ENVIRONMENTAL DYNAMICS INC.
ATTN: Meighan Kearns
2195 - 2nd Avenue
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Date Received: 15-JAN-14
Report Date: 21-JAN-14 13:44 (MT)
Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1412237

Project P.O. #: NOT SUBMITTED
Job Reference: 13-Y-0452
C of C Numbers: 1, 2, 3
Legal Site Desc:

Can Dang
Senior Account Manager

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1412237-1	L1412237-2	L1412237-3	L1412237-4	L1412237-5
	Description	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	Sampled Date	14-JAN-14	14-JAN-14	14-JAN-14	14-JAN-14	14-JAN-14
	Sampled Time	13:29	13:49	13:49	14:09	14:22
	Client ID	X14	X10	X10-R	X3A	X2
Grouping	**Analyte**					
WATER						
Physical Tests	Conductivity (uS/cm)	609	298	300	290	289
	Hardness (as CaCO3) (mg/L)	327	157	153	150	145
	pH (pH)	7.95	8.03	8.02	7.95	7.88
	Total Suspended Solids (mg/L)	1.4	<1.0	<1.0	<1.0	<1.0
	Total Dissolved Solids (mg/L)	412	174	175	172	167
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	168	130	134	131	126
	Ammonia, Total (as N) (mg/L)	0.0699	0.0084	0.0088	0.0129	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.157	0.162	0.164	0.164	0.174
	Nitrate (as N) (mg/L)	0.201	0.228	0.225	0.238	0.246
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	<0.0020	0.0031	0.0036	0.0042	0.0049
	Sulfate (SO4) (mg/L)	181	33.1	33.1	32.5	33.5
	Anion Sum (meq/L)	7.14	3.30	3.39	3.33	3.24
	Cation Sum (meq/L)	6.97	3.30	3.23	3.18	3.07
	Cation - Anion Balance (%)	-1.2	0.0	-2.4	-2.3	-2.8
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.31	1.25	1.27	1.40	1.26
	Total Organic Carbon (mg/L)	1.22	1.20	1.23	1.31	1.21
Total Metals	Aluminum (Al)-Total (mg/L)	0.0335	0.0090	0.0116	0.0203	0.0215
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00047	0.00031	0.00030	0.00043	0.00054
	Barium (Ba)-Total (mg/L)	0.0705	0.0693	0.0722	0.0711	0.0691
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.000219	0.000211	0.000205	0.000292	0.000423
	Calcium (Ca)-Total (mg/L)	96.7	44.7	44.1	43.3	41.9
	Chromium (Cr)-Total (mg/L)	0.00018	0.00010	<0.00010	0.00012	0.00013
	Cobalt (Co)-Total (mg/L)	0.00295	0.00093	0.00091	0.00168	0.00277
	Copper (Cu)-Total (mg/L)	0.00063	<0.00050	<0.00050	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	0.745	0.300	0.297	0.399	0.264
	Lead (Pb)-Total (mg/L)	0.000233	0.000137	0.000137	0.000219	0.000385
	Lithium (Li)-Total (mg/L)	0.00758	0.00627	0.00613	0.00645	0.00783
	Magnesium (Mg)-Total (mg/L)	21.4	10.7	10.7	10.5	10.3
	Manganese (Mn)-Total (mg/L)	3.23	0.0988	0.0976	0.161	0.185
	Molybdenum (Mo)-Total (mg/L)	0.000693	0.000651	0.000668	0.000692	0.000803

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1412237-6 Surface Water 14-JAN-14 14:38 NF2-A	L1412237-7 Surface Water 14-JAN-14 14:46 NF2-B	L1412237-8 Surface Water 14-JAN-14 14:54 NF2	L1412237-9 Surface Water 14-JAN-14 15:23 NF1	L1412237-10 Surface Water 14-JAN-14 15:38 R10
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
WATER						
Physical Tests	Conductivity (uS/cm)	427	262	295	353	263
	Hardness (as CaCO3) (mg/L)	206	130	148	177	130
	pH (pH)	7.64	8.01	7.84	7.93	8.02
	Total Suspended Solids (mg/L)	213	<1.0	<1.0	7.6	<1.0
	Total Dissolved Solids (mg/L)	271	150	172	207	148
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	124	127	124	171	125
	Ammonia, Total (as N) (mg/L)	0.0147	<0.0050	<0.0050	<0.0050	0.0052
	Chloride (Cl) (mg/L)	0.53	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.332	0.157	0.187	0.216	0.158
	Nitrate (as N) (mg/L)	0.306	0.250	0.250	0.260	0.234
	Nitrite (as N) (mg/L)	0.0034	<0.0010	0.0015	0.0020	0.0012
	Phosphorus (P)-Total (mg/L)	0.193	0.0048	0.0048	0.0210	0.0056
	Sulfate (SO4) (mg/L)	108	20.8	38.1	28.5	20.2
	Anion Sum (meq/L)	4.79	3.00	3.30	4.05	2.95
	Cation Sum (meq/L)	4.58	2.75	3.18	3.77	2.75
	Cation - Anion Balance (%)	-2.2	-4.2	-1.8	-3.6	-3.5
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	3.24	1.22	1.28	4.73	1.24
	Total Organic Carbon (mg/L)	5.21	1.17	1.20	4.77	1.13
Total Metals	Aluminum (Al)-Total (mg/L)	3.38	0.0155	0.0307	0.174	0.0125
	Antimony (Sb)-Total (mg/L)	0.00031	<0.00010	<0.00010	0.00013	<0.00010
	Arsenic (As)-Total (mg/L)	0.00868	0.00055	0.00057	0.00086	0.00058
	Barium (Ba)-Total (mg/L)	0.150	0.0690	0.0707	0.108	0.0714
	Beryllium (Be)-Total (mg/L)	0.00046	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Total (mg/L)	0.00738	0.000023	0.000927	0.000064	0.000017
	Calcium (Ca)-Total (mg/L)	44.7	38.1	40.7	54.6	40.3
	Chromium (Cr)-Total (mg/L)	0.00764	0.00012	0.00014	0.00083	0.00013
	Cobalt (Co)-Total (mg/L)	0.0412	0.00013	0.00610	0.00023	<0.00010
	Copper (Cu)-Total (mg/L)	0.0100	<0.00050	<0.00050	0.00130	<0.00050
	Iron (Fe)-Total (mg/L)	18.0	0.130	0.279	0.355	0.147
	Lead (Pb)-Total (mg/L)	0.0856	0.000344	0.000464	0.00155	0.000058
	Lithium (Li)-Total (mg/L)	0.0154	0.00703	0.00767	0.00953	0.00737
	Magnesium (Mg)-Total (mg/L)	24.1	8.61	11.6	12.1	8.56
	Manganese (Mn)-Total (mg/L)	2.09	0.0209	0.300	0.0868	0.0269
	Molybdenum (Mo)-Total (mg/L)	0.00113	0.000782	0.000807	0.00105	0.000815

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1412237-11 Surface Water 14-JAN-14 15:48 R9	L1412237-12 Surface Water 14-JAN-14 16:02 R8	L1412237-13 Surface Water 14-JAN-14 12:00 FIELD BLANK	L1412237-14 Surface Water 14-JAN-14 12:00 TRAVEL BLANK	
WATER						
Physical Tests	Conductivity (uS/cm)	261	230	<2.0	<2.0	
	Hardness (as CaCO3) (mg/L)	131	116	<0.50	<0.50	
	pH (pH)	8.07	8.09	5.62	5.54	
	Total Suspended Solids (mg/L)	<1.0	<1.0	<1.0	<1.0	
	Total Dissolved Solids (mg/L)	149	131	<1.0	<1.0	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	127	122	<2.0	<2.0	
	Ammonia, Total (as N) (mg/L)	0.0053	0.0057	<0.0050	<0.0050	
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	
	Fluoride (F) (mg/L)	0.158	0.157	<0.020	<0.020	
	Nitrate (as N) (mg/L)	0.237	0.146	<0.0050	<0.0050	
	Nitrite (as N) (mg/L)	0.0012	0.0010	<0.0010	<0.0010	
	Phosphorus (P)-Total (mg/L)	0.0053	0.0063	<0.0020	<0.0020	
	Sulfate (SO4) (mg/L)	19.7	9.45	<0.50	<0.50	
	Anion Sum (meq/L)	2.97	2.66	<0.10	<0.10	
	Cation Sum (meq/L)	2.76	2.47	<0.10	<0.10	
	Cation - Anion Balance (%)	-3.6	-3.8	0.0	0.0	
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.17	1.08	<0.50		
	Total Organic Carbon (mg/L)	1.15	1.15	<0.50	<0.50	
Total Metals	Aluminum (Al)-Total (mg/L)	0.0134	0.0128	<0.0030	<0.0030	
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	
	Arsenic (As)-Total (mg/L)	0.00056	0.00068	<0.00010	<0.00010	
	Barium (Ba)-Total (mg/L)	0.0670	0.0696	<0.000050	<0.000050	
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Boron (B)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	
	Cadmium (Cd)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	
	Calcium (Ca)-Total (mg/L)	37.8	35.8	<0.020	<0.020	
	Chromium (Cr)-Total (mg/L)	0.00016	0.00012	<0.00010	<0.00010	
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Iron (Fe)-Total (mg/L)	0.131	0.163	<0.010	<0.010	
	Lead (Pb)-Total (mg/L)	0.000082	<0.000050	<0.000050	<0.000050	
	Lithium (Li)-Total (mg/L)	0.00638	0.00696	<0.00050	<0.00050	
	Magnesium (Mg)-Total (mg/L)	7.99	6.97	<0.0050	<0.0050	
	Manganese (Mn)-Total (mg/L)	0.0235	0.0249	<0.000050	<0.000050	
	Molybdenum (Mo)-Total (mg/L)	0.000807	0.000817	<0.000050	<0.000050	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1412237-1 Surface Water 14-JAN-14 13:29 X14	L1412237-2 Surface Water 14-JAN-14 13:49 X10	L1412237-3 Surface Water 14-JAN-14 13:49 X10-R	L1412237-4 Surface Water 14-JAN-14 14:09 X3A	L1412237-5 Surface Water 14-JAN-14 14:22 X2
WATER						
Total Metals	Nickel (Ni)-Total (mg/L)	0.00701	0.00292	0.00297	0.00335	0.00464
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)	1.68	1.05	1.06	1.11	0.984
	Selenium (Se)-Total (mg/L)	0.00038	0.00039	0.00039	0.00040	0.00040
	Silicon (Si)-Total (mg/L)	6.20	5.71	5.73	5.66	6.02
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	5.82	2.72	2.74	2.90	2.89
	Strontium (Sr)-Total (mg/L)	0.319	0.202	0.209	0.209	0.191
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.00290	0.00234	0.00240	0.00243	0.00220
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	0.318	0.376	0.374	0.447	0.633
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0022	0.0022	0.0024	0.0032	0.0042
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00022	0.00013	0.00014	0.00024	0.00028
	Barium (Ba)-Dissolved (mg/L)	0.0672	0.0716	0.0724	0.0713	0.0700
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.000195	0.000191	0.000193	0.000276	0.000425
	Calcium (Ca)-Dissolved (mg/L)	95.9	45.4	43.9	43.4	40.5
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.00283	0.00090	0.00090	0.00164	0.00274
	Copper (Cu)-Dissolved (mg/L)	0.00031	0.00031	0.00032	0.00033	0.00030
	Iron (Fe)-Dissolved (mg/L)	0.396	0.038	0.039	0.185	0.075
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.00788	0.00599	0.00584	0.00647	0.00754
	Magnesium (Mg)-Dissolved (mg/L)	21.3	10.6	10.6	10.2	10.5
	Manganese (Mn)-Dissolved (mg/L)	3.11	0.0943	0.0948	0.153	0.182
	Molybdenum (Mo)-Dissolved (mg/L)	0.000673	0.000626	0.000618	0.000628	0.000763
	Nickel (Ni)-Dissolved (mg/L)	0.00676	0.00275	0.00280	0.00324	0.00455
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	1.63	1.05	1.05	1.09	0.982

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1412237-6 Surface Water 14-JAN-14 14:38 NF2-A	L1412237-7 Surface Water 14-JAN-14 14:46 NF2-B	L1412237-8 Surface Water 14-JAN-14 14:54 NF2	L1412237-9 Surface Water 14-JAN-14 15:23 NF1	L1412237-10 Surface Water 14-JAN-14 15:38 R10
Sample ID / Description / Sampled Date / Sampled Time / Client ID						
WATER						
Total Metals	Nickel (Ni)-Total (mg/L)	0.0559	<0.00050	0.00891	0.00113	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)	1.58	0.924	0.971	2.48	0.913
	Selenium (Se)-Total (mg/L)	0.00070	0.00044	0.00041	0.00057	0.00040
	Silicon (Si)-Total (mg/L)	11.0	6.12	5.98	8.58	6.11
	Silver (Ag)-Total (mg/L)	0.000173	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	3.45	2.75	2.91	3.93	2.87
	Strontium (Sr)-Total (mg/L)	0.212	0.173	0.178	0.242	0.174
	Thallium (Tl)-Total (mg/L)	0.000087	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Total (mg/L)	0.00041	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)	0.083	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)	0.00287	0.00217	0.00222	0.00284	0.00224
	Vanadium (V)-Total (mg/L)	0.0084	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	7.98	0.0226	1.34	0.0262	0.0110
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)	0.0137	0.0028	0.0065	0.0032	0.0030
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00019	0.00036	0.00036	0.00058	0.00041
	Barium (Ba)-Dissolved (mg/L)	0.0706	0.0692	0.0687	0.109	0.0708
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Cadmium (Cd)-Dissolved (mg/L)	0.00474	0.000025	0.00106	0.000060	0.000014
	Calcium (Ca)-Dissolved (mg/L)	43.3	38.0	39.1	51.6	38.5
	Chromium (Cr)-Dissolved (mg/L)	0.00066	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.0307	0.00010	0.00707	0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00056	0.00029	0.00030	0.00074	0.00027
	Iron (Fe)-Dissolved (mg/L)	0.437	0.029	0.160	0.026	0.036
	Lead (Pb)-Dissolved (mg/L)	0.000223	<0.000050	0.000072	0.000178	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.0112	0.00669	0.00788	0.00895	0.00677
	Magnesium (Mg)-Dissolved (mg/L)	23.6	8.59	12.2	11.7	8.24
	Manganese (Mn)-Dissolved (mg/L)	1.46	0.0182	0.350	0.0718	0.0248
	Molybdenum (Mo)-Dissolved (mg/L)	0.000823	0.000762	0.000759	0.000973	0.000784
	Nickel (Ni)-Dissolved (mg/L)	0.0449	<0.00050	0.0104	0.00060	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	1.17	0.932	0.972	2.34	0.901

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1412237-11 Surface Water 14-JAN-14 15:48 R9	L1412237-12 Surface Water 14-JAN-14 16:02 R8	L1412237-13 Surface Water 14-JAN-14 12:00 FIELD BLANK	L1412237-14 Surface Water 14-JAN-14 12:00 TRAVEL BLANK	
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
WATER						
Total Metals	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	
	Potassium (K)-Total (mg/L)	0.912	0.838	<0.050	<0.050	
	Selenium (Se)-Total (mg/L)	0.00040	0.00042	<0.00010	<0.00010	
	Silicon (Si)-Total (mg/L)	5.71	6.06	<0.050	<0.050	
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	
	Sodium (Na)-Total (mg/L)	2.71	2.77	<0.050	<0.050	
	Strontium (Sr)-Total (mg/L)	0.167	0.159	<0.00020	<0.00020	
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	<0.010	<0.010	
	Uranium (U)-Total (mg/L)	0.00211	0.00198	<0.000010	<0.000010	
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	
	Zinc (Zn)-Total (mg/L)	<0.0030	<0.0030	<0.0030	<0.0030	
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	<0.00080	<0.00080	
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	FIELD		
	Aluminum (Al)-Dissolved (mg/L)	0.0028	0.0026	<0.0010		
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010		
	Arsenic (As)-Dissolved (mg/L)	0.00041	0.00047	<0.00010		
	Barium (Ba)-Dissolved (mg/L)	0.0705	0.0706	<0.000050		
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010		
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050		
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	<0.010		
	Cadmium (Cd)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010		
	Calcium (Ca)-Dissolved (mg/L)	39.1	35.5	<0.020		
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010		
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010		
	Copper (Cu)-Dissolved (mg/L)	0.00025	0.00027	<0.00020		
	Iron (Fe)-Dissolved (mg/L)	0.034	0.052	<0.010		
	Lead (Pb)-Dissolved (mg/L)	<0.000050	<0.000050	<0.000050		
	Lithium (Li)-Dissolved (mg/L)	0.00663	0.00630	<0.00050		
	Magnesium (Mg)-Dissolved (mg/L)	8.16	6.75	<0.0050		
	Manganese (Mn)-Dissolved (mg/L)	0.0223	0.0227	<0.000050		
	Molybdenum (Mo)-Dissolved (mg/L)	0.000792	0.000779	<0.000050		
	Nickel (Ni)-Dissolved (mg/L)	<0.00050	<0.00050	<0.00050		
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30		
	Potassium (K)-Dissolved (mg/L)	0.890	0.815	<0.050		

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1412237-1	L1412237-2	L1412237-3	L1412237-4	L1412237-5
	Description	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
	Sampled Date	14-JAN-14	14-JAN-14	14-JAN-14	14-JAN-14	14-JAN-14
	Sampled Time	13:29	13:49	13:49	14:09	14:22
	Client ID	X14	X10	X10-R	X3A	X2
Grouping	**Analyte**					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00039	0.00037	0.00040	0.00042	0.00040
	Silicon (Si)-Dissolved (mg/L)	5.98	5.57	5.62	5.77	5.90
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	5.62	2.70	2.75	2.79	2.89
	Strontium (Sr)-Dissolved (mg/L)	0.317	0.204	0.192	0.189	0.179
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	0.000015	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00281	0.00234	0.00226	0.00229	0.00214
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.311	0.377	0.378	0.457	0.652
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080	<0.00080	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1412237-6 Surface Water 14-JAN-14 14:38 NF2-A	L1412237-7 Surface Water 14-JAN-14 14:46 NF2-B	L1412237-8 Surface Water 14-JAN-14 14:54 NF2	L1412237-9 Surface Water 14-JAN-14 15:23 NF1	L1412237-10 Surface Water 14-JAN-14 15:38 R10
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00045	0.00044	0.00043	0.00060	0.00046
	Silicon (Si)-Dissolved (mg/L)	6.00	6.05	6.10	8.35	5.97
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	3.49	2.82	2.87	3.86	2.75
	Strontium (Sr)-Dissolved (mg/L)	0.199	0.170	0.175	0.225	0.170
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	0.00047	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010	<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.00227	0.00215	0.00220	0.00266	0.00213
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	7.03	0.0209	1.70 DTC	0.0231	0.0107
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080	<0.00080	<0.00080

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1412237-11	L1412237-12	L1412237-13	L1412237-14	
	Description	Surface Water	Surface Water	Surface Water	Surface Water	
	Sampled Date	14-JAN-14	14-JAN-14	14-JAN-14	14-JAN-14	
	Sampled Time	15:48	16:02	12:00	12:00	
	Client ID	R9	R8	FIELD BLANK	TRAVEL BLANK	
Grouping	**Analyte**					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00043	0.00044	<0.00010		
	Silicon (Si)-Dissolved (mg/L)	6.04	6.10	<0.050		
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010		
	Sodium (Na)-Dissolved (mg/L)	2.70	2.66	<0.050		
	Strontium (Sr)-Dissolved (mg/L)	0.166	0.149	<0.00020		
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010		
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010	<0.010		
	Uranium (U)-Dissolved (mg/L)	0.00215	0.00190	<0.000010		
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010		
	Zinc (Zn)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010		
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080	<0.00080		

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

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Fluoride (F)	DLM	L1412237-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Duplicate	Nitrite (as N)	DLM	L1412237-1, -10, -11, -12, -13, -14, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1412237-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects.
DTC	Dissolved concentration exceeds total. Results were confirmed by re-analysis.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	EPA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-F-IC-VA	Water	Fluoride by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-NO2-IC-VA	Water	Nitrite in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrite is detected by UV absorbance.

ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

CARBONS-DOC-VA	Water	Dissolved organic carbon by combustion	APHA 5310 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.

CARBONS-TOC-VA	Water	Total organic carbon by combustion	APHA 5310 TOTAL ORGANIC CARBON (TOC)

This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".

EC-PCT-VA	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.

HARDNESS-CALC-VA	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.

Reference Information

IONBALANCE-VA Water Ion Balance Calculation APHA 1030E

Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.

Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance is calculated as:

Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]

MET-D-CCMS-VA Water Dissolved Metals in Water by CRC ICPMS APHA 3030 B&E / EPA SW-846 6020A

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 hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

MET-T-CCMS-VA Water Total Metals in Water by CRC ICPMS APHA 3030 B&E / EPA SW-846 6020A

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 hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

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.

P-T-COL-VA Water Total P in Water by Colour APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous 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.

TDS-CALC-VA Water TDS (Calculated) APHA 1030E (20TH EDITION)

This analysis is carried out using procedures adapted from APHA 1030E "Checking Correctness of Analyses".

TSS-LOW-VA Water Total Suspended Solids by Grav. (1 mg/L) APHA 2540 Gravimetric

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TSS is determined by drying the filter at 104 degrees celsius.

ZR-D-MS-VA Water Dissolved Zr in Water by ICPMS EPA SW-846 3005A/6020A

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 - mass spectrometry (EPA Method 6020A).

ZR-T-MS-VA Water Total Zr in Water by ICPMS EPA SW-846 3005A/6020A

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 - mass spectrometry (EPA Method 6020A).

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

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

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

Reference Information

Chain of Custody Numbers:

1 2 3

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.

ALS Environmental

Chain of Custody / Analytical Request Form

Canada Toll Free: 1 800 668 9878

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COC # _____

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Report To		Report Format / Distribution	Service Requested (Rush for routine analysis subject to availability)
Company:	EDI	☑ Standard ☐ Other	○ Regular (Standard Turnaround Times - Business Days)
Contact:	Meighan Kearns	☑ PDF ☑ Excel ☐ Digital ☐ Fax	◉ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	2195 - 2nd Avenue	Email 1: mkearns@edynamics.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
	Whitehorse, YT Y1A 3T8	Email 2: adrienne.turcotte@gov.yk.ca	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	867-393-4882 Fax:	Email 3:	
Invoice To	Same as Report ? ☐ Yes ☐ No	Client / Project Information	
Hardcopy of Invoice with Report?	☐ Yes ☐ No	Job #: 13-Y-0452	
Company:		PO / AFE:	
Contact:		LSD:	
Address:			
Phone:	Fax:	Quote #: Q38556	
Lab Work Order # (lab use only)	L1412237	ALS Contact:	Sampler:

Analysis Request

Please indicate below Filtered, Preserved or both (F, P, F/P)

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALK-COL-VA,P-T-COL-VA	ANIONS-ALL-IC-WR	CARBONS-DOC-VA	CARBONS-TOC-VA,NH3-F-VA	EC-MAN-WR,PH-MAN-WR	MET-D-CCMS-VA,ZR-D-MS-VA	MET-T-CCMS-VA,ZR-T-MS-VA	IONBALANCE-VA	TDS-CALC-VA	TSS-LOW-WR	HARDNESS-CALC-VA		Number of Containers
1	R9	14 JAN 14	1548	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
2	R8	↓	1602	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
3	FIELD BLANK		1206	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
4	TRAVEL BLANK		1200	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
				Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
				Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
				Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
				Surface Water	X	X	X	X	X	X	X	X	X	X	X		5

L1412237-COFC

Special Instructions / Regulations with ... ife/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

~~Use Faro Equis Format to report~~

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

By the use of this form the user acknowledges and agrees with the Terms and Conditions as provided on a separate Excel tab.

Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
	15 JAN 14	1429		15-JAN-14	4:34	1.7, 1.5, 3.4 °C				

Doreen Jan 16 1255 8°C

GENF 18.01 Front

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COC # _____

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Report To		Report Format / Distribution	Service Requested (Rush for routine analysis subject to availability)
Company:	EDI	☑ Standard ☐ Other	○ Regular (Standard Turnaround Times - Business Days)
Contact:	Meighan Kearns	☑ PDF ☑ Excel ☐ Digital ☐ Fax	◉ Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	2195 - 2nd Avenue	Email 1: mkearns@edynamics.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
	Whitehorse, YT Y1A 3T8	Email 2: adrienne.turcotte@gov.yk.ca	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	867-393-4882 Fax:	Email 3:	
Invoice To	Same as Report ? ☐ Yes ☐ No	Client / Project Information	Analysis Request
Hardcopy of Invoice with Report?	☐ Yes ☐ No	Job #: 13-Y-0452	Please indicate below Filtered, Preserved or both (F, P, F/P)
Company:		PO / AFE:	
Contact:		LSD:	
Address:			
Phone:	Fax:	Quote #: Q38556	
Lab Work Order # (lab use only)	L1412237	ALS Contact:	Sampler:

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALK-COL-VA,P-T-COL-VA	ANIONS-ALL-IC-WR	CARBONS-DOC-VA	CARBONS-TOC-VA,NH3-F-VA	EC-MAN-WR,PH-MAN-WR	MET-D-CCMS-VA,ZR-D-MS-VA	MET-T-CCMS-VA,ZR-T-MS-VA	IONBALANCE-VA	TDS-CALC-VA	TSS-LOW-WR	HARDNESS-CALC-VA		Number of Containers
1	X14	14-JAN-14	1329	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
2	X10		1349	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
3	X10-C		1349	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
4	X3A		1409	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
5	X2		1422	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
				~~Surface Water~~	X	X	X	X	X	X	X	X	X	X	X		5
				~~Surface Water~~	X	X	X	X	X	X	X	X	X	X	X		5
				~~Surface Water~~	X	X	X	X	X	X	X	X	X	X	X		5

L1412237-COFC

RUSH

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commerc

Use Faro Equis Format to report

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.
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Also provided on another Excel tab are the ALS location addresses, phone numbers and sample container / preservation / holding time table for common analyses.

SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by:	Date (dd-mmm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature:	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
	15 JAN 14	1429		15-JAN-14	4:34	1.7, 1.5, 3.6 °C				

Doreen Jan 16 1255 8°C

GENF 18.01 Front

![ALS Environmental]

Chain of Custody / Analytical Request Form
Canada Toll Free: 1 800 668 9878
www.alsglobal.com

COC # ______

Report To		Report Format / Distribution		Service Requested (Rush for routine analysis subject to availability)
Company:	EDI	☑ Standard ☐ Other		○ Regular (Standard Turnaround Times - Business Days)
Contact:	Meighan Kearns	☑ PDF ☑ Excel ☐ Digital ☐ Fax		● Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT
Address:	2195 - 2nd Avenue	Email 1:	mkearns@edynamics.com	○ Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT
	Whitehorse, YT Y1A 3T8	Email 2:	adrienne.turcotte@gov.yk.ca	○ Same Day or Weekend Emergency - Contact ALS to Confirm TAT
Phone:	867-393-4882 Fax:	Email 3:		
Invoice To	Same as Report ? ☐ Yes ☐ No	Client / Project Information		
Hardcopy of Invoice with Report?	☐ Yes ☐ No	Job #:	13-Y-0452	
Company:		PO / AFE:		
Contact:		LSD:		
Address:				
Phone:	Fax:	Quote #:	Q38556	
Lab Work Order # (lab use only)	L1412237	ALS Contact:	Sampler:	

Analysis Request — Please indicate below Filtered, Preserved or both (F, P, F/P)

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALK-COL-VA,P-T-COL-VA	ANIONS-ALL-IC-WR	CARBONS-DOC-VA	CARBONS-TOC-VA,NH3-F-V	EC-MAN-WR,PH-MAN-WR	MET-D-CCMS-VA,ZR-D-MS-	MET-T-CCMS-VA,ZR-T-MS-	IONBALANCE-VA	TDS-CALC-VA	TSS-LOW-WR	HARDNESS-CALC-VA		Number of Containers
6	NF2-A	14-JAN-14	14:58	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
7	NF2-B	↓	1446	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
8	NF2		1454	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
9	NF1		1523	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
10	R10	↓	1538	Surface Water	X	X	X	X	X	X	X	X	X	X	X		5
				~~Surface Water~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		5
				~~Surface Water~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		5
				~~Surface Water~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		5
	L1412237-COFC																

Special Instructions / Regulations with water or land use (CCME-Freshwater Aquatic Life/BC CSR - Commercial/AB Tier 1 - Natural, etc) / Hazardous Details

Use Faro Equis Format to report

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SHIPMENT RELEASE (client use)			SHIPMENT RECEPTION (lab use only)				SHIPMENT VERIFICATION (lab use only)			
Released by: [signature]	Date (dd-mmm-yy) 15JAN14	Time (hh-mm) 1429	Received by: [signature]	Date: 15-JAN-14	Time: 4:34	Temperature: 1.7,1.5,3.4 °C	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF

Doran Jan16 1255 8°c