

HEMMERA ENVIROCHEM INC. ATTN: Natasha Sandys 230 - 2237 2nd Avenue Whitehorse YK Y1A 0K7 Date Received: 05-FEB-16 Report Date: 16-FEB-16 17:13 (MT) Version: FINAL

Client Phone: 867-456-4865

Certificate of Analysis

Lab Work Order #: L1731464

Project P.O. #: Job Reference: C of C Numbers: Legal Site Desc: NOT SUBMITTED 1343-005.14 1

Comments:

Brent Mack, B.Sc. Account Manager

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	Sample ID Description Sampled Date Sampled Time Client ID	L1731464-1 Water 03-FEB-16 16:40 MW09-22	L1731464-2 Water 03-FEB-16 16:45 MW09-01	L1731464-3 Water 02-FEB-16 17:00 MW09-01	L1731464-4 Water 03-FEB-16 15:40 MW09-23	L1731464-5 Water 03-FEB-16 10:30 MW09-04
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	519	3000		1360	2680
	Hardness (as CaCO3) (mg/L)	246		1550	788	1700
	рН (рН)	6.85	7.36		7.22	8.08
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	178	510		319	108
	Ammonia, Total (as N) (mg/L)	1.15	16.3		3.24	7.38
	Chloride (Cl) (mg/L)	<0.50	<5.0 DLA		<1.0 DLA	<5.0
	Fluoride (F) (mg/L)	0.040	<0.20		0.076	0.33
	Nitrate (as N) (mg/L)	3.79	<0.050		0.017	OLA <0.050
	Nitrite (as N) (mg/L)	0.0470	DLA <0.010		0.0049	DLA <0.010
	Total Kjeldahl Nitrogen (mg/L)	13.2	22.5		4.00	8.10
	Sulfate (SO4) (mg/L)	79.7	1220		503	1740
	Sulphide as S (mg/L)	<0.020	<0.020		0.053	<0.020
	Anion Sum (meq/L)	5.50			16.8	38.4
	Cation Sum (meq/L)	6.09			18.5	37.3
	Cation - Anion Balance (%)	5.1			4.7	-1.4
Cyanides	Cyanide, Weak Acid Diss (mg/L)	_{DLM}	<0.0050		<0.0050	<0.0050
	Cyanide, Total (mg/L)	0.021	0.207		0.289	<0.0050
	Thiocyanate (SCN) (mg/L)	<0.50	23.7		<0.50	<0.50
	Cyanide, Free (mg/L)	_{DLM}	<0.0050		<0.0050	<0.0050
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	47.7	130		82.2	19.8
	Total Organic Carbon (mg/L)	266	59.8		19.4	6.00
Total Metals	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Bismuth (Bi)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					

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	Sample ID Description Sampled Date Sampled Time Client ID	L1731464-6 Water 03-FEB-16 10:30 MW16-200	L1731464-7 Water 03-FEB-16 13:00 MW09-03	L1731464-8 Water 03-FEB-16 10:15 MW09-14	L1731464-9 Water 04-FEB-16 10:00 MP09-09	L1731464-10 Water 04-FEB-16 10:30 MP09-10
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	2710	2650	1390	702	822
	Hardness (as CaCO3) (mg/L)	1710	1650	999	313	408
	рН (рН)	8.09	7.60	7.84	8.81	7.78
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	106	167	381	79.2	61.9
	Ammonia, Total (as N) (mg/L)	7.38	3.43	0.0614	4.67	
	Chloride (Cl) (mg/L)	<5.0	<5.0 DLA	3.6	2.97	2.48
	Fluoride (F) (mg/L)	0.30	0.22	0.059	1.71	0.924
	Nitrate (as N) (mg/L)	DLA <0.050	0.051	1.74	0.0215	0.0632
	Nitrite (as N) (mg/L)	DLA <0.010	0.071	0.0075	0.0033	0.805
	Total Kjeldahl Nitrogen (mg/L)	7.93	3.99	0.635	6.81	
	Sulfate (SO4) (mg/L)	1720	1640	448	255	341
	Sulphide as S (mg/L)	<0.020	<0.020	0.032	<0.020	
	Anion Sum (meq/L)	37.9	37.4	17.2	7.07	8.52
	Cation Sum (meq/L)	37.3	36.4	22.7	8.17	9.71
	Cation - Anion Balance (%)	-0.8	-1.4	13.8	7.2	6.6
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	<0.0050	0.604	
	Cyanide, Total (mg/L)	<0.0050	0.0190	<0.0050	4.10	
	Thiocyanate (SCN) (mg/L)	<0.50	<0.50	<0.50	1.15	
	Cyanide, Free (mg/L)	<0.0050	<0.0050	<0.0050	0.532	
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	21.3	41.0	114	12.4	
	Total Organic Carbon (mg/L)	5.96	6.34	8.59	45.2	
Total Metals	Aluminum (Al)-Total (mg/L)					
	Antimony (Sb)-Total (mg/L)					
	Arsenic (As)-Total (mg/L)					
	Barium (Ba)-Total (mg/L)					
	Beryllium (Be)-Total (mg/L)					
	Bismuth (Bi)-Total (mg/L)					
	Boron (B)-Total (mg/L)					
	Cadmium (Cd)-Total (mg/L)					
	Calcium (Ca)-Total (mg/L)					
	Chromium (Cr)-Total (mg/L)					
	Cobalt (Co)-Total (mg/L)					
	Copper (Cu)-Total (mg/L)					
	Iron (Fe)-Total (mg/L)					
	Lead (Pb)-Total (mg/L)					
	Lithium (Li)-Total (mg/L)					

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	Sample ID Description Sampled Date Sampled Time Client ID	L1731464-11 Water 04-FEB-16 09:15 MW09-06	L1731464-12 Water 04-FEB-16 TRIP BLANK	
Grouping	Analyte			
WATER				
Physical Tests	Conductivity (uS/cm)	1900	<2.0	
	Hardness (as CaCO3) (mg/L)	1100	<0.50	
	рН (рН)	7.77	5.39	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	98.4	<1.0	
	Ammonia, Total (as N) (mg/L)	0.483	RRV 0.0056	
	Chloride (Cl) (mg/L)	DLA <2.5	<0.50	
	Fluoride (F) (mg/L)	0.19	<0.020	
	Nitrate (as N) (mg/L)	0.121	<0.0050	
	Nitrite (as N) (mg/L)	DLA <0.0050	<0.0010	
	Total Kjeldahl Nitrogen (mg/L)	1.03	<0.050	
	Sulfate (SO4) (mg/L)	1110	<0.30	
	Sulphide as S (mg/L)	<0.020	<0.020	
	Anion Sum (meq/L)	25.0	<0.10	
	Cation Sum (meq/L)	23.5	<0.10	
	Cation - Anion Balance (%)	-3.3	0.0	
Cyanides	Cyanide, Weak Acid Diss (mg/L)	<0.0050	<0.0050	
	Cyanide, Total (mg/L)	<0.0050	<0.0050	
	Thiocyanate (SCN) (mg/L)	<0.50	<0.50	
	Cyanide, Free (mg/L)	<0.0050	<0.0050	
Organic / Inorganic Carbon	Total Inorganic Carbon (mg/L)	21.5	<0.50	
	Total Organic Carbon (mg/L)	8.18	<0.50	
Total Metals	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)		<0.000050	
	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	

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	Sample ID Description Sampled Date Sampled Time Client ID	L1731464-1 Water 03-FEB-16 16:40 MW09-22	L1731464-2 Water 03-FEB-16 16:45 MW09-01	L1731464-3 Water 02-FEB-16 17:00 MW09-01	L1731464-4 Water 03-FEB-16 15:40 MW09-23	L1731464-5 Water 03-FEB-16 10:30 MW09-04
Grouping	Analyte					
WATER						
Total Metals	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Phosphorus (P)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silicon (Si)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Strontium (Sr)-Total (mg/L)					
	Sulfur (S)-Total (mg/L)					
	Thallium (TI)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
	Zirconium (Zr)-Total (mg/L)					
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD		FIELD	FIELD	FIELD
	Dissolved Metals Filtration Location	FIELD		FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0307		0.0151	0.0357	DLA <0.0020
	Antimony (Sb)-Dissolved (mg/L)	0.00026		0.0219	0.00023	0.273
	Arsenic (As)-Dissolved (mg/L)	0.00326		0.0989	0.0284	3.84
	Barium (Ba)-Dissolved (mg/L)	0.0493		0.0319	0.0419	0.00977
	Beryllium (Be)-Dissolved (mg/L)	<0.000020		0.000072	0.000042	DLA <0.000040
	Bismuth (Bi)-Dissolved (mg/L)	<0.000050		DLA <0.00010	DLA <0.00010	DLA <0.00010
	Boron (B)-Dissolved (mg/L)	0.032		0.126	0.105	0.270
	Cadmium (Cd)-Dissolved (mg/L)	0.0000246		0.0122	0.000045	0.000026
	Calcium (Ca)-Dissolved (mg/L)	85.5		530	198	484
	Chromium (Cr)-Dissolved (mg/L)	0.00058		0.00020	0.00045	DLA <0.00020
	Cobalt (Co)-Dissolved (mg/L)	0.00412		0.0279	0.0151	0.00101
	Copper (Cu)-Dissolved (mg/L)	0.00287		0.00870	ola <0.00040	DLA <0.00040
	Iron (Fe)-Dissolved (mg/L)	4.09		0.016	13.1	<0.010
	Lead (Pb)-Dissolved (mg/L)	0.000078		0.00516	<0.00010	0.00029
	Lithium (Li)-Dissolved (mg/L)	<0.0010		0.0032	<0.0020	0.0102

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	Sample ID Description Sampled Date Sampled Time Client ID	L1731464-6 Water 03-FEB-16 10:30 MW16-200	L1731464-7 Water 03-FEB-16 13:00 MW09-03	L1731464-8 Water 03-FEB-16 10:15 MW09-14	L1731464-9 Water 04-FEB-16 10:00 MP09-09	L1731464-10 Water 04-FEB-16 10:30 MP09-10
Grouping	Analyte					
WATER						
Total Metals	Magnesium (Mg)-Total (mg/L)					
	Manganese (Mn)-Total (mg/L)					
	Mercury (Hg)-Total (mg/L)					
	Molybdenum (Mo)-Total (mg/L)					
	Nickel (Ni)-Total (mg/L)					
	Phosphorus (P)-Total (mg/L)					
	Potassium (K)-Total (mg/L)					
	Selenium (Se)-Total (mg/L)					
	Silicon (Si)-Total (mg/L)					
	Silver (Ag)-Total (mg/L)					
	Sodium (Na)-Total (mg/L)					
	Strontium (Sr)-Total (mg/L)					
	Sulfur (S)-Total (mg/L)					
	Thallium (TI)-Total (mg/L)					
	Tin (Sn)-Total (mg/L)					
	Titanium (Ti)-Total (mg/L)					
	Uranium (U)-Total (mg/L)					
	Vanadium (V)-Total (mg/L)					
	Zinc (Zn)-Total (mg/L)					
	Zirconium (Zr)-Total (mg/L)					
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)	DLA <0.0020	0.0061	0.0021	0.0039	0.0024
	Antimony (Sb)-Dissolved (mg/L)	0.269	0.521	0.00020	0.0941	0.0890
	Arsenic (As)-Dissolved (mg/L)	3.88	1.66	0.0134	17.0	6.26
	Barium (Ba)-Dissolved (mg/L)	0.0101	0.0291	0.0364	0.00103	0.0101
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.000040	DLA <0.00010	<0.000020	DLA <0.000040	<0.000020
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.00010	DLA <0.00025	<0.000050	DLA <0.00010	<0.000050
	Boron (B)-Dissolved (mg/L)	0.267	0.185	0.011	0.163	0.188
	Cadmium (Cd)-Dissolved (mg/L)	0.000029	0.00121	0.0000251	0.000179	0.000688
	Calcium (Ca)-Dissolved (mg/L)	486	520	180	124	161
	Chromium (Cr)-Dissolved (mg/L)	DLA <0.00020	DLA <0.00050	0.00019	DLA <0.00020	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00101	0.00307	0.00156	0.0534	0.0328
	Copper (Cu)-Dissolved (mg/L)	DLA <0.00040	0.0010	0.00060	0.578	0.0469
	Iron (Fe)-Dissolved (mg/L)	<0.010	0.057	7.25	0.192	0.057
	Lead (Pb)-Dissolved (mg/L)	0.00028	DLA <0.00025	0.000130	0.00076	0.000603
	Lithium (Li)-Dissolved (mg/L)	0.0105	DLA <0.0050	0.0115	DLA <0.0020	0.0011

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	Sample ID Description Sampled Date Sampled Time Client ID	L1731464-11 Water 04-FEB-16 09:15 MW09-06	L1731464-12 Water 04-FEB-16 TRIP BLANK		
Grouping	Analyte				
WATER					
Total Metals	Magnesium (Mg)-Total (mg/L)		<0.10		
	Manganese (Mn)-Total (mg/L)		<0.00010		
	Mercury (Hg)-Total (mg/L)		<0.000050		
	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		
	Strontium (Sr)-Total (mg/L)		<0.00020		
	Sulfur (S)-Total (mg/L)		<0.50		
	Thallium (TI)-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		
Dissolved Metals	Dissolved Mercury Filtration Location	FIELD			
	Dissolved Metals Filtration Location	FIELD			
	Aluminum (AI)-Dissolved (mg/L)	0.0023			
	Antimony (Sb)-Dissolved (mg/L)	0.250			
	Arsenic (As)-Dissolved (mg/L)	0.211			
	Barium (Ba)-Dissolved (mg/L)	0.00968			
	Beryllium (Be)-Dissolved (mg/L)	DLA <0.000040			
	Bismuth (Bi)-Dissolved (mg/L)	DLA <0.00010			
	Boron (B)-Dissolved (mg/L)	0.101			
	Cadmium (Cd)-Dissolved (mg/L)	0.00513			
	Calcium (Ca)-Dissolved (mg/L)	358			
	Chromium (Cr)-Dissolved (mg/L)	0.00036			
	Cobalt (Co)-Dissolved (mg/L)	0.00165			
	Copper (Cu)-Dissolved (mg/L)	0.00761			
	Iron (Fe)-Dissolved (mg/L)	<0.010			
	Lead (Pb)-Dissolved (mg/L)	0.00058			
	Lithium (Li)-Dissolved (mg/L)	0.0087			

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Sample ID Description Sampled Date Sampled Time Client ID	L1731464-1 Water 03-FEB-16 16:40 MW09-22	L1731464-2 Water 03-FEB-16 16:45 MW09-01	L1731464-3 Water 02-FEB-16 17:00 MW09-01	L1731464-4 Water 03-FEB-16 15:40 MW09-23	L1731464-5 Water 03-FEB-16 10:30 MW09-04
Analyte					
Magnesium (Mg)-Dissolved (mg/L)	7.81		55.9	71.5	120
Manganese (Mn)-Dissolved (mg/L)	1.89		13.7		7.01
Mercury (Hg)-Dissolved (mg/L)	0.0000067		<0.0000050	<0.0000050	<0.0000050
Molybdenum (Mo)-Dissolved (mg/L)	0.000180		0.00234	0.00242	0.00589
Nickel (Ni)-Dissolved (mg/L)	0.00063		0.0071	DLA <0.0010	DLA <0.0010
Phosphorus (P)-Dissolved (mg/L)	<0.050		<0.050	<0.050	0.096
Potassium (K)-Dissolved (mg/L)	3.00		15.5	7.79	43.3
Selenium (Se)-Dissolved (mg/L)	0.000121		0.00018	DLA <0.00010	DLA <0.00010
Silicon (Si)-Dissolved (mg/L)	4.46		6.95	6.37	14.5
Silver (Ag)-Dissolved (mg/L)	0.000046		0.000068	DLA <0.000020	DLA <0.000020
Sodium (Na)-Dissolved (mg/L)	16.8		156	23.7	32.6
Strontium (Sr)-Dissolved (mg/L)	0.266		1.23	0.530	1.36
Sulfur (S)-Dissolved (mg/L)	26.1		523	173	547
Thallium (TI)-Dissolved (mg/L)	<0.000010		0.000791	DLA <0.000020	0.000138
Tin (Sn)-Dissolved (mg/L)	<0.00010		DLA <0.00020	DLA <0.00020	_{DL} 0.00020
Titanium (Ti)-Dissolved (mg/L)	DLM <0.0015		DLA <0.00060	0.00135	_{DL/} <0.00060
Uranium (U)-Dissolved (mg/L)	0.000259		0.00273	0.00189	0.000297
Vanadium (V)-Dissolved (mg/L)	0.00077		DLA <0.0010	0.0024	_{DL} <0.0010
Zinc (Zn)-Dissolved (mg/L)	0.0126		0.968	0.0916	0.0931
Zirconium (Zr)-Dissolved (mg/L)	0.00038		ol.00060	0.00069	<0.00060
	Description Sampled Date Sampled Time Client IDAnalyteMagnesium (Mg)-Dissolved (mg/L)Manganese (Mn)-Dissolved (mg/L)Mercury (Hg)-Dissolved (mg/L)Molybdenum (Mo)-Dissolved (mg/L)Molybdenum (Mo)-Dissolved (mg/L)Nickel (Ni)-Dissolved (mg/L)Phosphorus (P)-Dissolved (mg/L)Selenium (Se)-Dissolved (mg/L)Silicon (Si)-Dissolved (mg/L)Siliver (Ag)-Dissolved (mg/L)Sodium (Na)-Dissolved (mg/L)Sulfur (S)-Dissolved (mg/L)Sulfur (S)-Dissolved (mg/L)Thallium (TI)-Dissolved (mg/L)Titanium (Ti)-Dissolved (mg/L)Vanadium (V)-Dissolved (mg/L)Vanadium (V)-Dissolved (mg/L)Vanadium (V)-Dissolved (mg/L)Zinc (Zn)-Dissolved (mg/L)	Description Sampled Date Sampled Time Client IDWater 03-FEB-16 16:40 MW09-22AnalyteMagnesium (Mg)-Dissolved (mg/L)7.81 1.89Marganese (Mn)-Dissolved (mg/L)0.0000067 0.0000067Molybdenum (Mo)-Dissolved (mg/L)0.000180 0.000180Nickel (Ni)-Dissolved (mg/L)0.000180 0.000180Nickel (Ni)-Dissolved (mg/L)0.000180 0.000180Selenium (Se)-Dissolved (mg/L)0.000121 3.00Silicon (Si)-Dissolved (mg/L)0.000046 16.8Sodium (Na)-Dissolved (mg/L)0.000046 0.000121Silicon (Si)-Dissolved (mg/L)0.266 0.000046Sodium (Na)-Dissolved (mg/L)0.266 0.000010Tin (Sn)-Dissolved (mg/L)0.00010 Titanium (Ti)-Dissolved (mg/L)0.00010 0.00015Uranium (U)-Dissolved (mg/L)0.000259 0.000259Vanadium (V)-Dissolved (mg/L)0.00077 0.0126	Description Sampled Date Sampled Time Client IDWater 03-FEB-16 16:40 MW09-22Water 03-FEB-16 16:40 MW09-22Analyte	Description Sampled Date Sampled Time Client IDWater 03-FEB-16 16:40 MW09-01Water 02-FEB-16 16:45 MW09-01Water 02-FEB-16 17:00 MW09-01AnalyteTFFFMagnesium (Mg)-Dissolved (mg/L)7.81 0.00006755.9 0.00005055.9 0.000050Magnese (Mn)-Dissolved (mg/L)0.000067 0.000067<0.0000050 0.000234Molybdenum (Mo)-Dissolved (mg/L)0.000180 0.0001800.00234 0.00234Nickel (Ni)-Dissolved (mg/L)0.000180 0.0001800.00234 0.000180Posphorus (P)-Dissolved (mg/L)0.000121 	Description Sampled Date Sampled Time Client ID Water 03-FEB-16 16.40 MW09-22 Water 03-FEB-16 16.40 MW09-01 Water 02-FEB-16 MW09-01 Water 02-FEB-16 MW09-01 Water 03-FEB-16 MW09-01 Analyte ////////////////////////////////////

L1731464 CONTD.... PAGE 9 of 14 16-FEB-16 17:13 (MT) Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L1731464-6 Water 03-FEB-16 10:30 MW16-200	L1731464-7 Water 03-FEB-16 13:00 MW09-03	L1731464-8 Water 03-FEB-16 10:15 MW09-14	L1731464-9 Water 04-FEB-16 10:00 MP09-09	L1731464-10 Water 04-FEB-16 10:30 MP09-10
Grouping	Analyte					
WATER						
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)	119	86.4	133	0.86	1.57
	Manganese (Mn)-Dissolved (mg/L)	6.89	32.9	1.26	0.0182	0.190
	Mercury (Hg)-Dissolved (mg/L)	<0.0000050	<0.0000050	<0.0000050	0.0000328	0.0000881
	Molybdenum (Mo)-Dissolved (mg/L)	0.00563	0.00435	0.000758	0.0216	0.0180
	Nickel (Ni)-Dissolved (mg/L)	DLA <0.0010	DLA <0.0025	0.00248	0.0276	0.00889
	Phosphorus (P)-Dissolved (mg/L)	0.090	0.053	0.091	0.333	0.255
	Potassium (K)-Dissolved (mg/L)	41.3	22.6	4.85	12.0	11.2
	Selenium (Se)-Dissolved (mg/L)	DLA <0.00010	DLA <0.00025	0.000084	0.00103	0.00156
	Silicon (Si)-Dissolved (mg/L)	14.4	13.6	6.87	6.81	6.31
	Silver (Ag)-Dissolved (mg/L)	DLA <0.000020	DLA <0.000050	<0.000010	0.0193	0.00272
	Sodium (Na)-Dissolved (mg/L)	31.9	29.6	49.5	28.6	28.9
	Strontium (Sr)-Dissolved (mg/L)	1.35	1.38	1.35	0.189	0.269
	Sulfur (S)-Dissolved (mg/L)	546	535	193	92.4	125
	Thallium (TI)-Dissolved (mg/L)	0.000127	0.000077	<0.000010	0.000053	0.000118
	Tin (Sn)-Dissolved (mg/L)	DLA <0.00020	DLA <0.00050	0.00386	DLA <0.00020	0.00016
	Titanium (Ti)-Dissolved (mg/L)	DLA <0.00060	DLA <0.0015	<0.00030	DLA <0.00060	<0.00030
	Uranium (U)-Dissolved (mg/L)	0.000287	0.00219	0.0193	0.00134	0.00142
	Vanadium (V)-Dissolved (mg/L)	DLA <0.0010	DLA <0.0025	0.00067	DLA <0.0010	<0.00050
	Zinc (Zn)-Dissolved (mg/L)	0.0943	0.0061	0.0026	DLA <0.0020	0.0094
	Zirconium (Zr)-Dissolved (mg/L)	DLA <0.00060	<0.0015	0.00073	<0.00060	<0.00030

L1731464 CONTD.... PAGE 10 of 14 16-FEB-16 17:13 (MT) Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L1731464-11 Water 04-FEB-16 09:15 MW09-06	L1731464-12 Water 04-FEB-16 TRIP BLANK		
Grouping	Analyte				
WATER					
Dissolved Metals	Magnesium (Mg)-Dissolved (mg/L)	50.5			
	Manganese (Mn)-Dissolved (mg/L)	5.33			
	Mercury (Hg)-Dissolved (mg/L)	<0.000050			
	Molybdenum (Mo)-Dissolved (mg/L)	0.00513			
	Nickel (Ni)-Dissolved (mg/L)	0.0014			
	Phosphorus (P)-Dissolved (mg/L)	<0.050			
	Potassium (K)-Dissolved (mg/L)	18.1			
	Selenium (Se)-Dissolved (mg/L)	DLA <0.00010			
	Silicon (Si)-Dissolved (mg/L)	6.59			
	Silver (Ag)-Dissolved (mg/L)	0.000062			
	Sodium (Na)-Dissolved (mg/L)	17.5			
	Strontium (Sr)-Dissolved (mg/L)	0.716			
	Sulfur (S)-Dissolved (mg/L)	339			
	Thallium (TI)-Dissolved (mg/L)	0.000397			
	Tin (Sn)-Dissolved (mg/L)	0.00071			
	Titanium (Ti)-Dissolved (mg/L)	DLA <0.00060			
	Uranium (U)-Dissolved (mg/L)	0.00117			
	Vanadium (V)-Dissolved (mg/L)	DLA <0.0010			
	Zinc (Zn)-Dissolved (mg/L)	0.0879			
	Zirconium (Zr)-Dissolved (mg/L)	DLA <0.00060			

L1731464 CONTD.... PAGE 11 of 14 16-FEB-16 17:13 (MT) Version: FINAL

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Method Blank	Alkalinity, Total (as CaCO3)	В	L1731464-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Method Blank	Alkalinity, Total (as CaCO3)	В	L1731464-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Method Blank	Alkalinity, Total (as CaCO3)	В	L1731464-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Method Blank	Barium (Ba)-Total	MB-LOR	L1731464-12
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1731464-1, -10, -11, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1731464-1, -10, -11, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Silicon (Si)-Dissolved	MS-B	L1731464-1, -10, -11, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfur (S)-Dissolved	MS-B	L1731464-1, -10, -11, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Nitrite (as N)	MS-B	L1731464-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1731464-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1731464-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1731464-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1731464-12
Matrix Spike	Selenium (Se)-Total	MS-B	L1731464-12
Matrix Spike	Strontium (Sr)-Total	MS-B	L1731464-12
Matrix Spike	Uranium (U)-Total	MS-B	L1731464-12
Matrix Spike	Total Inorganic Carbon	MS-B	L1731464-2, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L1731464-1, -4
Matrix Spike	Total Kjeldahl Nitrogen	MSTN	L1731464-1, -11, -12, -2, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed: Qualifier Description В Method Blank exceeds ALS DQO. All associated sample results are at least 5 times greater than blank levels and are considered reliable. DLA Detection Limit adjusted for required dilution DLM Detection Limit Adjusted due to sample matrix effects. 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. MSTN TKN Matrix Spike recovery was low due to interference from high nitrate, which causes negative bias on TKN. RRV Reported Result Verified By Repeat Analysis

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-TITR-VA	Water	Alkalinity Species by Titration	APHA 2320 Alkalinity
		edures adapted from APHA Method 2320 "Alkalinity te and hydroxide alkalinity are calculated from phere	". Total alkalinity is determined by potentiometric titration to a nolphthalein alkalinity and total alkalinity values.
BE-D-L-CCMS-VA	Water	Diss. Be (low) in Water by CRC ICPMS	APHA 3030B/6020A (mod)
Water samples are filte	red (0.45 um), p	preserved with nitric acid, and analyzed by CRC ICF	PMS.
Method Limitation (re: S	Sulfur): Sulfide a	and volatile sulfur species may not be recovered by	this method.
BE-T-L-CCMS-VA	Water	Total Be (Low) in Water by CRC ICPMS	EPA 200.2/6020A (mod)
Water samples are dige	ested with nitric	and hydrochloric acids, and analyzed by CRC ICPN	ИS.
Method Limitation (re: S	Sulfur): Sulfide a	and volatile sulfur species may not be recovered by	this method.
CARBONS-TIC-VA	Water	Total inorganic carbon by CO2 purge	APHA 5310B TOTAL ORGANIC CARBON (TOC)
This analysis is carried	out using proce	edures adapted from APHA Method 5310 "Total Org	anic Carbon (TOC)".
CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310B TOTAL ORGANIC CARBON (TOC)
This analysis is carried	out using proce	edures adapted from APHA Method 5310 "Total Org	anic Carbon (TOC)".
CL-IC-N-WR	Water	Chloride in Water by IC	EPA 300.1 (mod)
Inorganic anions are an	alyzed by Ion C	Chromatography with conductivity and/or UV detection	on.

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CN-FREE-CFA-VA	Water	Free Cyanide in water by CFA	ASTM 7237
			with Flow Injection Analysis (FIA) Utilizing Gas Diffusion t pH 6 with final determination by colourimetric analysis.
CN-SCN-VA	Water	Thiocyanate by Colour	APHA 4500-CN CYANIDE
This analysis is carried out colourimetric method.	using proced	lures adapted from APHA Method 4500-CN- M "Thiocya	anate" Thiocyanate is determined by the ferric nitrate
CN-T-CFA-VA	Water	Total Cyanide in water by CFA	ISO 14403:2002
CFA)". Total or strong acid colourimetric analysis. Metl	dissociable (nod Limitation	ures adapted from ISO Method 14403:2002 "Determina SAD) cyanide is determined by in-line UV digestion alor n: This method is susceptible to interference from thioc method, but it would be less than 1% and could be as	ng with sample distillation and final determination by yanate (SCN). If SCN is present in the sample, there
CN-WAD-CFA-VA	Water	Weak Acid Diss. Cyanide in water by CFA	APHA 4500-CN CYANIDE
		ures adapted from APHA Method 4500-CN I. "Weak Ad sample distillation with final determination by colourime	
EC-PCT-VA	Water	Conductivity (Automated)	APHA 2510 Auto. Conduc.
This analysis is carried out electrode.	using proced	lures adapted from APHA Method 2510 "Conductivity".	Conductivity is determined using a conductivity
F-IC-N-WR	Water	Fluoride in Water by IC	EPA 300.1 (mod)
Inorganic anions are analyz	zed by Ion Ch	romatography with conductivity and/or UV detection.	
HARDNESS-CALC-VA	Water	Hardness	APHA 2340B
Hardness (also known as T		s) is calculated from the sum of Calcium and Magnesiu centrations are preferentially used for the hardness calc	
HG-D-CVAA-VA	Water	Diss. Mercury in Water by CVAAS or CVAFS	APHA 3030B/EPA 1631E (mod)
Water samples are filtered with stannous chloride, and		eserved with hydrochloric acid, then undergo a cold-oxi CVAAS or CVAFS.	dation using bromine monochloride prior to reduction
HG-T-CVAA-VA	Water	Total Mercury in Water by CVAAS or CVAFS	EPA 1631E (mod)
Water samples undergo a o	cold-oxidatior	a using bromine monochloride prior to reduction with sta	nnous chloride, and analyzed by CVAAS or CVAFS.
IONBALANCE-VA	Water	Ion Balance Calculation	APHA 1030E
		ce (as % difference) are calculated based on guidance f queous solutions are electrically neutral, the calculated	
Cation and Anion Sums are included where data is pres		q/L concentration of major cations and anions. Dissolv ance is calculated as:	ed species are used where available. Minor ions are
Ion Balance (%) = [Cation S	Sum-Anion S	um] / [Cation Sum+Anion Sum]	
MET-D-CCMS-VA	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020A (mod)
Water samples are filtered	(0.45 um), pr	eserved with nitric acid, and analyzed by CRC ICPMS.	
Method Limitation (re: Sulfu	ur): Sulfide ar	nd volatile sulfur species may not be recovered by this n	nethod.
MET-DIS-LOW-ICP-VA	Water	Dissolved Metals in Water by ICPOES	EPA 3005A/6010B
American Public Health As	sociation, and ection Agency	lures adapted from "Standard Methods for the Examina d with procedures adapted from "Test Methods for Evalu ((EPA). The procedure involves filtration (EPA Method A Method 6010B).	uating Solid Waste" SW-846 published by the United
MET-T-CCMS-VA	Water	Total Metals in Water by CRC ICPMS	EPA 200.2/6020A (mod)
Water samples are digeste	d with nitric a	nd hydrochloric acids, and analyzed by CRC ICPMS.	
Method Limitation (re: Sulfu	ur): Sulfide ar	nd volatile sulfur species may not be recovered by this n	nethod.
MET-TOT-LOW-ICP-VA	Water	Total Metals in Water by ICPOES	EPA 3005A/6010B
American Public Health As States Environmental Prote	sociation, and ection Agency	ures adapted from "Standard Methods for the Examina d with procedures adapted from "Test Methods for Evalu (EPA). The procedures may involve preliminary samp Instrumental analysis is by inductively coupled plasma	uating Solid Waste" SW-846 published by the United le treatment by acid digestion, using either hotblock or

6010B).

VA	ALS EN\	/IRONMENTAL - VANCOUVER, BRITISH COLUMBI/	A, CANADA
Laboratory Definition Code			
		cations from specified reference methods to improve (s) indicate the laboratory that performed analytical an	•
Nitrogen is determined using bl	lock digest	tion followed by Flow-injection analysis with fluorescer	nce detection.
		TKN in Water by Fluorescence	APHA 4500-NORG D. Digestion and Flow Injection Analysis". Total Kjeldahl
		omatography with conductivity and/or UV detection.	
		Sulfate in Water by IC	EPA 300.1 (mod)
colourimetric method.			
		ures adapted from APHA Method 4500-S2 "Sulphide".	•
submitted samples, is often los all non-volatile forms of sulfur p	t during th present in		APHA 4500-S2 Sulphide
American Public Health Associ States Environmental Protectio microwave oven, or filtration (E Method 6010B).	ation, and on Agency PA Metho	d 3005A). Instrumental analysis is by inductively cour	luating Solid Waste" SW-846 published by the United ole treatment by acid digestion, using either hotblock or oled plasma - optical emission spectrophotometry (EPA
		Total Sulfur in Water by ICPOES	EPA SW-846 3005A/6010B
	st during th		er volatile forms of sulfur that may be present in data reported as total and/or dissolved sulfur represents
American Public Health Associ States Environmental Protectio	ation, and on Agency		
S-DIS-ICP-VA Wa	ater	Dissolved Sulfur in Water by ICPOES	EPA SW-846 3005A/6010B
It is recommended that this and	alysis be c	onducted in the field.	
This analysis is carried out usir electrode	ng procedu	ires adapted from APHA Method 4500-H "pH Value".	The pH is determined in the laboratory using a pH
PH-PCT-VA Wa	ater	pH by Meter (Automated)	APHA 4500-H pH Value
It is recommended that this and	alysis be c	onducted in the field.	
		ures adapted from APHA Method 4500-H "pH Value".	
PH-PCT-VA Wa	ater	pH by Meter (Automated)	APHA 4500-H "pH Value"
		omatography with conductivity and/or UV detection.	
NO3-L-IC-N-WR Wa	ater	Nitrate in Water by IC (Low Level)	EPA 300.1 (mod)
Inorganic anions are analyzed	by Ion Chr	omatography with conductivity and/or UV detection.	
al. NO2-L-IC-N-WR Wa	ater	Nitrite in Water by IC (Low Level)	EPA 300.1 (mod)
			n J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society e levels of ammonium in seawater", Roslyn J. Waston et
NH3-F-VA Wa	ater	Ammonia in Water by Fluorescence	J. ENVIRON. MONIT., 2005, 7, 37-42, RSC
of Chemistry, "Flow-injection ar al.			n J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society e levels of ammonium in seawater", Roslyn J. Waston et

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.

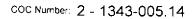
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

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.



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



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Page <u>1</u> of <u>1</u>

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Canada Toll Free: 1 800 668 9878



Report To			<u> </u>		_	L1/31404	-00	0												
Company; Hemmera Environchem Inc.			Folget Design	Report Format /					.ow (Rush Turnaround Time (TAT) is not available for all tests)											
Contact:				Select Report Format: @PoF Group (UIGITAL)				R Regular (Standard TAT if received by 3 pm - business days)												
Address:				Quality Control (QC) Report with Report Pres Pro				P Priority (2-4 bus, days If received by 3pm) 50% surcharge - contact ALS to confirm TAT												
Whitehorse, YT				Colorad Disatibulty Theory Theory -							(1-2 bus, days if received by 3pm) 100% surcharge - contact ALS to confirm TAT									
Phone: 867-456-4865												end emergency - contact ALS to confirm TAT and surcharge								
			Email 2	Email 1 or Fax nsandys@hemmera.com, jhains@hemmera.com Email 2 chris@elr.ca					pecify Date Required for E2,E or P:											
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Company:	Hemmera Environchem Inc.		Email 1 or Fax nsandys@hemmera.com				F/P					P	Ρ	P	┿	$\downarrow \downarrow \downarrow$	\vdash	┝──┦		
Contact:	Natasha Sandys		Email 2							Şi	Bala	υ	l g				!			
	Project Information			Oil and Gas Required Fields (client use)					Total Kjeldahl N (TKN)	alkalinity	i iei	Fotal, Free	Organic Carbon			1	!			ers
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Job #:	1343-005.14	<u>_</u>	GL Account:		Routing Code:	- s		ldel		Catic	1	ğ				赤			ပိ	
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			ALS Contact:	ALS Contact:		JH, DC, GR, A	d Metals	d Mercury	Nitrite, To	Sulfate, co	Anion Sum, Cation	- Weak Acid	Ammonia N (total), Total	Thiocyanate (SCN)	as S	Total Inorganic Carbon	Medals	Mercum		Nur
ALS Sample #	Sample Identification	on and/or Coordinate	es	Date	Time	· _ · · · · · · · · · · · · · · · · · ·	음	oke	9	ŝ	- Sc	ide	onia	yan	ido	Q.	-5			l
(lab use only)	(This description wi	t)	(dd-mmm-yy)	(hh:mm)	Sample Type	Dissal	Dissolved	Nitrate,	C, F,	- Si	Cyanide -	Ē	hioc	Sutphide	otal	Teles/	10/01		I	
	MW09-22		03-Feb-16	16:40	WATER	R	R	R	R	R	R	R	R	R	R	┝╌┥	-2-	\rightarrow	8	
MW09-01			•	03-Feb-16	14:45	WATER			R	R	R	R	R	R	R	R	┝──┤		ł	6
MW09-01				02-Feb-16	17:00	WATER	R	R				<u> </u>	<u> </u>	<u> </u>	<u>⊢</u>	<u> </u>	<u>+</u> +			2
MW09-23				03-Feb-16	15:40	WATER	R	R	R	R	R	R	R	R	R	R	┢──┤			
MW09-04				03-Feb-16	10:30	WATER	R	R	R	 R	R	R	R	R	R	R	┝─┤			8
MW16-200			······	03-Feb-16	10:30	WATER	R	R	R	R	R	R	R	R	R	R	┢──┤	\rightarrow		
	MW09-03			03-Feb-16	13:00	WATER	R	R	R	R	R	R	R	R	R	R	┟──┥	\rightarrow	\rightarrow	8
MW09-14				03-Feb-16	10:15	WATER	R	R	R	R	R	R	R	R	R	R	┟───╂	\rightarrow	\rightarrow	8
MP09-09				04-Feb-16	10:00	WATER	R	8	R	R	R	R	R	R	R	R	┝──╊			8
	MP09-10			04-Feb-16	10:30	WATER	R	R	R	R	R		<u> </u>		+~-		\vdash			
	MW09-06			04-Feb-16	9:15	WATER	R	R	R	R	R	R	R	R	R	R	⊢−₽		\rightarrow	<u>3</u> 8
	TRIP BLANK			04-Feb-16	-	WATER	+ ``-		R	R	R	R	R	R	2	R	R	R		
Drinking	Water (DW) Samples ¹ (client use)	Speci	al Instructions / Spec	ify Critoria to add as		<u> </u>	<u>†</u> 1					NDITI								_8
					SAMPLE CONDITION AS RECEIVED (lab use only) Frozen SIF Observations Yes No															
			meter sheet for list of	r sheet for list of full parameters and metals required.				Ice packs Yes No Custody seal intact Yes No												
Are samples for human drinking water use? I Yes มีขึ้งอ								INITIAL COOLER TEMPERATURES C FINAL COOLER TEMPERATURES C									c			
							3.300 7.4/6.9/4.0/6.							·/ .c.						
Released by,	SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)						<u> </u>							
Justin Hui	rs Feb 4, 2016	Time: Rec 12;07	pervent l	ad by: Date: Time: Received by: 19 du Date: 10:40An Received by: 19 du Date: 666						6	Time: 11:302m									

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WHITE - LABORATORY COPY
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Failure to complete all ponions 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 while - report copy.
I. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.