	507	498	498	494	499	496.2	506
	99	Specific Conductance	umhos/cm @ 25 degrees C	518	514.8	508.4	506	509	499.8	514
	102	Specific Conductance	umhos/cm @ 25 degrees C	529	525	519	525	526	516.6	531
	105	Specific Conductance	umhos/cm @ 25 degrees C	543	531.6	533.4	530	535	533.4	541
	108	Specific Conductance	umhos/cm @ 25 degrees C	546	545.4	543	541	547	545.4	552
	111	Specific Conductance	umhos/cm @ 25 degrees C	562	551.4	549	549	561	553.8	
	114	Specific Conductance	umhos/cm @ 25 degrees C	568	562.8	556.8	560	569	559.8	
	117	Specific Conductance	umhos/cm @ 25 degrees C	575	567	562.8	566	576	564.6	
	120	Specific Conductance	umhos/cm @ 25 degrees C	580	574.2	573.6	565	580	567.6	580
	123	Specific Conductance	umhos/cm @ 25 degrees C	584	580.2	577.8	579	586	570	
	126	Specific Conductance	umhos/cm @ 25 degrees C	590	587.4	583.8	589	591	576.6	

Prepared by: MCC2
Checked by: SVF

Table H-2
HTDF Pit Profile Data

Event Date	Sample Depth (ft)	Parameter	Units	HPL-001	HPL-002	HPL-003	HPL-004	HPL-005	HPL-006	HPL-007
	129	Specific Conductance	umhos/cm @ 25 degrees C	593	593.4	588	589	598	583.8	
	132	Specific Conductance	umhos/cm @ 25 degrees C	601	596.4	593.4	598	605	590.4	602
	135	Specific Conductance	umhos/cm @ 25 degrees C	605	603.6	597.6	603	610	594	
	138	Specific Conductance	umhos/cm @ 25 degrees C	610	606	602.4	608	615	608.4	
	141	Specific Conductance	umhos/cm @ 25 degrees C	619	609.6	606.6	616	621	612	618
	144	Specific Conductance	umhos/cm @ 25 degrees C	625	613.8	609.6	621	624	617.4	
	147	Specific Conductance	umhos/cm @ 25 degrees C	633	617.4	614.4	624	630	621.6	
	150	Specific Conductance	umhos/cm @ 25 degrees C	636	619.2	618.6	627	632	625.8	631
	153	Specific Conductance	umhos/cm @ 25 degrees C	638	623.4	622.2	630	634	628.2	
	156	Specific Conductance	umhos/cm @ 25 degrees C	638	625.2	626.4	631	637	628.8	
	159	Specific Conductance	umhos/cm @ 25 degrees C		625.8	629.4	632	638	629.4	639
	162	Specific Conductance	umhos/cm @ 25 degrees C		628.2	629.4	633	640	629.4	
	165	Specific Conductance	umhos/cm @ 25 degrees C		629.4	630	633	640		
	168	Specific Conductance	umhos/cm @ 25 degrees C		630	630.6	634	641		
	171	Specific Conductance	umhos/cm @ 25 degrees C		630.6	631.2	633	641		642
	174	Specific Conductance	umhos/cm @ 25 degrees C			631.2	635	641		
	177	Specific Conductance	umhos/cm @ 25 degrees C			632.4	635	641		643
	180	Specific Conductance	umhos/cm @ 25 degrees C			633	636			
	183	Specific Conductance	umhos/cm @ 25 degrees C				640			
	186	Specific Conductance	umhos/cm @ 25 degrees C				640			
	0	Temperature	Celsius	9.97	7.96	7.98	9.82	10.47	8.05	10.16
	3	Temperature	Celsius	10.02	7.93	7.93	10.07	10.47	8.01	10.35
	6	Temperature	Celsius	10	7.93	7.9	10.3	10.48	7.99	10.34
	9	Temperature	Celsius	9.99	7.86	7.89	10.66	10.59	7.99	10.31
	12	Temperature	Celsius	9.95	7.86	7.86	10.68	10.66	7.98	10.31
	15	Temperature	Celsius	9.99	7.67	7.7	10.66	10.56	7.98	10.31
	18	Temperature	Celsius	10.06	7.66	7.69	10.55	10.47	7.98	10.32
	21	Temperature	Celsius	10.01	7.63	7.68	10.9	10.46	7.86	10.34
	24	Temperature	Celsius	10.03	7.61	7.64	10.91	10.39	7.74	10.29
	27	Temperature	Celsius	9.96	7.58	7.62	10.83	10.36	7.7	10.27
	30	Temperature	Celsius	9.95	7.58	7.61	10.78	10.31	7.67	10.27
	33	Temperature	Celsius	9.92	7.51	7.59	8.07	10.37	7.61	10.21
	36	Temperature	Celsius	7.1	7.47	7.56	6.9	10.71	7.46	7.7
	39	Temperature	Celsius	6.5	6.79	7.42	6.35	6.5	7.28	6.84
	42	Temperature	Celsius	6.11	5.72	5.91	5.79	6.11	5.45	6.46
	45	Temperature	Celsius	5.91	5.3	4.89	5.64	5.7	4.76	6.15
	48	Temperature	Celsius	5.81	4.69	4.47	5.39	5.41	4.48	5.8
	51	Temperature	Celsius	5.57	4.16	4.22	5.04	5.28	4.27	5.63
	54	Temperature	Celsius	5.48	3.95	4.02	5.09	5.23	3.93	5.56
	57	Temperature	Celsius	5.29	3.84	3.92	5.02	5.1	3.85	5.46
	60	Temperature	Celsius	5.3	3.81	3.9	5.11	5.05	3.8	5.39
	63	Temperature	Celsius	5.29	3.81	3.8	4.93	5	3.79	5.27
	66	Temperature	Celsius	5.26	3.82	3.78	4.99	4.99	3.79	5.26
	69	Temperature	Celsius	5.29	3.78	3.8	4.96	4.97	3.79	5.2
	72	Temperature	Celsius	5.31	3.75	3.82	4.9	4.93	3.83	5.17
	75	Temperature	Celsius	5.32	3.76	3.83	4.88	4.95	3.84	5.16
	78	Temperature	Celsius	5.35	3.79	3.75	4.84	4.95	3.82	5.15
	81	Temperature	Celsius	5.33	3.8	3.79	4.84	4.92	3.81	5.18
	84	Temperature	Celsius	5.26	3.82	3.8	4.83	4.96	3.81	5.14
	87	Temperature	Celsius	5.28	3.81	3.81	4.87	4.94	3.83	5.1
	90	Temperature	Celsius	5.23	3.87	3.84	4.93	4.94	3.87	5.07
	93	Temperature	Celsius	5.26	3.88	3.87	5.07	4.98	3.88	5.08
	96	Temperature	Celsius	5.29	3.92	3.91	4.97	5	3.92	5.11
	99	Temperature	Celsius	5.36	3.98	3.95	4.9	5.04	3.92	5.12
	102	Temperature	Celsius	5.37	4.02	3.99	4.96	5.1	3.99	5.1
	105	Temperature	Celsius	5.42	4.06	4.06	4.98	5.09	4.07	5.11
	108	Temperature	Celsius	5.38	4.12	4.11	5.03	5.1	4.12	5.14
	111	Temperature	Celsius	5.43	4.14	4.13	5.08	5.16	4.16	
	114	Temperature	Celsius	5.51	4.21	4.17	5.09	5.19	4.19	
	117	Temperature	Celsius	5.49	4.24	4.21	5.15	5.22	4.22	
	120	Temperature	Celsius	5.48	4.29	4.28	5.47	5.2	4.25	5.24
	123	Temperature	Celsius	5.48	4.32	4.3	5.19	5.24	4.27	
	126	Temperature	Celsius	5.49	4.36	4.34	5.25	5.24	4.3	
	129	Temperature	Celsius	5.52	4.39	4.36	5.26	5.28	4.34	
	132	Temperature	Celsius	5.54	4.41	4.4	5.33	5.27	4.38	5.29
	135	Temperature	Celsius	5.51	4.46	4.42	5.41	5.28	4.44	
	138	Temperature	Celsius	5.52	4.47	4.45	5.39	5.27	4.49	
	141	Temperature	Celsius	5.57	4.5	4.48	5.39	5.3	4.52	5.32
	144	Temperature	Celsius	5.56	4.51	4.5	5.33	5.34	4.55	
	147	Temperature	Celsius	5.59	4.54	4.52	5.33	5.35	4.59	
	150	Temperature	Celsius	5.57	4.56	4.55	5.33	5.39	4.61	5.31
	153	Temperature	Celsius	5.59	4.58	4.58	5.33	5.35	4.63	
	156	Temperature	Celsius	5.56	4.6	4.61	5.35	5.36	4.64	
	159	Temperature	Celsius		4.61	4.62	5.37	5.41	4.64	5.34
	162	Temperature	Celsius		4.63	4.62	5.32	5.4	4.65	
	165	Temperature	Celsius		4.64	4.64	5.34	5.38		
	168	Temperature	Celsius		4.64	4.66	5.38	5.49		
	171	Temperature	Celsius		4.66	4.66	5.41	5.46		5.33
	174	Temperature	Celsius			4.67	5.42	5.38		
	177	Temperature	Celsius			4.69	5.42	5.34		5.3
	180	Temperature	Celsius			4.69	5.4			
	183	Temperature	Celsius				5.43			
	186	Temperature	Celsius				5.47			

Note:
ft = feet
mg/L = milligram/Liter
mV = millivolt
ORP = oxidation reduction potential
S.U. = standard unit
umhos/cm @ 25 degrees C = micromhos per centimeter at 25 degrees Celsius