



LABERGE ENVIRONMENTAL
ATTN: Bonnie Burns
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Date Received: 12-SEP-16
Report Date: 29-SEP-16 11:58 (MT)
Version: FINAL

Client Phone: 867-668-6838

Certificate of Analysis

Lab Work Order #: L1829615
Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers: 14-470932, 14-470930
Legal Site Desc:

Brent Mack, B.Sc.
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829615-1	L1829615-2	L1829615-3	L1829615-4	L1829615-5
		Description	Water	Water	Water	Water	Water
		Sampled Date	06-SEP-16	07-SEP-16	06-SEP-16	06-SEP-16	05-SEP-16
		Sampled Time	14:30	09:40	16:30	09:00	13:10
		Client ID	E-1	PORCUPINE CR	E-2	E-3	E-4
Grouping	Analyte						
BIOTA							
Plant Pigments	Chlorophyll a (ug)	70.6	37.4	87.0	26.4	31.9	
	Pheophytin a (ug)	56.0	31.7	75.1	19.6	27.5	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829615-6	L1829615-7	L1829615-9	L1829615-10	L1829615-11
		Description	Water	Water	Water	Water	Water
		Sampled Date	05-SEP-16	08-SEP-16	07-SEP-16	06-SEP-16	05-SEP-16
		Sampled Time	09:30	14:50	15:00	11:30	11:40
		Client ID	E-6	E-8	R-2	R-3	R-4
Grouping	Analyte						
BIOTA							
Plant Pigments	Chlorophyll a (ug)	24.1	11.3	16.5	22.0	0.126	
	Pheophytin a (ug)	20.7	10.3	14.6	17.3	0.109	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID		L1829615-12				
Description		Water				
Sampled Date		08-SEP-16				
Sampled Time		16:40				
Client ID		R-6				
Grouping	Analyte					
BIOTA						
Plant Pigments	Chlorophyll a (ug)	18.3				
	Pheophytin a (ug)	14.4				

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1829615-1 Water 06-SEP-16 14:30 E-1	L1829615-2 Water 07-SEP-16 09:40 PORCUPINE CR	L1829615-3 Water 06-SEP-16 16:30 E-2	L1829615-4 Water 06-SEP-16 09:00 E-3	L1829615-5 Water 05-SEP-16 13:10 E-4	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	531	1980	664	622	708
	Hardness (as CaCO3) (mg/L)	281	1370	370	337	386
	pH (pH)	8.20	8.38	8.11	8.15	8.14
Anions and Nutrients	Sulfate (SO4) (mg/L)	151	1090	219	191	236
Total Metals	Aluminum (Al)-Total (mg/L)	0.0656	0.0051	0.0516	1.23	0.185
	Antimony (Sb)-Total (mg/L)	<0.00050	0.00148	<0.00050	0.00066	<0.00050
	Arsenic (As)-Total (mg/L)	0.00090	0.00239	0.00109	0.00198	0.00135
	Barium (Ba)-Total (mg/L)	0.071	0.026	0.066	0.107	0.067
	Beryllium (Be)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Bismuth (Bi)-Total (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B)-Total (mg/L)	<0.10	0.23	<0.10	<0.10	<0.10
	Cadmium (Cd)-Total (mg/L)	0.0000453	0.000162	0.0000474	0.000186	0.0000621
	Calcium (Ca)-Total (mg/L)	68.1	187	78.3	65.0	76.0
	Chromium (Cr)-Total (mg/L)	<0.0010	0.0024	<0.0010	0.0032	0.0011
	Cobalt (Co)-Total (mg/L)	0.00049	<0.00030	0.00064	0.00164	0.00085
	Copper (Cu)-Total (mg/L)	0.0030	0.0020	0.0026	0.0062	0.0028
	Iron (Fe)-Total (mg/L)	0.323	<0.030	0.349	2.67	0.645
	Lead (Pb)-Total (mg/L)	<0.00050	<0.00050	<0.00050	0.00141	<0.00050
	Lithium (Li)-Total (mg/L)	0.0028	0.0645	0.0074	0.0045	0.0095
	Magnesium (Mg)-Total (mg/L)	28.0	209	42.9	42.0	46.2
	Manganese (Mn)-Total (mg/L)	0.182	0.00134	0.166	0.226	0.193
	Mercury (Hg)-Total (mg/L)	0.0000057	0.0000051	0.0000062	0.0000189	0.0000068
	Molybdenum (Mo)-Total (mg/L)	0.0013	0.0026	0.0015	0.0017	0.0016
	Nickel (Ni)-Total (mg/L)	0.0046	0.0573	0.0110	0.0093	0.0134
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)	<2.0	2.6	<2.0	<2.0	<2.0
	Selenium (Se)-Total (mg/L)	0.00188	0.00501	0.00194	0.00167	0.00179
	Silicon (Si)-Total (mg/L)	5.13	6.10	5.05	7.74	5.26
	Silver (Ag)-Total (mg/L)	<0.000020	<0.000020	<0.000020	0.000053	<0.000020
	Sodium (Na)-Total (mg/L)	2.9	13.7	3.7	4.9	4.2
	Strontium (Sr)-Total (mg/L)	0.304	1.62	0.418	0.327	0.426
	Thallium (Tl)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Tin (Sn)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	0.030	<0.010
	Uranium (U)-Total (mg/L)	0.00185	0.00530	0.00207	0.00248	0.00223
	Vanadium (V)-Total (mg/L)	0.00069	<0.00050	0.00067	0.00430	0.00105
	Zinc (Zn)-Total (mg/L)	<0.0050	0.0067	<0.0050	0.0147	<0.0050

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	Description	Sampled Date	Sampled Time	Client ID	L1829615-6	L1829615-7	L1829615-8	L1829615-9	L1829615-10
					Water	Water	Water	Water	Water
		05-SEP-16	09:30	E-6	05-SEP-16	08-SEP-16	07-SEP-16	07-SEP-16	06-SEP-16
					09:30	14:50	12:45	15:00	11:30
					E-6	E-8	R-1	R-2	R-3
Grouping	Analyte								
WATER									
Physical Tests	Conductivity (uS/cm)	716	250	700	618	682			
	Hardness (as CaCO3) (mg/L)	385	116	375	328	367			
	pH (pH)	8.20	8.06	8.21	8.25	8.17			
Anions and Nutrients	Sulfate (SO4) (mg/L)	235	47.9	224	169	218			
Total Metals	Aluminum (Al)-Total (mg/L)	0.549	0.281	0.819	0.316	0.345			
	Antimony (Sb)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050			
	Arsenic (As)-Total (mg/L)	0.00195	0.00079	0.00148	0.00132	0.00101			
	Barium (Ba)-Total (mg/L)	0.089	0.048	0.081	0.062	0.080			
	Beryllium (Be)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
	Bismuth (Bi)-Total (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20			
	Boron (B)-Total (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10			
	Cadmium (Cd)-Total (mg/L)	0.000104	0.0000339	0.000174	0.0000351	0.0000320			
	Calcium (Ca)-Total (mg/L)	78.0	31.2	93.6	61.9	71.2			
	Chromium (Cr)-Total (mg/L)	0.0023	<0.0010	0.0018	0.0013	0.0013			
	Cobalt (Co)-Total (mg/L)	0.00166	0.00073	0.00142	0.00054	0.00076			
	Copper (Cu)-Total (mg/L)	0.0042	0.0031	0.0041	0.0021	0.0027			
	Iron (Fe)-Total (mg/L)	1.40	0.634	1.73	1.01	1.01			
	Lead (Pb)-Total (mg/L)	0.00077	<0.00050	0.00132	<0.00050	<0.00050			
	Lithium (Li)-Total (mg/L)	0.0088	0.0035	0.0039	0.0058	0.0033			
	Magnesium (Mg)-Total (mg/L)	45.0	9.51	34.5	42.2	45.5			
	Manganese (Mn)-Total (mg/L)	0.378	0.0625	0.400	0.143	0.280			
	Mercury (Hg)-Total (mg/L)	0.0000114	<0.0000050	0.0000128	0.0000052	0.0000056			
	Molybdenum (Mo)-Total (mg/L)	0.0016	<0.0010	0.0015	<0.0010	0.0013			
	Nickel (Ni)-Total (mg/L)	0.0164	0.0038	0.0065	0.0047	0.0044			
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30			
	Potassium (K)-Total (mg/L)	<2.0	<2.0	<2.0	<2.0	<2.0			
	Selenium (Se)-Total (mg/L)	0.00190	0.000317	0.00298	0.000780	0.000985			
	Silicon (Si)-Total (mg/L)	6.02	5.82	6.02	6.36	6.61			
	Silver (Ag)-Total (mg/L)	0.000033	<0.000020	0.000031	<0.000020	<0.000020			
	Sodium (Na)-Total (mg/L)	4.2	3.7	3.5	3.2	4.4			
	Strontium (Sr)-Total (mg/L)	0.433	0.158	0.425	0.328	0.347			
Thallium (Tl)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020				
Tin (Sn)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050				
Titanium (Ti)-Total (mg/L)	0.021	<0.010	0.032	0.012	0.011				
Uranium (U)-Total (mg/L)	0.00242	0.00100	0.00253	0.00350	0.00319				
Vanadium (V)-Total (mg/L)	0.00227	0.00151	0.00255	0.00164	0.00172				
Zinc (Zn)-Total (mg/L)	0.0147	0.0054	0.0138	<0.0050	<0.0050				

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829615-11	L1829615-12	L1829615-13	L1829615-14	L1829615-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	05-SEP-16	08-SEP-16	08-SEP-16		
		Sampled Time	11:40	16:40	12:00		
		Client ID	R-4	R-6	MAIDEN CR	FIELD BLANK	TRAVEL BLANK
Grouping	Analyte						
WATER							
Physical Tests	Conductivity (uS/cm)		610	243	196	<2.0	<2.0
	Hardness (as CaCO3) (mg/L)		324	111	84.0	<0.50	
	pH (pH)		8.26	8.06	7.15	5.57	5.53
Anions and Nutrients	Sulfate (SO4) (mg/L)		159	45.9	53.5	<0.30	<0.30
	Total Metals						
	Aluminum (Al)-Total (mg/L)		2.22	0.334	2.21	<0.0050	
	Antimony (Sb)-Total (mg/L)		0.00067	<0.00050	<0.00050	<0.00050	
	Arsenic (As)-Total (mg/L)		0.00493	0.00078	0.00210	<0.00050	
	Barium (Ba)-Total (mg/L)		0.183	0.052	0.104	<0.020	
	Beryllium (Be)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	
	Bismuth (Bi)-Total (mg/L)		<0.20	<0.20	<0.20	<0.20	
	Boron (B)-Total (mg/L)		<0.10	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Total (mg/L)		0.000365	0.0000315	0.000186	<0.0000050	
	Calcium (Ca)-Total (mg/L)		84.1	32.3	17.2	<0.10	
	Chromium (Cr)-Total (mg/L)		0.0052	<0.0010	0.0039	<0.0010	
	Cobalt (Co)-Total (mg/L)		0.00376	0.00078	0.00272	<0.00030	
	Copper (Cu)-Total (mg/L)		0.0123	0.0033	0.0081	<0.0010	
	Iron (Fe)-Total (mg/L)		4.98	0.762	3.38	<0.030	
	Lead (Pb)-Total (mg/L)		0.00330	<0.00050	0.00189	<0.00050	
	Lithium (Li)-Total (mg/L)		0.0040	0.0031	0.0021	<0.0010	
	Magnesium (Mg)-Total (mg/L)		33.4	10.0	12.1	<0.10	
	Manganese (Mn)-Total (mg/L)		0.433	0.0676	0.252	<0.00010	
	Mercury (Hg)-Total (mg/L)		0.000064 ^{DLM}	<0.0000050	0.0000108	<0.0000050	
	Molybdenum (Mo)-Total (mg/L)		0.0024	<0.0010	<0.0010	<0.0010	
	Nickel (Ni)-Total (mg/L)		0.0242	0.0040	0.0087	<0.0010	
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	
	Potassium (K)-Total (mg/L)		<2.0	<2.0	<2.0	<2.0	
	Selenium (Se)-Total (mg/L)		0.00363	0.000280	0.000582	<0.000050	
	Silicon (Si)-Total (mg/L)		8.86	6.35	8.56	<0.050	
	Silver (Ag)-Total (mg/L)		0.000169	<0.000020	0.000036	<0.000020	
	Sodium (Na)-Total (mg/L)		4.5	3.9	2.4	<2.0	
	Strontium (Sr)-Total (mg/L)		0.439	0.166	0.0852	<0.0050	
	Thallium (Tl)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	
	Tin (Sn)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	
	Titanium (Ti)-Total (mg/L)		0.058	0.011	0.066	<0.010	
	Uranium (U)-Total (mg/L)		0.00353	0.00099	0.00067	<0.00020	
	Vanadium (V)-Total (mg/L)		0.00774	0.00169	0.00631	<0.00050	
	Zinc (Zn)-Total (mg/L)		0.0245	0.0057	0.0214	<0.0050	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1829615-16 Water 06-SEP-16 DUPLICATE				
Grouping	Analyte				
WATER					
Physical Tests	Conductivity (uS/cm)	684			
	Hardness (as CaCO3) (mg/L)	366			
	pH (pH)	8.09			
Anions and Nutrients	Sulfate (SO4) (mg/L)	219			
Total Metals	Aluminum (Al)-Total (mg/L)	0.0525			
	Antimony (Sb)-Total (mg/L)	<0.00050			
	Arsenic (As)-Total (mg/L)	0.00115			
	Barium (Ba)-Total (mg/L)	0.066			
	Beryllium (Be)-Total (mg/L)	<0.0010			
	Bismuth (Bi)-Total (mg/L)	<0.20			
	Boron (B)-Total (mg/L)	<0.10			
	Cadmium (Cd)-Total (mg/L)	0.0000521			
	Calcium (Ca)-Total (mg/L)	80.1			
	Chromium (Cr)-Total (mg/L)	<0.0010			
	Cobalt (Co)-Total (mg/L)	0.00067			
	Copper (Cu)-Total (mg/L)	0.0026			
	Iron (Fe)-Total (mg/L)	0.355			
	Lead (Pb)-Total (mg/L)	<0.00050			
	Lithium (Li)-Total (mg/L)	0.0073			
	Magnesium (Mg)-Total (mg/L)	43.9			
	Manganese (Mn)-Total (mg/L)	0.179			
	Mercury (Hg)-Total (mg/L)	0.0000058			
	Molybdenum (Mo)-Total (mg/L)	0.0014			
	Nickel (Ni)-Total (mg/L)	0.0115			
	Phosphorus (P)-Total (mg/L)	<0.30			
	Potassium (K)-Total (mg/L)	<2.0			
	Selenium (Se)-Total (mg/L)	0.00184			
	Silicon (Si)-Total (mg/L)	5.13			
	Silver (Ag)-Total (mg/L)	<0.000020			
	Sodium (Na)-Total (mg/L)	3.5			
	Strontium (Sr)-Total (mg/L)	0.412			
	Thallium (Tl)-Total (mg/L)	<0.00020			
	Tin (Sn)-Total (mg/L)	<0.00050			
	Titanium (Ti)-Total (mg/L)	<0.010			
	Uranium (U)-Total (mg/L)	0.00198			
Vanadium (V)-Total (mg/L)	0.00071				
Zinc (Zn)-Total (mg/L)	<0.0050				

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID					
	L1829615-1 Water 06-SEP-16 14:30 E-1	L1829615-2 Water 07-SEP-16 09:40 PORCUPINE CR	L1829615-3 Water 06-SEP-16 16:30 E-2	L1829615-4 Water 06-SEP-16 09:00 E-3	L1829615-5 Water 05-SEP-16 13:10 E-4	
Grouping	Analyte					
WATER						
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0432	<0.0050	0.0348	0.0303	0.0294
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	0.00148	<0.00050	0.00054	<0.00050
	Arsenic (As)-Dissolved (mg/L)	0.00078	0.00255	0.00105	0.00085	0.00108
	Barium (Ba)-Dissolved (mg/L)	0.065	0.025	0.059	0.063	0.058
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Bismuth (Bi)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B)-Dissolved (mg/L)	<0.10	0.22	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.0000391	0.000181	0.0000500	0.0000248	0.0000419
	Calcium (Ca)-Dissolved (mg/L)	64.4	185	74.9	60.8	73.9
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	0.0024	<0.0010	0.0051	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	0.00043	<0.00030	0.00061	0.00051	0.00066
	Copper (Cu)-Dissolved (mg/L)	0.0027	0.0011	0.0024	0.0018	0.0021
	Iron (Fe)-Dissolved (mg/L)	0.246	<0.030	0.268	0.280	0.284
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Lithium (Li)-Dissolved (mg/L)	0.0028	0.0629	0.0073	0.0035	0.0091
	Magnesium (Mg)-Dissolved (mg/L)	29.3	221	44.5	44.9	49.0
	Manganese (Mn)-Dissolved (mg/L)	0.164	0.00116	0.160	0.170	0.174
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.0012	0.0024	0.0014	0.0012	0.0014
	Nickel (Ni)-Dissolved (mg/L)	0.0044	0.0594	0.0107	0.0080	0.0117
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	2.8	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)	0.00192	0.00514	0.00198	0.00146	0.00196
	Silicon (Si)-Dissolved (mg/L)	4.88	6.08	4.86	5.77	4.93
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Sodium (Na)-Dissolved (mg/L)	2.3	14.0	2.9	4.0	3.5
	Strontium (Sr)-Dissolved (mg/L)	0.278	1.65	0.373	0.284	0.389
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00178	0.00526	0.00196	0.00236	0.00207
	Vanadium (V)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	0.00055	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	<0.0050	0.0063	<0.0050	<0.0050	<0.0050

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1829615-6 Water 05-SEP-16 09:30 E-6	L1829615-7 Water 08-SEP-16 14:50 E-8	L1829615-8 Water 07-SEP-16 12:45 R-1	L1829615-9 Water 07-SEP-16 15:00 R-2	L1829615-10 Water 06-SEP-16 11:30 R-3
Grouping	Analyte				
WATER					
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0286	0.0922	0.0289	0.0406
	Antimony (Sb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Dissolved (mg/L)	0.00123	0.00060	0.00057	0.00108
	Barium (Ba)-Dissolved (mg/L)	0.068	0.043	0.057	0.052
	Beryllium (Be)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010
	Bismuth (Bi)-Dissolved (mg/L)	<0.20	<0.20	<0.20	<0.20
	Boron (B)-Dissolved (mg/L)	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Dissolved (mg/L)	0.0000492	0.0000256	0.0000749	0.0000271
	Calcium (Ca)-Dissolved (mg/L)	74.7	30.8	90.2	59.4
	Chromium (Cr)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010
	Cobalt (Co)-Dissolved (mg/L)	0.00111	0.00056	0.00071	0.00034
	Copper (Cu)-Dissolved (mg/L)	0.0022	0.0027	0.0019	0.0016
	Iron (Fe)-Dissolved (mg/L)	0.323	0.300	0.269	0.519
	Lead (Pb)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Lithium (Li)-Dissolved (mg/L)	0.0087	0.0036	0.0028	0.0057
	Magnesium (Mg)-Dissolved (mg/L)	48.3	9.40	36.4	43.6
	Manganese (Mn)-Dissolved (mg/L)	0.351	0.0544	0.331	0.130
	Mercury (Hg)-Dissolved (mg/L)	0.0000051	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.0014	<0.0010	0.0012	<0.0010
	Nickel (Ni)-Dissolved (mg/L)	0.0131	0.0034	0.0042	0.0041
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	<2.0	<2.0	<2.0	<2.0
	Selenium (Se)-Dissolved (mg/L)	0.00186	0.000295	0.00291	0.000725
	Silicon (Si)-Dissolved (mg/L)	4.98	5.54	4.71	5.82
	Silver (Ag)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020
	Sodium (Na)-Dissolved (mg/L)	3.4	3.0	2.6	2.4
	Strontium (Sr)-Dissolved (mg/L)	0.383	0.143	0.374	0.293
	Thallium (Tl)-Dissolved (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020
	Tin (Sn)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00231	0.00098	0.00226	0.00341
	Vanadium (V)-Dissolved (mg/L)	<0.00050	0.00079	<0.00050	0.00066
	Zinc (Zn)-Dissolved (mg/L)	0.0062	<0.0050	<0.0050	<0.0050

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829615-11	L1829615-12	L1829615-13	L1829615-14	L1829615-15
		Description	Water	Water	Water	Water	Water
		Sampled Date	05-SEP-16	08-SEP-16	08-SEP-16		
		Sampled Time	11:40	16:40	12:00		
		Client ID	R-4	R-6	MAIDEN CR	FIELD BLANK	TRAVEL BLANK
Grouping	Analyte						
WATER							
Dissolved Metals	Dissolved Mercury Filtration Location		FIELD	FIELD	FIELD	FIELD	
	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	
	Aluminum (Al)-Dissolved (mg/L)		0.0199	0.0846	0.172	<0.0050	
	Antimony (Sb)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	
	Arsenic (As)-Dissolved (mg/L)		0.00207	0.00059	0.00076	<0.00050	
	Barium (Ba)-Dissolved (mg/L)		0.090	0.041	0.049	<0.020	
	Beryllium (Be)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	
	Bismuth (Bi)-Dissolved (mg/L)		<0.20	<0.20	<0.20	<0.20	
	Boron (B)-Dissolved (mg/L)		<0.10	<0.10	<0.10	<0.10	
	Cadmium (Cd)-Dissolved (mg/L)		0.0000464	0.0000227	0.0000397	<0.0000050	
	Calcium (Ca)-Dissolved (mg/L)		76.7	29.3	15.6	<0.10	
	Chromium (Cr)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	
	Cobalt (Co)-Dissolved (mg/L)		0.00123	0.00055	0.00126	<0.00030	
	Copper (Cu)-Dissolved (mg/L)		0.0019	0.0026	0.0039	<0.0010	
	Iron (Fe)-Dissolved (mg/L)		0.159	0.306	0.516	<0.030	
	Lead (Pb)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	
	Lithium (Li)-Dissolved (mg/L)		0.0020	0.0032	<0.0010	<0.0010	
	Magnesium (Mg)-Dissolved (mg/L)		32.1	9.09	10.9	<0.10	
	Manganese (Mn)-Dissolved (mg/L)		0.299	0.0508	0.188	<0.00010	
	Mercury (Hg)-Dissolved (mg/L)		<0.0000050	<0.0000050	0.0000059	<0.0000050	
	Molybdenum (Mo)-Dissolved (mg/L)		0.0013	<0.0010	<0.0010	<0.0010	
	Nickel (Ni)-Dissolved (mg/L)		0.0117	0.0032	0.0050	<0.0010	
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	
	Potassium (K)-Dissolved (mg/L)		<2.0	<2.0	<2.0	<2.0	
	Selenium (Se)-Dissolved (mg/L)		0.00324	0.000257	0.000574	<0.000050	
	Silicon (Si)-Dissolved (mg/L)		5.44	5.56	5.74	<0.050	
	Silver (Ag)-Dissolved (mg/L)		<0.000020	<0.000020	<0.000020	<0.000020	
	Sodium (Na)-Dissolved (mg/L)		3.6	3.0	<2.0	<2.0	
	Strontium (Sr)-Dissolved (mg/L)		0.371	0.140	0.0714	<0.0050	
	Thallium (Tl)-Dissolved (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	
	Tin (Sn)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	
	Titanium (Ti)-Dissolved (mg/L)		<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Dissolved (mg/L)		0.00314	0.00087	0.00042	<0.00020	
	Vanadium (V)-Dissolved (mg/L)		<0.00050	0.00080	0.00078	<0.00050	
	Zinc (Zn)-Dissolved (mg/L)		<0.0050	<0.0050	<0.0050	<0.0050	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829615-16	Water	06-SEP-16	DUPLICATE
Grouping	Analyte				
WATER					
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD			
	Dissolved Metals Filtration Location	FIELD			
	Aluminum (Al)-Dissolved (mg/L)	0.0370			
	Antimony (Sb)-Dissolved (mg/L)	<0.00050			
	Arsenic (As)-Dissolved (mg/L)	0.00106			
	Barium (Ba)-Dissolved (mg/L)	0.058			
	Beryllium (Be)-Dissolved (mg/L)	<0.0010			
	Bismuth (Bi)-Dissolved (mg/L)	<0.20			
	Boron (B)-Dissolved (mg/L)	<0.10			
	Cadmium (Cd)-Dissolved (mg/L)	0.0000497			
	Calcium (Ca)-Dissolved (mg/L)	73.2			
	Chromium (Cr)-Dissolved (mg/L)	<0.0010			
	Cobalt (Co)-Dissolved (mg/L)	0.00063			
	Copper (Cu)-Dissolved (mg/L)	0.0024			
	Iron (Fe)-Dissolved (mg/L)	0.256			
	Lead (Pb)-Dissolved (mg/L)	<0.00050			
	Lithium (Li)-Dissolved (mg/L)	0.0072			
	Magnesium (Mg)-Dissolved (mg/L)	44.5			
	Manganese (Mn)-Dissolved (mg/L)	0.166			
	Mercury (Hg)-Dissolved (mg/L)	0.0000051			
	Molybdenum (Mo)-Dissolved (mg/L)	0.0014			
	Nickel (Ni)-Dissolved (mg/L)	0.0110			
	Phosphorus (P)-Dissolved (mg/L)	<0.30			
	Potassium (K)-Dissolved (mg/L)	<2.0			
	Selenium (Se)-Dissolved (mg/L)	0.00195			
	Silicon (Si)-Dissolved (mg/L)	4.75			
	Silver (Ag)-Dissolved (mg/L)	<0.000020			
	Sodium (Na)-Dissolved (mg/L)	2.8			
	Strontium (Sr)-Dissolved (mg/L)	0.368			
	Thallium (Tl)-Dissolved (mg/L)	<0.00020			
	Tin (Sn)-Dissolved (mg/L)	<0.00050			
	Titanium (Ti)-Dissolved (mg/L)	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.00199			
	Vanadium (V)-Dissolved (mg/L)	<0.00050			
	Zinc (Zn)-Dissolved (mg/L)	<0.0050			

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Aluminum (Al)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1829615-1, -10, -11, -12, -13, -14, -16, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L1829615-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Aluminum (Al)-Total	MS-B	L1829615-10, -11, -12, -13, -14, -16, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L1829615-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Manganese (Mn)-Total	MS-B	L1829615-10, -11, -12, -13, -14, -16, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L1829615-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Iron (Fe)-Total	MS-B	L1829615-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Iron (Fe)-Total	MS-B	L1829615-10, -11, -12, -13, -14, -16, -9
Matrix Spike	Silicon (Si)-Total	MS-B	L1829615-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Silicon (Si)-Total	MS-B	L1829615-10, -11, -12, -13, -14, -16, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L1829615-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Sulfate (SO4)	MS-B	L1829615-2
Matrix Spike	Sulfate (SO4)	MS-B	L1829615-2

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
AREA SAMPLED-VA	Biota	Area Sampled (cm2)	Not Applicable

Reference Information

CHLOROA-F-VA	Biota	Chlorophyll a in Biota by Fluorometer	EPA 445.0
<p>This analysis is done using procedures adapted from EPA Method 445.0. Chlorophyll-a is determined by a routine acetone extraction followed with analysis by fluorometry using the non-acidification procedure. This method is not subject to interferences from chlorophyll b. Note: Biota samples are typically submitted as scrapings on a filter.</p>			
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
<p>This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.</p>			
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
<p>Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO₃ equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.</p>			
HG-D-CVAA-VA	Water	Diss. Mercury in Water by CVAAS or CVAFS	APHA 3030B/EPA 1631E (mod)
<p>Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.</p>			
HG-T-CVAA-VA	Water	Total Mercury in Water by CVAAS or CVAFS	EPA 1631E (mod)
<p>Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.</p>			
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020A (mod)
<p>Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.</p>			
<p>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.</p>			
MET-DIS-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves filtration (EPA Method 3005A) and analysis by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
MET-T-CCMS-VA	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)
<p>Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.</p>			
<p>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.</p>			
MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B
<p>This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H "pH Value"
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
<p>It is recommended that this analysis be conducted in the field.</p>			
PH-PCT-VA	Water	pH by Meter (Automated)	APHA 4500-H pH Value
<p>This analysis is carried out using procedures adapted from APHA Method 4500-H "pH Value". The pH is determined in the laboratory using a pH electrode</p>			
<p>It is recommended that this analysis be conducted in the field.</p>			
PHEOPHYTIN-F-VA	Biota	Pheophytin a in Biota by Fluorometer	EPA 445.0
<p>This analysis is done using procedures modified from EPA 445.0 . Pheopigments present in a biota sample are determined collectively as pheophytin a. Pheophytin a is determined by a routine acetone extraction followed with analysis by fluorometry using the acidification procedure. Note: Biota samples are typically submitted as scrapings on a filter.</p>			

Reference Information

SO4-IC-N-VA Water Sulfate in Water by IC EPA 300.1 (mod)
Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

Chain of Custody Numbers:

14-470932, 14-470930

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



23-Sep-2016

Brent Mack
ALS Environmental
8081 Lougheed HWY
Suite 100
Burnaby, BC V5A1W9

Tel: (604) 253-4188
Fax:

Re: L1829615

Work Order: **1609561**

Dear Brent,

ALS Environmental received 16 samples on 20-Sep-2016 10:35 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 22.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Chris Gibson

Shawn Smythe
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: ALS Environmental
Project: L1829615
Work Order: 1609561

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1609561-01	L1829615-1	Water		9/6/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-02	L1829615-2	Water		9/7/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-03	L1829615-3	Water		9/6/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-04	L1829615-4	Water		9/6/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-05	L1829615-5	Water		9/5/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-06	L1829615-6	Water		9/5/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-07	L1829615-7	Water		9/8/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-08	L1829615-8	Water		9/7/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-09	L1829615-9	Water		9/7/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-10	L1829615-10	Water		9/6/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-11	L1829615-11	Water		9/5/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-12	L1829615-12	Water		9/8/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-13	L1829615-13	Water		9/8/2016	9/20/2016 10:35	<input type="checkbox"/>
1609561-14	L1829615-14	Water			9/20/2016 10:35	<input type="checkbox"/>
1609561-15	L1829615-15	Water			9/20/2016 10:35	<input type="checkbox"/>
1609561-16	L1829615-16	Water			9/20/2016 10:35	<input type="checkbox"/>

Client: ALS Environmental
Project: L1829615
Work Order: 1609561

Case Narrative

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

Compound identification is based upon retention time matching only. Any compound with a similar retention time will interfere.

Samples were prepared and analyzed by the analytical method and the laboratory's applicable standard operating procedure listed below:

- IH-001- "Determination of Analytes Using NIOSH and OSHA Methods Using Gas Chromatography."
- IH-002- "Determination of Suspended Particulates in the Atmosphere Using Various Media"
- IH-003- "Determination of Suspended Particulates Not Otherwise Regulated (Total and Respirable)."
- IH-004- "Determination of Analytes by NIOSH and OSHA Methods Using Liquid Chromatography."
- IH-005- "Benzene-Soluble Fraction and Total Particulate (Asphalt Fume)."
- IH-006- "Methods IO-3.1 and IO-3.4 Modified for Metals Preparation and Analysis for Suspended Particulates."
- IH-196- "Carbon Black by OSHA 196."
- IH-6009- "Determination of Mercury in Industrial Hygiene Samples by Manual Cold Vapor Atomic Absorption Spectroscopy."
- ENV-6010B- "Determination of Trace Metals in Solution by Inductively Coupled Plasma-Atomic Emission Spectroscopy by EPA Method 6010B Non-VAP."
- IH-7300 modified- "Elements by ICP."

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental
Project: L1829615
Sample ID: L1829615-1
Collection Date: 9/6/2016

Work Order: 1609561
Lab ID: 1609561-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	2.4		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-2

Lab ID: 1609561-02

Collection Date: 9/7/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	2.4		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-3

Lab ID: 1609561-03

Collection Date: 9/6/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	2.2		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-4

Lab ID: 1609561-04

Collection Date: 9/6/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	63		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-5

Lab ID: 1609561-05

Collection Date: 9/5/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	4.9		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-6

Lab ID: 1609561-06

Collection Date: 9/5/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	32		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-7

Lab ID: 1609561-07

Collection Date: 9/8/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	7.7		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-8

Lab ID: 1609561-08

Collection Date: 9/7/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	37		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-9

Lab ID: 1609561-09

Collection Date: 9/7/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	9.8		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-10

Lab ID: 1609561-10

Collection Date: 9/6/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	12		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-11

Lab ID: 1609561-11

Collection Date: 9/5/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	130		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-12

Lab ID: 1609561-12

Collection Date: 9/8/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	4.9		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-13

Lab ID: 1609561-13

Collection Date: 9/8/2016

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	98		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-14

Lab ID: 1609561-14

Collection Date:

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	2.6		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-15

Lab ID: 1609561-15

Collection Date:

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	2.0		2.0	mg/L	1	9/20/2016

Note:

ALS Environmental

Date: 23-Sep-16

Client: ALS Environmental

Project: L1829615

Work Order: 1609561

Sample ID: L1829615-16

Lab ID: 1609561-16

Collection Date:

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TOTAL SUSPENDED SOLIDS			E160.2			Analyst: rmb
Total suspended solids	ND		2.0	mg/L	1	9/20/2016

Note:

Client: ALS Environmental
Work Order: 1609561
Project: L1829615

QC BATCH REPORT

Batch ID: **R133102** Instrument ID **WETCHEM** Method: **E160.2**

MBLK	Sample ID: MB-R133102-R133102		Units: mg/L		Analysis Date: 9/20/2016					
Client ID:	Run ID: WETCHEM_160920C		SeqNo: 1360373		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total suspended solids ND 2.0

LCS	Sample ID: LCS-R133102-R133102		Units: mg/L		Analysis Date: 9/20/2016					
Client ID:	Run ID: WETCHEM_160920C		SeqNo: 1360374		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total suspended solids 942.1 2.0 1000 0 94.2 70-130 0

DUP	Sample ID: 1609561-02A Dup		Units: mg/L		Analysis Date: 9/20/2016					
Client ID: L1829615-2	Run ID: WETCHEM_160920C		SeqNo: 1360378		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total suspended solids 2.91 2.0 0 0 0 2.39 19.6

DUP	Sample ID: 1609561-16A Dup		Units: mg/L		Analysis Date: 9/20/2016					
Client ID: L1829615-16	Run ID: WETCHEM_160920C		SeqNo: 1360393		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total suspended solids ND 2.0 0 0 0 1.6 0

The following samples were analyzed in this batch:

1609561-01A	1609561-02A	1609561-03A
1609561-04A	1609561-05A	1609561-06A
1609561-07A	1609561-08A	1609561-09A
1609561-10A	1609561-11A	1609561-12A
1609561-13A	1609561-14A	1609561-15A
1609561-16A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Environmental
Project: L1829615
WorkOrder: 1609561

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
mg/L	

Sample Receipt Checklist

Client Name: **ALS-VANCOUVER**

Date/Time Received: **20-Sep-16 10:35**

Work Order: **1609561**

Received by: **RDN**

Checklist completed by Stephanie Harrington 20-Sep-16
eSignature Date

Reviewed by: Shawn Smythe 21-Sep-16
eSignature Date

Matrices:

Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

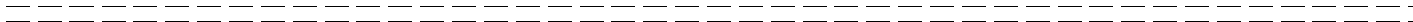
Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:



Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

Short Holding Time

Rush Processing

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L1829615-COFC

COC Number: 14 - 470932

Page 1 of 2

Report To		Report Format / Distribution			Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)										
Company: <u>Laberge Environmental Services</u>		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL)			R	<input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm)									
Contact: <u>Bonnie Burns</u>		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			P	<input type="checkbox"/> Priority (2-4 business days if received by 3pm)									
Address: <u>P.O. Box 21072, Whitehorse, YT Y1A6P7</u>		<input checked="" type="checkbox"/> Criteria on Report - provide details below if box checked			E	<input type="checkbox"/> Emergency (1-2 business days if received by 3pm)									
Phone: <u>867-668-6838</u>		Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			E2	<input type="checkbox"/> Same day or weekend emergency if received by 10am - contact ALS for surcharge.									
Email 1 or Fax: <u>bonnie.burns@northwestel.net</u>		Email 2: <u>northwestel.net</u>			Specify Date Required for E2, E or P:										
Invoice To: Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below										
Copy of Invoice with Report <input type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX													
Company: <u>Same as above</u>		Email 1 or Fax: <u>bonnie.burns@northwestel.net</u>													
Contact: <u>Same as above</u>		Email 2: <u>northwestel.net</u>													
Project Information		Oil and Gas Required Fields (client use)													
ALS Quote #: <u>141612DN</u>		Approver ID:			Cost Center:										
Job #: <u>Clinton Creek</u>		GL Account:			Routing Code:										
PO / AFE:		Activity Code:													
LSD:		Location:													
ALS Lab Work Order # (lab use only): <u>L1829615</u>		ALS Contact:			Sampler: <u>B. Burns</u>										
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Total metals low level	Dissolved metals low level	Total Mercury	Dissolved Mercury	General, TSS etc	Soy etc	Chlorophyll a +	Phaeophytin	Number of Containers	
1	E-1		8/9/16	19:30	H2O	✓	✓	✓	✓	✓	✓	✓	✓	7	
2	Porcupine Cr		7/9/16	9:40	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
3	E-2		6/9/16	16:30	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
4	E-3		6/9/16	09:00	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
5	E-4		5/9/16	13:10	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
6	E-6		5/9/16	9:30	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
7	E-8		8/9/16	14:50	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
8	R-1		7/9/16	12:45	"	✓	✓	✓	✓	✓	✓	✓	✓	5	
9	R-2		7/9/16	15:00	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
10	R-3		6/9/16	11:30	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
11	R-4		5/9/16	14:40	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
12	R-6		8/9/16	16:40	"	✓	✓	✓	✓	✓	✓	✓	✓	7	
Drinking Water (DW) Samples (client use)			Special Instructions / Specify Criteria to add on report (client use)			SAMPLE CONDITION AS RECEIVED (lab use only)									
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No			to meet CCME freshwater aquatic life criteria. all samples preserved & filtered as necessary			Frozen <input type="checkbox"/>					SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>				
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No						Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					Custody seal intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
						Cooling Initiated <input checked="" type="checkbox"/>									
						INITIAL COOLER TEMPERATURES °C: <u>4.4</u> <u>2.2</u>					FINAL COOLER TEMPERATURES °C: <u>6</u>				
SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)									
Released by: <u>Bonnie Burns</u> Date: <u>Sept 9/16</u> Time:			Received by: <u>[Signature]</u> Date: <u>12-SEP-16</u> Time: <u>9:15</u>			Received by: <u>HMC</u>					Date: Time: <u>10:55</u>				

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

SEP 13 2016

Short Holding Time

Rush Processing

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L1829615-COFC

COC Number: 14 - 470930

Page 1 of 2

Report To Company: <i>Labege Env. Serv.</i> Contact: Address: Phone: <i>867-668-6838</i>		Report Format / Distribution Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Criteria on Report - provide details below if box checked Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: <i>bonnieburns@northwestel.net</i> Email 2:		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests) R <input type="checkbox"/> Regular (Standard TAT if received by 3pm) P <input type="checkbox"/> Priority (2-4 business days if received by 3pm) E <input type="checkbox"/> Emergency (1-2 business days if received by 3pm) E2 <input type="checkbox"/> Same day or weekend emergency if received by 10am - contact ALS for surcharge. Specify Date Required for E2, E or P:																																																													
Invoice To Same as Report To <input type="checkbox"/> Yes <input type="checkbox"/> No Copy of Invoice with Report <input type="checkbox"/> Yes <input type="checkbox"/> No Company: Contact:		Invoice Distribution Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: <i>bonnieburns@northwestel.net</i> Email 2:		Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FIP) below																																																													
Project Information ALS Quote #: <i>141612DN</i> Job #: <i>Clinton Cr</i> PO / AFE: LSD:		Oil and Gas Required Fields (client use) Approver ID: GL Account: Activity Code: Location: ALS Contact: Sampler:		<table border="1"> <tr> <th>Sample #</th> <th>Sample Description</th> <th>Date</th> <th>Time</th> <th>Sample Type</th> <th>Total Metals - low level</th> <th>Dissolved metals low level</th> <th>Total Mercury</th> <th>Dissolved Mercury</th> <th>General, TSS etc.</th> <th>Soy etc.</th> <th>Number of Containers</th> </tr> <tr> <td>13</td> <td>Maiden Cr</td> <td>8/9/16</td> <td></td> <td>H₂O</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>5</td> </tr> <tr> <td>14</td> <td>Field Blank</td> <td></td> <td></td> <td>"</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>5</td> </tr> <tr> <td>15</td> <td>Travel blank</td> <td></td> <td></td> <td>"</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>5</td> </tr> <tr> <td>16</td> <td>Duplicate</td> <td>8/9/16</td> <td></td> <td>"</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>5</td> </tr> </table>		Sample #	Sample Description	Date	Time	Sample Type	Total Metals - low level	Dissolved metals low level	Total Mercury	Dissolved Mercury	General, TSS etc.	Soy etc.	Number of Containers	13	Maiden Cr	8/9/16		H ₂ O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	14	Field Blank			"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	15	Travel blank			"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	16	Duplicate	8/9/16		"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5
Sample #	Sample Description	Date	Time			Sample Type	Total Metals - low level	Dissolved metals low level	Total Mercury	Dissolved Mercury	General, TSS etc.	Soy etc.	Number of Containers																																																				
13	Maiden Cr	8/9/16		H ₂ O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5																																																						
14	Field Blank			"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5																																																						
15	Travel blank			"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5																																																						
16	Duplicate	8/9/16		"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5																																																						
ALS Lab Work Order # (lab use only) <i>F1829615</i>																																																																	
Drinking Water (DW) Samples¹ (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No		Special Instructions / Specify Criteria to add on report (client Use) <i>note there wasn't travel blank for metals or Hg.</i>		SAMPLE CONDITION AS RECEIVED (lab use only) Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input checked="" type="checkbox"/> INITIAL COOLER TEMPERATURES °C: 4.4 2.2 FINAL COOLER TEMPERATURES °C: 6																																																													
SHIPMENT RELEASE (client use) Released by: <i>Bonnie Burns</i> Date: <i>SEP 16/16</i> Time:		INITIAL SHIPMENT RECEPTION (lab use only) Received by: <i>[Signature]</i> Date: <i>12-SEP-16</i> Time: <i>9:15</i>		FINAL SHIPMENT RECEPTION (lab use only) Received by: <i>HMC</i> Date: <i>SEP 13 2016</i> Time: <i>10:55</i>																																																													

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

SEP 13 2016

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.