



HEMMERA ENVIROCHEM INC.  
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Date Received: 22-JUL-16  
Report Date: 16-AUG-16 17:05 (MT)  
Version: FINAL REV. 2

Client Phone: 867-456-4865

## Certificate of Analysis

Lab Work Order #: L1802392  
Project P.O. #: NOT SUBMITTED  
Job Reference: 1343-005.18  
C of C Numbers: 1  
Legal Site Desc:

Comments: ADDITIONAL 12-AUG-16 12:32

16-AUG-2016 Revision 2: This revision includes additional chromium speciation analysis.

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Brent Mack, B.Sc.  
Account Manager

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ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1802392-1 Water 20-JUL-16 08:05 E3	L1802392-2 Water 19-JUL-16 16:50 R3	L1802392-3 Water 20-JUL-16 13:20 R7	L1802392-4 Water 19-JUL-16 14:30 R11	L1802392-5 Water 20-JUL-16 17:15 GWCC-1	
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	823	816	293	484	2420
	Hardness (as CaCO3) (mg/L)	484	470	150	227	1680
	pH (pH)	8.20	8.12	7.55	8.01	7.63
<b>Anions and Nutrients</b>	Ammonia, Total (as N) (mg/L)	0.0095	0.0397	0.0794	<0.0050	<0.0050
	Nitrate (as N) (mg/L)	0.189	0.0523	0.0980	0.0904	0.521
	Nitrite (as N) (mg/L)	0.0047	0.0023	<0.0010	<0.0010	<0.0050 <sup>DLDS</sup>
	Phosphorus (P)-Total (mg/L)	0.0074	0.0596	0.0486	0.0055	<0.0020
	Sulfate (SO4) (mg/L)	265	274	70.9	131	1270
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	12.5	13.4	27.3	14.1	5.33
	Total Organic Carbon (mg/L)					
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	0.402	3.08	1.93	0.112	0.157
	Antimony (Sb)-Total (mg/L)	0.00104	0.00041	0.00031	0.00020	0.00137
	Arsenic (As)-Total (mg/L)	0.00159	0.00347	0.00268	0.00061	0.00213
	Barium (Ba)-Total (mg/L)	0.0771	0.172	0.163	0.0661	0.0185
	Beryllium (Be)-Total (mg/L)	0.000023	0.000117	0.000091	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)	0.088	<0.010	<0.010	<0.010	0.301
	Cadmium (Cd)-Total (mg/L)	0.0000222	0.000132	0.0000708	0.0000348	0.000191
	Calcium (Ca)-Total (mg/L)	80.5	83.8	34.4	55.1	191
	Chromium (Cr)-Total (mg/L)	0.00183	0.00666	0.00490	0.00078	0.00283
	Cobalt (Co)-Total (mg/L)	0.00045	0.00261	0.00214	0.00017	<0.00010
	Copper (Cu)-Total (mg/L)	0.00242	0.00942	0.00782	0.00228	0.00120
	Iron (Fe)-Total (mg/L)	0.905	5.98	4.38	0.280	<0.010
	Lead (Pb)-Total (mg/L)	0.000322	0.00262	0.00134	0.000095	<0.000050
	Lithium (Li)-Total (mg/L)	0.0053	0.0066	0.0015	<0.0010	0.0774
	Magnesium (Mg)-Total (mg/L)	65.9	60.7	16.9	26.1	283
	Manganese (Mn)-Total (mg/L)	0.105	0.273	0.422	0.0244	0.00030
	Mercury (Hg)-Total (mg/L)	<0.0000050	0.0000207	<0.000025 <sup>DLM</sup>	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	0.00150	0.00164	0.000720	0.00102	0.00285
	Nickel (Ni)-Total (mg/L)	0.00944	0.0112	0.00724	0.00252	0.0711
	Phosphorus (P)-Total (mg/L)	<0.050	0.126	0.101	<0.050	<0.050
	Potassium (K)-Total (mg/L)	1.00	1.21	0.36	0.41	3.21
	Selenium (Se)-Total (mg/L)	0.000838	0.000693	0.000447	0.000631	0.00409
Silicon (Si)-Total (mg/L)	6.64	11.2	8.32	6.21	6.19	
Silver (Ag)-Total (mg/L)	0.000010	0.000060	0.000025	<0.000010	<0.000010	
Sodium (Na)-Total (mg/L)	5.35	4.57	2.09	6.29	17.5	

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

16-AUG-16 17:05 (MT)

Version: FINAL REV. 2

Sample ID Description Sampled Date Sampled Time Client ID		L1802392-6 Water 20-JUL-16 16:50 GWCC-2	L1802392-7 Water 20-JUL-16 16:15 GWCC-3	L1802392-8 Water 20-JUL-16 17:45 GWCC-4	L1802392-9 Water TRAVEL BLANK	L1802392-10 Water 20-JUL-16 16:15 DUP1
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	1680	1030	822	<2.0	1040
	Hardness (as CaCO3) (mg/L)	1110	612	471		613
	pH (pH)	7.80	7.73	7.69	5.36 <sup>RRV</sup>	7.69
<b>Anions and Nutrients</b>	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	<0.0050	0.0072 <sup>RRV</sup>	<0.0050
	Nitrate (as N) (mg/L)	0.356 <sup>DLDS</sup>	0.170 <sup>DLDS</sup>	0.0861	<0.0050	0.171 <sup>DLDS</sup>
	Nitrite (as N) (mg/L)	<0.0050	<0.0020	<0.0010	<0.0010	<0.0020
	Phosphorus (P)-Total (mg/L)	0.0021	<0.0020	<0.0020	<0.0020	0.0028
	Sulfate (SO4) (mg/L)	790	388	257	<0.30	381
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	7.04	8.95	9.53		8.99
	Total Organic Carbon (mg/L)				<0.50	
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	<0.0030	<0.0030	0.0032	<0.0030	<0.0030
	Antimony (Sb)-Total (mg/L)	0.00127	0.00109	0.00123	<0.00010	0.00108
	Arsenic (As)-Total (mg/L)	0.00145	0.00094	0.00125	<0.00010	0.00094
	Barium (Ba)-Total (mg/L)	0.0205	0.0356	0.0368	<0.000050	0.0355
	Beryllium (Be)-Total (mg/L)	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
	Bismuth (Bi)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Total (mg/L)	0.132	0.078	0.063	<0.010	0.078
	Cadmium (Cd)-Total (mg/L)	0.000158	0.0000693	0.0000532	<0.0000050	0.0000797
	Calcium (Ca)-Total (mg/L)	153	106	86.6	<0.050	107
	Chromium (Cr)-Total (mg/L)	0.00108	0.00051	0.00055	<0.00010	0.00048
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	0.00138	0.00131	0.00132	<0.00050	0.00141
	Iron (Fe)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Total (mg/L)	0.0126	0.0080	0.0074	<0.0010	0.0081
	Magnesium (Mg)-Total (mg/L)	171	84.3	60.7	<0.10	84.9
	Manganese (Mn)-Total (mg/L)	0.00015	0.00018	0.00080	<0.00010	0.00017
	Mercury (Hg)-Total (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Total (mg/L)	0.00312	0.00282	0.00261	<0.000050	0.00281
	Nickel (Ni)-Total (mg/L)	0.0389	0.0317	0.0337	<0.00050	0.0315
	Phosphorus (P)-Total (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Total (mg/L)	1.91	1.35	1.21	<0.10	1.39
	Selenium (Se)-Total (mg/L)	0.00324	0.00144	0.000898	<0.000050	0.00147
Silicon (Si)-Total (mg/L)	5.30	5.50	6.07	<0.050	5.55	
Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	
Sodium (Na)-Total (mg/L)	5.78	3.72	3.30	<0.050	3.73	

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

	<b>Sample ID</b> <b>Description</b> <b>Sampled Date</b> <b>Sampled Time</b> <b>Client ID</b>	L1802392-11			
		Water			
		20-JUL-16			
		08:05			
		FB-1			
Grouping	Analyte				
<b>WATER</b>					
<b>Physical Tests</b>	Conductivity (uS/cm)	<2.0			
	Hardness (as CaCO3) (mg/L)	<0.50			
	pH (pH)	5.85			
<b>Anions and Nutrients</b>	Ammonia, Total (as N) (mg/L)	<0.0050			
	Nitrate (as N) (mg/L)	<0.0050			
	Nitrite (as N) (mg/L)	<0.0010			
	Phosphorus (P)-Total (mg/L)	<0.020 <sup>DLM</sup>			
	Sulfate (SO4) (mg/L)	<0.30			
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	<0.50			
	Total Organic Carbon (mg/L)				
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	<0.0030			
	Antimony (Sb)-Total (mg/L)	<0.00010			
	Arsenic (As)-Total (mg/L)	<0.00010			
	Barium (Ba)-Total (mg/L)	<0.000050			
	Beryllium (Be)-Total (mg/L)	<0.000020			
	Bismuth (Bi)-Total (mg/L)	<0.000050			
	Boron (B)-Total (mg/L)	<0.010			
	Cadmium (Cd)-Total (mg/L)	<0.0000050			
	Calcium (Ca)-Total (mg/L)	<0.050			
	Chromium (Cr)-Total (mg/L)	<0.00010			
	Cobalt (Co)-Total (mg/L)	<0.00010			
	Copper (Cu)-Total (mg/L)	<0.00050			
	Iron (Fe)-Total (mg/L)	<0.010			
	Lead (Pb)-Total (mg/L)	<0.000050			
	Lithium (Li)-Total (mg/L)	<0.0010			
	Magnesium (Mg)-Total (mg/L)	<0.10			
	Manganese (Mn)-Total (mg/L)	0.00011			
	Mercury (Hg)-Total (mg/L)	<0.0000050			
	Molybdenum (Mo)-Total (mg/L)	<0.000050			
	Nickel (Ni)-Total (mg/L)	<0.00050			
	Phosphorus (P)-Total (mg/L)	<0.050			
	Potassium (K)-Total (mg/L)	<0.10			
	Selenium (Se)-Total (mg/L)	<0.000050			
	Silicon (Si)-Total (mg/L)	<0.050			
	Silver (Ag)-Total (mg/L)	<0.000010			
	Sodium (Na)-Total (mg/L)	<0.050			

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

16-AUG-16 17:05 (MT)

Version: FINAL REV. 2

Sample ID Description Sampled Date Sampled Time Client ID	L1802392-1 Water 20-JUL-16 08:05 E3	L1802392-2 Water 19-JUL-16 16:50 R3	L1802392-3 Water 20-JUL-16 13:20 R7	L1802392-4 Water 19-JUL-16 14:30 R11	L1802392-5 Water 20-JUL-16 17:15 GWCC-1	
Grouping	Analyte					
<b>WATER</b>						
<b>Total Metals</b>	Strontium (Sr)-Total (mg/L)	0.410	0.416	0.107	0.261	1.87
	Sulfur (S)-Total (mg/L)	98.2	101	25.6	48.1	459
	Thallium (Tl)-Total (mg/L)	<0.000010	0.000044	0.000017	<0.000010	0.000086
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.0125	0.0776	0.0585	0.00284	<0.00030
	Uranium (U)-Total (mg/L)	0.00410	0.00579	0.000257	0.00134	0.00641
	Vanadium (V)-Total (mg/L)	0.00196	0.0102	0.00712	0.00085	<0.00050
	Zinc (Zn)-Total (mg/L)	0.0034	0.0219	0.0122	<0.0030	0.0070
	Zirconium (Zr)-Total (mg/L)	0.00069	0.00106	0.00095	0.00075	<0.00030
<b>Dissolved Metals</b>	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0166	0.0218	0.0760	0.0260	0.0010
	Antimony (Sb)-Dissolved (mg/L)	0.00097	0.00018	0.00021	0.00018	0.00133
	Arsenic (As)-Dissolved (mg/L)	0.00117	0.00076	0.00154	0.00057	0.00209
	Barium (Ba)-Dissolved (mg/L)	0.0639	0.0594	0.115	0.0619	0.0183
	Beryllium (Be)-Dissolved (mg/L)	<0.000020	<0.000020	0.000025	<0.000020	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Boron (B)-Dissolved (mg/L)	0.083	<0.010	<0.010	<0.010	0.278
	Cadmium (Cd)-Dissolved (mg/L)	0.0000112	0.0000094	0.0000164	0.0000159	0.000187
	Calcium (Ca)-Dissolved (mg/L)	77.4	83.0	33.5	51.1	194
	Chromium (Cr)-Dissolved (mg/L)	0.00061	0.00040	0.00116	0.00057	0.00257
	Cobalt (Co)-Dissolved (mg/L)	0.00025	0.00041	0.00082	0.00011	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00156	0.00167	0.00370	0.00182	0.00095
	Iron (Fe)-Dissolved (mg/L)	0.121	0.210	1.47	0.127	<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	0.000060	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0050	0.0037	<0.0010	<0.0010	0.0764
	Magnesium (Mg)-Dissolved (mg/L)	70.7	63.7	16.2	24.2	291
	Manganese (Mn)-Dissolved (mg/L)	0.0849	0.162	0.383	0.0181	0.00017
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.00119	0.00117	0.000550	0.00104	0.00245
	Nickel (Ni)-Dissolved (mg/L)	0.00805	0.00354	0.00378	0.00218	0.0695
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050	<0.050	<0.050
	Potassium (K)-Dissolved (mg/L)	0.86	0.80	0.22	0.35	3.34
	Selenium (Se)-Dissolved (mg/L)	0.000978	0.000522	0.000297	0.000858 <sup>DTC</sup>	0.00451
	Silicon (Si)-Dissolved (mg/L)	5.73	6.13	5.45	6.26	6.25
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	5.28	4.39	2.04	6.38	17.3

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

16-AUG-16 17:05 (MT)

Version: FINAL REV. 2

Sample ID Description Sampled Date Sampled Time Client ID		L1802392-6 Water 20-JUL-16 16:50 GWCC-2	L1802392-7 Water 20-JUL-16 16:15 GWCC-3	L1802392-8 Water 20-JUL-16 17:45 GWCC-4	L1802392-9 Water TRAVEL BLANK	L1802392-10 Water 20-JUL-16 16:15 DUP1
Grouping	Analyte					
<b>WATER</b>						
<b>Total Metals</b>	Strontium (Sr)-Total (mg/L)	0.814	0.541	0.452	<0.00020	0.535
	Sulfur (S)-Total (mg/L)	291	138	96.4	<0.50	142
	Thallium (Tl)-Total (mg/L)	0.000065	0.000073	0.000073	<0.000010	0.000081
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
	Uranium (U)-Total (mg/L)	0.00257	0.00146	0.00110	<0.000010	0.00145
	Vanadium (V)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Zinc (Zn)-Total (mg/L)	0.0049	<0.0030	<0.0030	<0.0030	0.0030
	Zirconium (Zr)-Total (mg/L)	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
<b>Dissolved Metals</b>	Dissolved Mercury Filtration Location	FIELD	FIELD	FIELD		FIELD
	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD		FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0011	0.0015	0.0014		0.0014
	Antimony (Sb)-Dissolved (mg/L)	0.00125	0.00106	0.00119		0.00106
	Arsenic (As)-Dissolved (mg/L)	0.00141	0.00091	0.00124		0.00088
	Barium (Ba)-Dissolved (mg/L)	0.0207	0.0349	0.0365		0.0349
	Beryllium (Be)-Dissolved (mg/L)	<0.000020	<0.000020	<0.000020		<0.000020
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050		<0.000050
	Boron (B)-Dissolved (mg/L)	0.123	0.073	0.060		0.074
	Cadmium (Cd)-Dissolved (mg/L)	0.000142	0.0000754	0.0000463		0.0000751
	Calcium (Ca)-Dissolved (mg/L)	155	105	85.9		104
	Chromium (Cr)-Dissolved (mg/L)	0.00098	0.00043	0.00042		0.00045
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010		<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00115	0.00114	0.00121		0.00110
	Iron (Fe)-Dissolved (mg/L)	<0.010	<0.010	<0.010		<0.010
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050		<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0124	0.0079	0.0074		0.0081
	Magnesium (Mg)-Dissolved (mg/L)	175	85.2	62.2		85.6
	Manganese (Mn)-Dissolved (mg/L)	0.00013	0.00012	0.00057		0.00011
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050		<0.0000050
	Molybdenum (Mo)-Dissolved (mg/L)	0.00266	0.00241	0.00217		0.00244
	Nickel (Ni)-Dissolved (mg/L)	0.0376	0.0305	0.0322		0.0306
	Phosphorus (P)-Dissolved (mg/L)	<0.050	<0.050	<0.050		<0.050
	Potassium (K)-Dissolved (mg/L)	1.97	1.29	1.18		1.32
	Selenium (Se)-Dissolved (mg/L)	0.00339	0.00165	0.000980		0.00154
	Silicon (Si)-Dissolved (mg/L)	5.34	5.37	6.07		5.40
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010		<0.000010
	Sodium (Na)-Dissolved (mg/L)	5.60	3.62	3.20		3.64

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

	<b>Sample ID</b> <b>Description</b> <b>Sampled Date</b> <b>Sampled Time</b> <b>Client ID</b>	L1802392-11			
		Water			
		20-JUL-16			
		08:05			
		FB-1			
Grouping	Analyte				
<b>WATER</b>					
<b>Total Metals</b>	Strontium (Sr)-Total (mg/L)	<0.00020			
	Sulfur (S)-Total (mg/L)	<0.50			
	Thallium (Tl)-Total (mg/L)	<0.000010			
	Tin (Sn)-Total (mg/L)	<0.00010			
	Titanium (Ti)-Total (mg/L)	<0.00030			
	Uranium (U)-Total (mg/L)	<0.000010			
	Vanadium (V)-Total (mg/L)	<0.00050			
	Zinc (Zn)-Total (mg/L)	<0.0030			
	Zirconium (Zr)-Total (mg/L)	<0.00030			
<b>Dissolved Metals</b>	Dissolved Mercury Filtration Location	FIELD			
	Dissolved Metals Filtration Location	FIELD			
	Aluminum (Al)-Dissolved (mg/L)	<0.0010			
	Antimony (Sb)-Dissolved (mg/L)	<0.00010			
	Arsenic (As)-Dissolved (mg/L)	<0.00010			
	Barium (Ba)-Dissolved (mg/L)	<0.000050			
	Beryllium (Be)-Dissolved (mg/L)	<0.000020			
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050			
	Boron (B)-Dissolved (mg/L)	<0.010			
	Cadmium (Cd)-Dissolved (mg/L)	<0.0000050			
	Calcium (Ca)-Dissolved (mg/L)	<0.050			
	Chromium (Cr)-Dissolved (mg/L)	<0.00010			
	Cobalt (Co)-Dissolved (mg/L)	<0.00010			
	Copper (Cu)-Dissolved (mg/L)	<0.00020			
	Iron (Fe)-Dissolved (mg/L)	<0.010			
	Lead (Pb)-Dissolved (mg/L)	<0.000050			
	Lithium (Li)-Dissolved (mg/L)	<0.0010			
	Magnesium (Mg)-Dissolved (mg/L)	<0.10			
	Manganese (Mn)-Dissolved (mg/L)	<0.00010			
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050			
	Molybdenum (Mo)-Dissolved (mg/L)	<0.000050			
	Nickel (Ni)-Dissolved (mg/L)	<0.00050			
	Phosphorus (P)-Dissolved (mg/L)	<0.050			
	Potassium (K)-Dissolved (mg/L)	<0.10			
	Selenium (Se)-Dissolved (mg/L)	<0.000050			
	Silicon (Si)-Dissolved (mg/L)	<0.050			
	Silver (Ag)-Dissolved (mg/L)	<0.000010			
	Sodium (Na)-Dissolved (mg/L)	<0.050			

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1802392-1	L1802392-2	L1802392-3	L1802392-4	L1802392-5
		Description	Water	Water	Water	Water	Water
		Sampled Date	20-JUL-16	19-JUL-16	20-JUL-16	19-JUL-16	20-JUL-16
		Sampled Time	08:05	16:50	13:20	14:30	17:15
		Client ID	E3	R3	R7	R11	GWCC-1
Grouping	Analyte						
<b>WATER</b>							
<b>Dissolved Metals</b>	Strontium (Sr)-Dissolved (mg/L)	0.396	0.410	0.102	0.253	1.81	
	Sulfur (S)-Dissolved (mg/L)	96.2	99.8	24.9	41.4	438	
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	0.000078	
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Dissolved (mg/L)	0.00053	0.00056	0.00214	0.00059	<0.00030	
	Uranium (U)-Dissolved (mg/L)	0.00369	0.00495	0.000117	0.00107	0.00613	
	Vanadium (V)-Dissolved (mg/L)	0.00055	0.00077	0.00125	<0.00050	<0.00050	
	Zinc (Zn)-Dissolved (mg/L)	0.0013	0.0112	<0.0010	<0.0010	0.0067	
	Zirconium (Zr)-Dissolved (mg/L)	0.00046	0.00053	0.00102	0.00080	<0.00030	
<b>Speciated Metals</b>	Chromium (III)-Dissolved (mg/L)			0.00116		<0.00058	
	Chromium (III)-Total (mg/L)	<0.00074	0.00666	0.00490		<0.00088	
	Hexavalent Chromium (mg/L)	0.0012	<0.0010	<0.0010		0.0034	
	Hexavalent Chromium-Dissolved (mg/L)			<0.0010		0.0034	

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



## ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1802392-6	L1802392-7	L1802392-8	L1802392-9	L1802392-10
		Description	Water	Water	Water	Water	Water
		Sampled Date	20-JUL-16	20-JUL-16	20-JUL-16		20-JUL-16
		Sampled Time	16:50	16:15	17:45		16:15
		Client ID	GWCC-2	GWCC-3	GWCC-4	TRAVEL BLANK	DUP1
Grouping	Analyte						
<b>WATER</b>							
<b>Dissolved Metals</b>	Strontium (Sr)-Dissolved (mg/L)		0.802	0.524	0.432		0.527
	Sulfur (S)-Dissolved (mg/L)		272	131	91.5		131
	Thallium (Tl)-Dissolved (mg/L)		0.000053	0.000059	0.000073		0.000060
	Tin (Sn)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010		<0.00010
	Titanium (Ti)-Dissolved (mg/L)		<0.00030	<0.00030	<0.00030		<0.00030
	Uranium (U)-Dissolved (mg/L)		0.00239	0.00134	0.000998		0.00135
	Vanadium (V)-Dissolved (mg/L)		<0.00050	<0.00050	<0.00050		<0.00050
	Zinc (Zn)-Dissolved (mg/L)		0.0044	0.0020	0.0024		0.0021
	Zirconium (Zr)-Dissolved (mg/L)		<0.00030	<0.00030	<0.00030		<0.00030
<b>Speciated Metals</b>	Chromium (III)-Dissolved (mg/L)						
	Chromium (III)-Total (mg/L)		<0.00072				
	Hexavalent Chromium (mg/L)		0.0017				
	Hexavalent Chromium-Dissolved (mg/L)						

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

	<b>Sample ID</b> <b>Description</b> <b>Sampled Date</b> <b>Sampled Time</b> <b>Client ID</b>	L1802392-11			
		Water			
		20-JUL-16			
		08:05			
		FB-1			
Grouping	Analyte				
<b>WATER</b>					
<b>Dissolved Metals</b>	Strontium (Sr)-Dissolved (mg/L)	<0.00020			
	Sulfur (S)-Dissolved (mg/L)	<0.50			
	Thallium (Tl)-Dissolved (mg/L)	<0.000010			
	Tin (Sn)-Dissolved (mg/L)	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	<0.00030			
	Uranium (U)-Dissolved (mg/L)	<0.000010			
	Vanadium (V)-Dissolved (mg/L)	<0.00050			
	Zinc (Zn)-Dissolved (mg/L)	<0.0010			
	Zirconium (Zr)-Dissolved (mg/L)	<0.00030			
<b>Speciated Metals</b>	Chromium (III)-Dissolved (mg/L)				
	Chromium (III)-Total (mg/L)				
	Hexavalent Chromium (mg/L)				
	Hexavalent Chromium-Dissolved (mg/L)				

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

## Reference Information

## QC Samples with Qualifiers &amp; Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Bismuth (Bi)-Dissolved	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Duplicate	Boron (B)-Dissolved	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Duplicate	Silver (Ag)-Dissolved	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Duplicate	Sodium (Na)-Dissolved	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Duplicate	Tin (Sn)-Dissolved	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Duplicate	Aluminum (Al)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Bismuth (Bi)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Boron (B)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Cadmium (Cd)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Chromium (Cr)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Copper (Cu)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Lead (Pb)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Lithium (Li)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Nickel (Ni)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Selenium (Se)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Silver (Ag)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Thallium (Tl)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Tin (Sn)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Titanium (Ti)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Vanadium (V)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Zinc (Zn)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Zirconium (Zr)-Total	DLA	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Sulfate (SO4)	MB-LOR	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Sulfate (SO4)	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Aluminum (Al)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Cadmium (Cd)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Cobalt (Co)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Copper (Cu)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Nickel (Ni)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Zinc (Zn)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Boron (B)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Copper (Cu)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Calcium (Ca)-Total	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Total	MS-B	L1802392-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

## Reference Information

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MB-LOR	Method Blank exceeds ALS DQO. Limits of Reporting have been adjusted for samples with positive hits below 5x blank level.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RRV	Reported Result Verified By Repeat Analysis

### Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
<b>BE-D-L-CCMS-VA</b>	Water	Diss. Be (low) in Water by CRC ICPMS	APHA 3030B/6020A (mod)
		Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.	
		Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.	
<b>BE-T-L-CCMS-VA</b>	Water	Total Be (Low) in Water by CRC ICPMS	EPA 200.2/6020A (mod)
		Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.	
		Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.	
<b>CARBONS-DOC-VA</b>	Water	Dissolved organic carbon by combustion	APHA 5310B TOTAL ORGANIC CARBON (TOC)
		This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.	
<b>CARBONS-TOC-VA</b>	Water	Total organic carbon by combustion	APHA 5310B TOTAL ORGANIC CARBON (TOC)
		This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".	
<b>CR-CR3-DIS-CALC-ED</b>	Water	Dissolved Trivalent Chromium in Water	CALCULATION
		Chromium (III)-Dissolved is calculated as the difference between the dissolved chromium and the dissolved hexavalent chromium (Cr(VI)) results.	
<b>CR-CR3-TOT-CALC-ED</b>	Water	Total Trivalent Chromium in Water	CALCULATION
		Chromium (III)-Total is calculated as the difference between the total chromium and the hexavalent chromium (Cr(VI)) results.	
<b>CR-CR6-ED</b>	Water	Chromium, Hexavalent (Cr +6)	APHA 3500-Cr C (Ion Chromatography)
		This analysis is carried out using procedures adapted from method 3500-Cr C in "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from Method 1636 published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.	
		Results are based on an un-filtered, field-preserved sample.	
<b>CR6-D-IC-ED</b>	Water	Chromium, Dissolved Hexavalent (Cr +6)	APHA 3500-Cr C (Ion Chromatography)
		This analysis is carried out using procedures adapted from method 3500-Cr C in "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from Method 1636 published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.	
		Results are based on a field-filtered, field-preserved sample.	
<b>EC-PCT-VA</b>	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
		This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using a conductivity electrode.	
<b>HARDNESS-CALC-VA</b>	Water	Hardness	APHA 2340B
		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.	
<b>HG-D-CVAA-VA</b>	Water	Diss. Mercury in Water by CVAAS or CVAFS	APHA 3030B/EPA 1631E (mod)
		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.	
<b>HG-T-CVAA-VA</b>	Water	Total Mercury in Water by CVAAS or CVAFS	EPA 1631E (mod)
		Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS or CVAFS.	

## Reference Information

**MET-D-CCMS-VA** Water Dissolved Metals in Water by CRC ICPMS APHA 3030B/6020A (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

**MET-DIS-LOW-ICP-VA** Water Dissolved Metals in Water by ICPOES EPA 3005A/6010B

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).

**MET-T-CCMS-VA** Water Total Metals in Water by CRC ICPMS EPA 200.2/6020A (mod)

Water samples are digested with nitric and hydrochloric acids, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

**MET-TOT-LOW-ICP-VA** Water Total Metals in Water by ICPOES EPA 3005A/6010B

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).

**NH3-F-VA** Water Ammonia in Water by Fluorescence APHA 4500 NH3-NITROGEN (AMMONIA)

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

**NH3-F-VA** Water Ammonia in Water by Fluorescence J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et al.

**NO2-L-IC-N-WR** Water Nitrite in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**NO3-L-IC-N-WR** Water Nitrate in Water by IC (Low Level) EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

**P-T-PRES-COL-VA** Water Total P in Water by Colour APHA 4500-P Phosphorus

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorus is determined colourimetrically after persulphate digestion of the sample.

**PH-PCT-VA** Water pH by Meter (Automated) APHA 4500-H "pH Value"

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

It is recommended that this analysis be conducted in the field.

**PH-PCT-VA** Water pH by Meter (Automated) APHA 4500-H pH Value

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

It is recommended that this analysis be conducted in the field.

**S-DIS-ICP-VA** Water Dissolved Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

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, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

**S-TOT-ICP-VA** Water Total Sulfur in Water by ICPOES EPA SW-846 3005A/6010B

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

## Reference Information

States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

Method Limitation: This method will not give total sulfur results for all samples. Sulfide or other volatile forms of sulfur that may be present in submitted samples, is often lost during the sampling, preservation and analysis process. The data reported as total and/or dissolved sulfur represents all non-volatile forms of sulfur present in a particular sample.

**SO4-IC-N-WR**                      Water              Sulfate in Water by IC    EPA 300.1 (mod)

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

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

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*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:*

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Laboratory Definition Code	Laboratory Location
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

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**Chain of Custody Numbers:**

1

**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.*



Contact:  
Company:  
Address:

## REFERENCE DATA

---

Project / Location:

PO Number:

ALS Work Order:

TEM Water Narrative: Analysis performed on FEI Tecnai TEM with integrated EDXA capabilities. Morphology, EDXA, and SAED measurements used to determine fiber species. Representative EDXA spectra of each asbestos type detected included. Compliance samples must be received and filtered within 48 hours of collection. Collection is performed outside ALS and is the responsibility of the client. Samples disposed after 60 days. TEM grids archived 3 years. Results apply only to portions analyzed.

TEM Water Methods: "EPA 100.2" refers to drinking water samples filtered on 47mm, 0.22 $\mu$ m pore MCE filters. "EPA 100.1" refers to drinking water samples filtered on 47mm, 0.1 $\mu$ m pore Polycarbonate filters. No standard method for asbestos in nonpotable water exists. All TEM waters (potable and nonpotable) analyzed at >10,000x magnification for asbestos fibers >10 $\mu$ m long. Whenever possible, sufficient volume is analyzed to yield an AS of <0.20 MFL based on the detection of 1 confirmed asbestos fiber in the total area analyzed. However, the volume analyzed is dependent upon a filter loading of <25% particulate. Samples containing excessive suspended solids may not reach the recommended AS of <0.20 MFL. In any case, a minimum of 4 and a maximum of 10 openings are analyzed regardless of the AS reached or asbestos concentration detected. ALS will report results directly to state of origin only when;

- a) the Chain of Custody clearly states "drinking water for state compliance",
- b) the appropriate state drinking water form is submitted with the samples,
- c) the state form is completely filled out by the client prior to submittal, and
- d) the address to which the form is to be sent is provided.

NOTES: NA=Not Applicable, ND=None Detected, AS=Analytical Sensitivity, MFL=Millions of Fibers per Liter. <sup>†</sup> Act-Tremolite concentrations include Actinolite as well as the Libby Amphiboles; Tremolite, Winchite, & Richterite.

OH Lab ID: #4077, Ohio Analysts; P. Johnson #2268, A. Sohn #3431

PA Lab ID: #68-01320, Cert. #003

NELAC accredited through New York ELAP, LAB #11371

## TEM ANALYSIS DATA

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EDXA Resolution (eV): <175

Accelerating Voltage (keV): 100

Prep Start Date: 7/27/2016

Calibration Constant ( $\mu$ m/cm): 0.74

Camera Constant (mm-Å): 129.25

Analysis Start Date: 7/28/2016

*Pamela Johnson*

*Shawn Smythe*

---

Pamela Johnson  
ALS TEM Analyst

---

Shawn Smythe  
ALS Project Manager

*This report shall not be reproduced except in full without written approval of ALS.*

**IDENTIFICATION**

Client Sample ID:	L1802392-1 E3	L1802392-2 R3
ALS Sample ID:	1607739-01	1607739-02
Method:	EPA 100.2	EPA 100.2
Date of Collection:	7/20/2016	7/19/2016
Time of Collection:	10:00	10:00

**FILTRATION & ANALYSIS**

Date of Filtration:	7/26/2016	7/26/2016
Time of Filtration:	16:35	16:35
Volume Filtered (L):	0.005	0.001
Openings Analyzed:	4	10
Avg. Opening Area (mm <sup>2</sup> ):	0.011	0.011
AS (MFL):	4.89	9.77

**ASBESTOS COUNT**

Chrysotile:	9	0
Amosite:	0	0
Crocidolite:	0	0
Act-Tremolite <sup>†</sup> :	0	0
Anthophyllite:	0	0
Total Asbestos:	9	0

**ASBESTOS CONCENTRATION (MFL)**

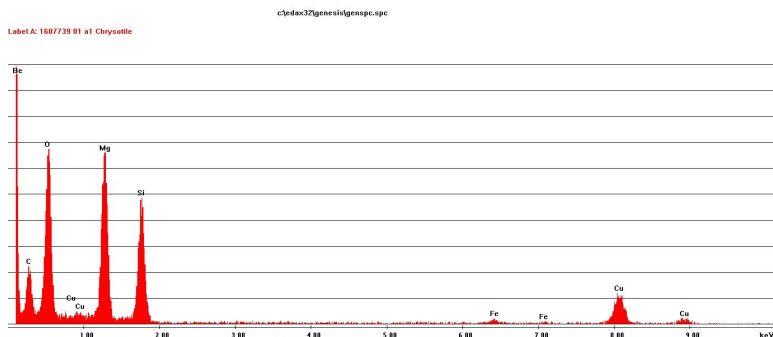
Chrysotile:	43.98	<AS
Amosite:	<AS	<AS
Crocidolite:	<AS	<AS
Act-Tremolite <sup>†</sup> :	<AS	<AS
Anthophyllite:	<AS	<AS
<b>Total Asbestos:</b>	<b>43.98</b>	<b>&lt;AS</b>

**NOTES**

The extremely high concentration of suspended solids in sample L1802392-2 R3 prohibited filtration of sufficient volume to reach the recommended AS of <0.20 MFL.

**EDXA SPECTRA**

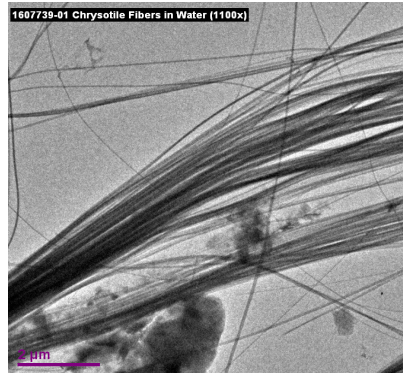
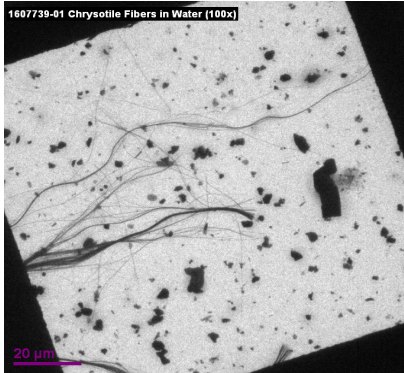
NOTE: Spurious peaks may originate from low background sample holder, column pole pieces, TEM grids, prep solutions or matrix materials.





## PHOTOMICROGRAPHS

Collected using Gatan Digital Micrograph.





29-Jul-2016

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

Tel: (604) 253-4188  
Fax:

Re: L1802392

Work Order: **1607739**

Dear Brent,

ALS Environmental received 11 samples on 26-Jul-2016 10:00 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 17.

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

Sincerely,

**Shawn Smythe**

Electronically approved by: Rob Nieman

Shawn Smythe  
Project Manager

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

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

Client: ALS Environmental  
Project: L1802392  
Work Order: 1607739

**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>
1607739-01	L1802392-1	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-02	L1802392-2	Water		7/19/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-02	L1802392-2	Water		7/19/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-03	L1802392-3	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-04	L1802392-4	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-05	L1802392-5	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-06	L1802392-6	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-07	L1802392-7	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-08	L1802392-8	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-09	L1802392-9	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-10	L1802392-10	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>
1607739-11	L1802392-11	Water		7/20/2016	7/26/2016 10:00	<input type="checkbox"/>

---

**Client:** ALS Environmental

**Project:** L1802392

**Work Order:** 1607739

**Case Narrative**

---

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

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

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.

**ALS Environmental**

Date: 29-Jul-16

Client: ALS Environmental

Project: L1802392

Work Order: 1607739

Sample ID: L1802392-1

Lab ID: 1607739-01

Collection Date: 7/20/2016

Matrix: WATER

---

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: rmb
Total suspended solids	7.9		2.0	mg/L	1	7/27/2016

---

Note:

# ALS Environmental

Date: 29-Jul-16

Client: ALS Environmental  
Project: L1802392  
Sample ID: L1802392-2  
Collection Date: 7/19/2016

Work Order: 1607739  
Lab ID: 1607739-02  
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: rmb
Total suspended solids	140		2.0	mg/L	1	7/27/2016

Note:

# ALS Environmental

Date: 29-Jul-16

Client: ALS Environmental  
Project: L1802392  
Sample ID: L1802392-3  
Collection Date: 7/20/2016

Work Order: 1607739  
Lab ID: 1607739-03  
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: rmb
Total suspended solids	78		2.0	mg/L	1	7/27/2016

Note:

# ALS Environmental

Date: 29-Jul-16

Client: ALS Environmental  
Project: L1802392  
Sample ID: L1802392-4  
Collection Date: 7/20/2016

Work Order: 1607739  
Lab ID: 1607739-04  
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: rmb
Total suspended solids	4.8		2.0	mg/L	1	7/27/2016

Note:



**ALS Environmental**

Date: 29-Jul-16

Client: ALS Environmental

Project: L1802392

Work Order: 1607739

Sample ID: L1802392-5

Lab ID: 1607739-05

Collection Date: 7/20/2016

Matrix: WATER

---

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: rmb
Total suspended solids	ND		2.0	mg/L	1	7/27/2016

---

Note:

**ALS Environmental**

Date: 29-Jul-16

**Client:** ALS Environmental  
**Project:** L1802392  
**Sample ID:** L1802392-6  
**Collection Date:** 7/20/2016

**Work Order:** 1607739  
**Lab ID:** 1607739-06  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: rmb
Total suspended solids	ND		2.0	mg/L	1	7/27/2016

---

**Note:**

# ALS Environmental

Date: 29-Jul-16

**Client:** ALS Environmental  
**Project:** L1802392  
**Sample ID:** L1802392-7  
**Collection Date:** 7/20/2016

**Work Order:** 1607739  
**Lab ID:** 1607739-07  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: <b>rmb</b>
Total suspended solids	ND		2.0	mg/L	1	7/27/2016

Note:

**ALS Environmental**

**Date:** 29-Jul-16

**Client:** ALS Environmental

**Project:** L1802392

**Work Order:** 1607739

**Sample ID:** L1802392-8

**Lab ID:** 1607739-08

**Collection Date:** 7/20/2016

**Matrix:** WATER

---

<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>Report Limit</b>	<b>Units</b>	<b>Dilution Factor</b>	<b>Date Analyzed</b>
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: <b>rmb</b>
Total suspended solids	ND		2.0	mg/L	1	7/27/2016

---

**Note:**

**ALS Environmental**

Date: 29-Jul-16

**Client:** ALS Environmental  
**Project:** L1802392  
**Sample ID:** L1802392-9  
**Collection Date:** 7/20/2016

**Work Order:** 1607739  
**Lab ID:** 1607739-09  
**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: rmb
Total suspended solids	ND		2.0	mg/L	1	7/27/2016

---

**Note:**

# ALS Environmental

Date: 29-Jul-16

Client: ALS Environmental  
Project: L1802392  
Sample ID: L1802392-10  
Collection Date: 7/20/2016

Work Order: 1607739  
Lab ID: 1607739-10  
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: rmb
Total suspended solids	2.2		2.0	mg/L	1	7/27/2016

Note:

**ALS Environmental**

**Date:** 29-Jul-16

**Client:** ALS Environmental

**Project:** L1802392

**Work Order:** 1607739

**Sample ID:** L1802392-11

**Lab ID:** 1607739-11

**Collection Date:** 7/20/2016

**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TOTAL SUSPENDED SOLIDS BY SM2540 D</b>			<b>SM2540 D</b>			Analyst: <b>rmb</b>
Total suspended solids	ND		2.0	mg/L	1	7/27/2016

**Note:**

**Client:** ALS Environmental  
**Work Order:** 1607739  
**Project:** L1802392

**QC BATCH REPORT**

Batch ID: **R131436** Instrument ID: **WETCHEM** Method: **SM2540 D**

<b>MBLK</b>	Sample ID: <b>MB-R131436-R131436</b>		Units: <b>mg/L</b>		Analysis Date: <b>7/27/2016</b>					
Client ID:	Run ID: <b>WETCHEM_160727A</b>		SeqNo: <b>1327526</b>		Prep Date: DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total suspended solids ND 2.0

<b>LCS</b>	Sample ID: <b>LCS-R131436-R131436</b>		Units: <b>mg/L</b>		Analysis Date: <b>7/27/2016</b>					
Client ID:	Run ID: <b>WETCHEM_160727A</b>		SeqNo: <b>1327527</b>		Prep Date: DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total suspended solids 1020 2.0 1000 0 102 70-130 0

<b>DUP</b>	Sample ID: <b>1607739-10A Dup</b>		Units: <b>mg/L</b>		Analysis Date: <b>7/27/2016</b>					
Client ID: <b>L1802392-10</b>	Run ID: <b>WETCHEM_160727A</b>		SeqNo: <b>1327538</b>		Prep Date: DF: <b>1</b>					
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 2.24 0

<b>DUP</b>	Sample ID: <b>1607739-11A Dup</b>		Units: <b>mg/L</b>		Analysis Date: <b>7/27/2016</b>					
Client ID: <b>L1802392-11</b>	Run ID: <b>WETCHEM_160727A</b>		SeqNo: <b>1327540</b>		Prep Date: DF: <b>1</b>					
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 1.38 0

The following samples were analyzed in this batch:

1607739-01B	1607739-02B	1607739-03A
1607739-04A	1607739-05A	1607739-06A
1607739-07A	1607739-08A	1607739-09A
1607739-10A	1607739-11A	



**Client:** ALS Environmental  
**Project:** L1802392  
**WorkOrder:** 1607739

**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: **26-Jul-16 10:00**

Work Order: **1607739**

Received by: **CEG**

Checklist completed by: Shawn Smythe 27-Jul-16  
eSignature Date

Reviewed by: Shawn Smythe 27-Jul-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):

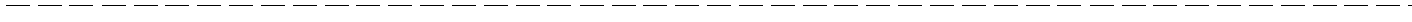
Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

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

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes: **Samples not relinquished.**



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



**Chain of Custody (COC) / Analytical Request Form**

Canada Toll Free: 1 800 668 9878

www.alsglobal.com



L1802392-COFC

COC Number: 1

Page 1 of 1

<b>Report To</b>		<b>Report Format</b>		<b>Analysis Request</b>																
Company: Hemmera Environchem Inc.		Select Report Format: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> DIGITAL		* (Rush Turnaround Time (TAT) is not available for all tests)																
Contact: Natasha Sandys		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Regular (standard TAT if received by 3 pm - business days) <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge																
Address: 230 - 2237 2nd Avenue Whitehorse, YT		Criteria on Report - provide details below if box checked																		
Phone: 867-456-4865		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX																		
Email 1 or Fax nsandys@hemmera.com		Email 1 or Fax nsandys@hemmera.com		Specify Date Required for E2,E or P:																
Email 2 chris@elr.ca		Email 2 chris@elr.ca																		
<b>Invoice To</b>		<b>Invoice Distribution</b>		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																
Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input checked="" type="checkbox"/> MAIL <input type="checkbox"/> FAX																		
Copy of Invoice with Report <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Email 1 or Fax nsandys@hemmera.com																		
Company: Hemmera Environchem Inc.		Email 2 chris@elr.ca																		
Contact: Natasha Sandys		Email 2 chris@elr.ca																		
<b>Project Information</b>		<b>Oil and Gas Required Fields (client use)</b>																		
ALS Quote #: Q56044		Approver ID:																		
Job #: 1343-005.18		GL Account:																		
PO / AFE:		Activity Code:																		
LSD:		Location:																		
ALS Lab Work Order # (lab use only)		ALS Contact:		Sampler: AN/CH																
<b>ALS Sample # (lab use only)</b>	<b>Sample identification and/or Coordinates (This description will appear on the report)</b>			<b>Date (dd-mmm-yy)</b>	<b>Time (hh:mm)</b>	<b>Sample Type</b>	Low Level Diss. Met (incl. Hg) and Hardness	Low Level Tot. Met (incl. Hg) and Hardness	Chromium Speciation (III/VI) - Total	Chromium Speciation (III/VI) - Dissolved	Ammonia - N	Dissolved Organic Carbon (DOC)	Nitrate-N	Nitrite - N	Total Phosphorus	Sulphate	pH, Conductivity	Asbestos-TEM-AD	Total Suspended Solids	Number of Containers
E3				20-Jul-16	8:05	Water	R	R			R	R	R	R	R	R	R	R	R	11
R3				19-Jul-16	16:50	Water	R	R			R	R	R	R	R	R	R	R	R	11
R7				20-Jul-16	13:20	Water	R	R			R	R	R	R	R	R	R	R	R	10
R11				19-Jul-16	14:30	Water	R	R			R	R	R	R	R	R	R	R	R	10
GWCC-1				20-Jul-16	17:15	Water	R	R			R	R	R	R	R	R	R	R	R	10
GWCC-2				20-Jul-16	16:50	Water	R	R			R	R	R	R	R	R	R	R	R	10
GWCC-3				20-Jul-16	16:15	Water	R	R			R	R	R	R	R	R	R	R	R	10
GWCC-4				20-Jul-16	17:45	Water	R	R			R	R	R	R	R	R	R	R	R	10
Travel Blank								R			R	R	R	R	R	R	R	R	R	7
Dup1				20-Jul-16	16:15	Water	R	R			R	R	R	R	R	R	R	R	R	10
FB-1				20-Jul-16	8:05	Water	R	R			R	R	R	R	R	R	R	R	R	10
<b>Drinking Water (DW) Samples<sup>1</sup> (client use)</b>				<b>Special Instructions / Specify Criteria to add on report (client use)</b>				<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>												
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Please hold samples for total and dissolved Chromium III/VI pending regular metals analysis results. Please supply ELR EQWIN EDD file with results.				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 checked="" type="checkbox"/> No								Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>												
								Cooling Initiated <input checked="" type="checkbox"/>												
								INITIAL COOLER TEMPERATURES °C						FINAL COOLER TEMPERATURES °C						
								0.8   1.0												
<b>SHIPMENT RELEASE (client use)</b>				<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>				<b>FINAL SHIPMENT RECEPTION (lab use only)</b>												
Released by:		Date: Jul 22	Time: 10:30	Received by:		Date: 22-Jul-16	Time: 10:30	Received by:				Date:				Time:				