



ENVIRONMENTAL DYNAMICS INC.  
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Date Received: 14-MAY-14  
Report Date: 27-MAY-14 16:09 (MT)  
Version: FINAL

Client Phone: 867-393-4882

## Certificate of Analysis

**Lab Work Order #:** L1455078  
**Project P.O. #:** NOT SUBMITTED  
**Job Reference:** 14-Y-270  
**C of C Numbers:** 1, 2  
**Legal Site Desc:**

Can Dang  
Senior Account Manager

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1455078-1 Grab 13-MAY-14 12:10 R10	L1455078-2 Grab 13-MAY-14 11:55 NF1	L1455078-3 Grab 14-MAY-14 10:15 TRAVEL BLANK	L1455078-4 Grab 13-MAY-14 12:00 FIELD BLANK	L1455078-5 Grab 13-MAY-14 09:15 X14
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	61.4	61.2	<2.0	383	152
	Hardness (as CaCO3) (mg/L)	29.7	29.1	<0.50	180	70.9
	pH (pH)	7.26	7.11	5.71	8.10	7.55
	Total Suspended Solids (mg/L)	26.2	10.6	<1.0	<1.0	10.0
	Total Dissolved Solids (mg/L)	43.9	44.9	<1.0	226	96.3
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	27.6	26.8	<2.0	153 <sup>RRV</sup>	44.6
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	0.0320 <sup>RRV</sup>	<0.0050	0.0160
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	3.00	<0.50
	Fluoride (F) (mg/L)	0.052	0.050	<0.020	0.168	0.059
	Nitrate (as N) (mg/L)	0.0152	0.0187	<0.0050	0.0462	0.0276
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010 <sup>RRV</sup>	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0421	0.0341	<0.0020	0.0194 <sup>RRV</sup>	0.0289
	Sulfate (SO4) (mg/L)	3.11	3.16	<0.50	61.9	30.4
	Anion Sum (meq/L)	0.62	0.60	<0.10	4.45	1.53
	Cation Sum (meq/L)	0.68	0.67	<0.10	4.10	1.54
	Cation - Anion Balance (%)	4.4	4.8	0.0	-4.1	0.5
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	9.91	11.9		<0.50	10.8
	Total Organic Carbon (mg/L)	11.2	12.9	<0.50	<0.50	10.4
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	0.659	0.408	<0.0030	<0.0030	0.282
	Antimony (Sb)-Total (mg/L)	0.00028	0.00014	<0.00010	0.00014	0.00012
	Arsenic (As)-Total (mg/L)	0.00194	0.00103	<0.00010	0.00411	0.00082
	Barium (Ba)-Total (mg/L)	0.0380	0.0320	<0.000050	0.0337	0.0310
	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	0.015	<0.010
	Cadmium (Cd)-Total (mg/L)	0.000052	0.000060	<0.000010	<0.000010	0.000078
	Calcium (Ca)-Total (mg/L)	8.59	8.18	<0.020	31.7	19.3
	Chromium (Cr)-Total (mg/L)	0.00123	0.00075	<0.00010	0.00014	0.00065
	Cobalt (Co)-Total (mg/L)	0.00046	0.00031	<0.00010	<0.00010	0.00104
	Copper (Cu)-Total (mg/L)	0.00516	0.00268	<0.00050	0.0238	0.00235
	Iron (Fe)-Total (mg/L)	1.28	0.770	<0.010	<0.010	0.724
	Lead (Pb)-Total (mg/L)	0.0734	0.00919	<0.000050	<0.000050	0.00594
	Lithium (Li)-Total (mg/L)	0.00206	0.00137	<0.00050	0.00059	0.00137
	Magnesium (Mg)-Total (mg/L)	1.96	1.82	<0.0050	23.8	4.93
	Manganese (Mn)-Total (mg/L)	0.0382	0.0344	<0.000050	0.000116	0.524
	Molybdenum (Mo)-Total (mg/L)	0.000256	0.000239	<0.000050	0.00442	0.000252

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

## ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1455078-6 Grab 13-MAY-14 09:35 X10	L1455078-7 Grab 13-MAY-14 09:40 X10-R	L1455078-8 Grab 13-MAY-14 10:05 X3A	L1455078-9 Grab 13-MAY-14 10:25 X2	L1455078-10 Grab 13-MAY-14 10:45 NF2-A
Grouping	Analyte					
<b>WATER</b>						
<b>Physical Tests</b>	Conductivity (uS/cm)	90.6	89.3	75.6	66.5	62.8
	Hardness (as CaCO3) (mg/L)	43.3	42.3	35.4	30.7	29.0
	pH (pH)	7.48	7.43	7.24	7.17	7.19
	Total Suspended Solids (mg/L)	9.6	10.2	13.2	14.8	11.0
	Total Dissolved Solids (mg/L)	59.3	57.3	51.7	47.1	45.0
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	39.0	38.9	32.3	28.1	28.0
	Ammonia, Total (as N) (mg/L)	0.0058	<0.0050	<0.0050	<0.0050	0.0057
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.062	0.058	0.062	0.054	0.051
	Nitrate (as N) (mg/L)	0.0267	0.0257	0.0266	0.0213	0.0204
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0234	0.0246	0.0272	0.0320	0.0285
	Sulfate (SO4) (mg/L)	6.07	6.06	5.42	4.71	3.28
	Anion Sum (meq/L)	0.91	0.91	0.76	0.66	0.63
	Cation Sum (meq/L)	0.95	0.93	0.79	0.70	0.66
	Cation - Anion Balance (%)	2.0	1.0	1.9	2.7	2.5
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	11.7	10.4	10.4	11.8	11.8
	Total Organic Carbon (mg/L)	12.0	10.6	11.8	12.1	12.2
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	0.322	0.291	0.378	0.430	0.392
	Antimony (Sb)-Total (mg/L)	0.00012	0.00011	0.00012	0.00012	0.00012
	Arsenic (As)-Total (mg/L)	0.00089	0.00082	0.00100	0.00107	0.00101
	Barium (Ba)-Total (mg/L)	0.0313	0.0309	0.0318	0.0311	0.0301
	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)	0.000083	0.000076	0.000095	0.000112	0.000064
	Calcium (Ca)-Total (mg/L)	11.8	11.7	10.0	9.36	8.63
	Chromium (Cr)-Total (mg/L)	0.00072	0.00063	0.00076	0.00083	0.00075
	Cobalt (Co)-Total (mg/L)	0.00052	0.00047	0.00062	0.00073	0.00039
	Copper (Cu)-Total (mg/L)	0.00447	0.00248	0.00258	0.00289	0.00260
	Iron (Fe)-Total (mg/L)	0.736	0.694	0.828	0.880	0.791
	Lead (Pb)-Total (mg/L)	0.00663	0.00630	0.00832	0.00956	0.00843
	Lithium (Li)-Total (mg/L)	0.00108	0.00084	0.00128	0.00159	0.00116
	Magnesium (Mg)-Total (mg/L)	3.20	3.19	2.33	2.10	1.87
	Manganese (Mn)-Total (mg/L)	0.0657	0.0464	0.0584	0.0618	0.0380
	Molybdenum (Mo)-Total (mg/L)	0.000245	0.000237	0.000228	0.000238	0.000225

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# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1455078-11 Grab 13-MAY-14 11:00 NF2-B	L1455078-12 Grab 13-MAY-14 11:15 NF2		
Grouping	Analyte				
<b>WATER</b>					
<b>Physical Tests</b>	Conductivity (uS/cm)	63.8	72.7		
	Hardness (as CaCO3) (mg/L)	29.8	32.8		
	pH (pH)	7.21	7.19		
	Total Suspended Solids (mg/L)	15.2	12.8		
	Total Dissolved Solids (mg/L)	45.0	50.2		
<b>Anions and Nutrients</b>	Alkalinity, Total (as CaCO3) (mg/L)	27.7	27.9		
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050		
	Chloride (Cl) (mg/L)	<0.50	<0.50		
	Fluoride (F) (mg/L)	0.062	0.059		
	Nitrate (as N) (mg/L)	0.0191	0.0218		
	Nitrite (as N) (mg/L)	<0.0010	<0.0010		
	Phosphorus (P)-Total (mg/L)	0.0322	0.0317		
	Sulfate (SO4) (mg/L)	3.18	6.99		
	Anion Sum (meq/L)	0.63	0.71		
	Cation Sum (meq/L)	0.68	0.76		
	Cation - Anion Balance (%)	4.2	3.3		
<b>Organic / Inorganic Carbon</b>	Dissolved Organic Carbon (mg/L)	12.0	11.9		
	Total Organic Carbon (mg/L)	12.1	12.1		
<b>Total Metals</b>	Aluminum (Al)-Total (mg/L)	0.435	0.425		
	Antimony (Sb)-Total (mg/L)	0.00012	0.00013		
	Arsenic (As)-Total (mg/L)	0.00103	0.00103		
	Barium (Ba)-Total (mg/L)	0.0315	0.0307		
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010		
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050		
	Boron (B)-Total (mg/L)	<0.010	<0.010		
	Cadmium (Cd)-Total (mg/L)	0.000046	0.000234		
	Calcium (Ca)-Total (mg/L)	8.88	9.17		
	Chromium (Cr)-Total (mg/L)	0.00086	0.00083		
	Cobalt (Co)-Total (mg/L)	0.00035	0.00139		
	Copper (Cu)-Total (mg/L)	0.00297	0.00263		
	Iron (Fe)-Total (mg/L)	0.841	0.833		
	Lead (Pb)-Total (mg/L)	0.00872	0.00854		
	Lithium (Li)-Total (mg/L)	0.00159	0.00158		
	Magnesium (Mg)-Total (mg/L)	1.86	2.40		
	Manganese (Mn)-Total (mg/L)	0.0393	0.0927		
	Molybdenum (Mo)-Total (mg/L)	0.000231	0.000233		

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1455078-1	L1455078-2	L1455078-3	L1455078-4	L1455078-5
		Description	Grab	Grab	Grab	Grab	Grab
		Sampled Date	13-MAY-14	13-MAY-14	14-MAY-14	13-MAY-14	13-MAY-14
		Sampled Time	12:10	11:55	10:15	12:00	09:15
		Client ID	R10	NF1	TRAVEL BLANK	FIELD BLANK	X14
Grouping	Analyte						
<b>WATER</b>							
<b>Total Metals</b>	Nickel (Ni)-Total (mg/L)		0.00190	0.00155	<0.00050	<0.00050	0.00246
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		1.16	1.10	<0.050	2.13	1.15
	Selenium (Se)-Total (mg/L)		0.00013	0.00012	<0.00010	0.00026	0.00016
	Silicon (Si)-Total (mg/L)		3.54	2.94	<0.050	6.32	2.88
	Silver (Ag)-Total (mg/L)		0.000187	0.000037	<0.000010	0.00975	0.000021
	Sodium (Na)-Total (mg/L)		0.848	0.796	<0.050	10.4	1.33
	Strontium (Sr)-Total (mg/L)		0.0440	0.0407	<0.00020	0.272	0.0745
	Thallium (Tl)-Total (mg/L)		0.000063	0.000025	<0.000010	<0.000010	0.000014
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.024	0.012	<0.010	<0.010	<0.010
	Uranium (U)-Total (mg/L)		0.000436	0.000377	<0.000010	0.00319	0.000610
	Vanadium (V)-Total (mg/L)		0.0018	0.0011	<0.0010	0.0015	<0.0010
	Zinc (Zn)-Total (mg/L)		0.0120	0.0157	<0.0030	0.0062	0.0608
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location		FIELD	FIELD		FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0866	0.0852		0.0023	0.0599
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010		0.00014	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00055	0.00060		0.00420	0.00046
	Barium (Ba)-Dissolved (mg/L)		0.0259	0.0262		0.0339	0.0280
	Beryllium (Be)-Dissolved (mg/L)		<0.00010	<0.00010		<0.00010	<0.00010
	Bismuth (Bi)-Dissolved (mg/L)		<0.00050	<0.00050		<0.00050	<0.00050
	Boron (B)-Dissolved (mg/L)		<0.010	<0.010		0.015	<0.010
	Cadmium (Cd)-Dissolved (mg/L)		0.000028	0.000036		<0.000010	0.000056
	Calcium (Ca)-Dissolved (mg/L)		8.94	8.71		32.0	20.3
	Chromium (Cr)-Dissolved (mg/L)		0.00014	0.00014		0.00012	0.00012
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	0.00011		<0.00010	0.00077
	Copper (Cu)-Dissolved (mg/L)		0.00182	0.00173		0.0237	0.00168
	Iron (Fe)-Dissolved (mg/L)		0.182	0.213		<0.010	0.210
	Lead (Pb)-Dissolved (mg/L)		0.00585	0.00253		0.000054	0.00121
	Lithium (Li)-Dissolved (mg/L)		0.00102	0.00113		0.00063	0.00113
	Magnesium (Mg)-Dissolved (mg/L)		1.79	1.78		24.3	4.89
	Manganese (Mn)-Dissolved (mg/L)		0.0125	0.0142		0.000134	0.527
	Molybdenum (Mo)-Dissolved (mg/L)		0.000191	0.000194		0.00449	0.000231
	Nickel (Ni)-Dissolved (mg/L)		0.00082	0.00085		<0.00050	0.00185
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30		<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		1.06	1.08		2.15	1.14

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1455078-6	L1455078-7	L1455078-8	L1455078-9	L1455078-10
		Description	Grab	Grab	Grab	Grab	Grab
		Sampled Date	13-MAY-14	13-MAY-14	13-MAY-14	13-MAY-14	13-MAY-14
		Sampled Time	09:35	09:40	10:05	10:25	10:45
		Client ID	X10	X10-R	X3A	X2	NF2-A
Grouping	Analyte						
<b>WATER</b>							
<b>Total Metals</b>	Nickel (Ni)-Total (mg/L)		0.00206	0.00183	0.00195	0.00229	0.00165
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		1.09	1.07	1.08	1.09	1.08
	Selenium (Se)-Total (mg/L)		0.00014	0.00013	0.00014	0.00013	0.00012
	Silicon (Si)-Total (mg/L)		2.84	2.78	3.13	3.07	2.95
	Silver (Ag)-Total (mg/L)		0.000025	0.000021	0.000026	0.000029	0.000028
	Sodium (Na)-Total (mg/L)		0.857	0.864	0.874	0.845	0.832
	Strontium (Sr)-Total (mg/L)		0.0560	0.0538	0.0487	0.0435	0.0406
	Thallium (Tl)-Total (mg/L)		0.000016	0.000014	0.000016	0.000018	0.000016
	Tin (Sn)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Titanium (Ti)-Total (mg/L)		0.011	<0.010	0.012	0.015	0.011
	Uranium (U)-Total (mg/L)		0.000514	0.000508	0.000465	0.000391	0.000386
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	0.0011	0.0010
	Zinc (Zn)-Total (mg/L)		0.0685	0.0641	0.0811	0.100	0.0323
	Zirconium (Zr)-Total (mg/L)		<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location		FIELD	FIELD	FIELD	FIELD	FIELD
	Aluminum (Al)-Dissolved (mg/L)		0.0546	0.0569	0.0679	0.0816	0.0821
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00047	0.00046	0.00051	0.00055	0.00054
	Barium (Ba)-Dissolved (mg/L)		0.0268	0.0268	0.0264	0.0240	0.0238
	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)		0.000052	0.000056	0.000064	0.000089	0.000035
	Calcium (Ca)-Dissolved (mg/L)		12.2	11.8	10.3	8.95	8.67
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	0.00011	0.00012	0.00012	0.00011
	Cobalt (Co)-Dissolved (mg/L)		0.00022	0.00022	0.00030	0.00040	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00172	0.00166	0.00168	0.00186	0.00180
	Iron (Fe)-Dissolved (mg/L)		0.180	0.178	0.197	0.204	0.185
	Lead (Pb)-Dissolved (mg/L)		0.00128	0.00127	0.00178	0.00267	0.00226
	Lithium (Li)-Dissolved (mg/L)		0.00088	0.00089	0.00099	0.00099	0.00099
	Magnesium (Mg)-Dissolved (mg/L)		3.09	3.13	2.33	2.02	1.80
	Manganese (Mn)-Dissolved (mg/L)		0.0221	0.0216	0.0269	0.0283	0.00824
	Molybdenum (Mo)-Dissolved (mg/L)		0.000223	0.000214	0.000198	0.000196	0.000192
	Nickel (Ni)-Dissolved (mg/L)		0.00131	0.00123	0.00124	0.00140	0.00095
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		1.06	1.05	1.06	1.05	1.05

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1455078-11	L1455078-12			
Description	Grab	Grab			
Sampled Date	13-MAY-14	13-MAY-14			
Sampled Time	11:00	11:15			
Client ID	NF2-B	NF2			
Grouping	Analyte				
<b>WATER</b>					
<b>Total Metals</b>	Nickel (Ni)-Total (mg/L)	0.00172	0.00317		
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30		
	Potassium (K)-Total (mg/L)	1.10	1.11		
	Selenium (Se)-Total (mg/L)	0.00012	0.00012		
	Silicon (Si)-Total (mg/L)	3.06	3.10		
	Silver (Ag)-Total (mg/L)	0.000026	0.000026		
	Sodium (Na)-Total (mg/L)	0.818	0.884		
	Strontium (Sr)-Total (mg/L)	0.0422	0.0431		
	Thallium (Tl)-Total (mg/L)	0.000016	0.000016		
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010		
	Titanium (Ti)-Total (mg/L)	0.014	0.013		
	Uranium (U)-Total (mg/L)	0.000380	0.000393		
	Vanadium (V)-Total (mg/L)	0.0011	0.0011		
	Zinc (Zn)-Total (mg/L)	0.0121	0.259		
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080		
<b>Dissolved Metals</b>	Dissolved Metals Filtration Location	FIELD	FIELD		
	Aluminum (Al)-Dissolved (mg/L)	0.0822	0.0844		
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010		
	Arsenic (As)-Dissolved (mg/L)	0.00055	0.00054		
	Barium (Ba)-Dissolved (mg/L)	0.0241	0.0246		
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010		
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050		
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010		
	Cadmium (Cd)-Dissolved (mg/L)	0.000025	0.000218		
	Calcium (Ca)-Dissolved (mg/L)	8.98	9.22		
	Chromium (Cr)-Dissolved (mg/L)	0.00011	0.00012		
	Cobalt (Co)-Dissolved (mg/L)	<0.00010	0.00122		
	Copper (Cu)-Dissolved (mg/L)	0.00188	0.00184		
	Iron (Fe)-Dissolved (mg/L)	0.187	0.224		
	Lead (Pb)-Dissolved (mg/L)	0.00229	0.00237		
	Lithium (Li)-Dissolved (mg/L)	0.00105	0.00124		
	Magnesium (Mg)-Dissolved (mg/L)	1.80	2.38		
	Manganese (Mn)-Dissolved (mg/L)	0.00657	0.0706		
	Molybdenum (Mo)-Dissolved (mg/L)	0.000195	0.000201		
	Nickel (Ni)-Dissolved (mg/L)	0.00091	0.00254		
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30		
	Potassium (K)-Dissolved (mg/L)	1.07	1.07		

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

# ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1455078-1	L1455078-2	L1455078-3	L1455078-4	L1455078-5
Description	Grab	Grab	Grab	Grab	Grab	Grab
Sampled Date	13-MAY-14	13-MAY-14	13-MAY-14	14-MAY-14	13-MAY-14	13-MAY-14
Sampled Time	12:10	11:55	11:55	10:15	12:00	09:15
Client ID	R10	NF1	NF1	TRAVEL BLANK	FIELD BLANK	X14
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Selenium (Se)-Dissolved (mg/L)	0.00010	<0.00010		0.00026	0.00013
	Silicon (Si)-Dissolved (mg/L)	2.69	2.51		6.30	2.63
	Silver (Ag)-Dissolved (mg/L)	0.000022	<0.000010		0.00978	<0.000010
	Sodium (Na)-Dissolved (mg/L)	0.843	0.802		10.3	1.34
	Strontium (Sr)-Dissolved (mg/L)	0.0420	0.0399		0.275	0.0742
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	0.000010		<0.000010	<0.000010
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010		<0.00010	<0.00010
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010		<0.010	<0.010
	Uranium (U)-Dissolved (mg/L)	0.000355	0.000340		0.00330	0.000595
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010		0.0015	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0068	0.0124		0.0061	0.0556
	Zirconium (Zr)-Dissolved (mg/L)	<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 Description Sampled Date Sampled Time Client ID	L1455078-6 Grab 13-MAY-14 09:35 X10	L1455078-7 Grab 13-MAY-14 09:40 X10-R	L1455078-8 Grab 13-MAY-14 10:05 X3A	L1455078-9 Grab 13-MAY-14 10:25 X2	L1455078-10 Grab 13-MAY-14 10:45 NF2-A
Grouping	Analyte					
<b>WATER</b>						
<b>Dissolved Metals</b>	Selenium (Se)-Dissolved (mg/L)	0.00011	0.00012	0.00010	0.00011	<0.00010
	Silicon (Si)-Dissolved (mg/L)	2.51	2.50	2.61	2.60	2.60
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	0.849	0.849	0.876	0.845	0.840
	Strontium (Sr)-Dissolved (mg/L)	0.0552	0.0573	0.0503	0.0415	0.0402
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<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)	0.000487	0.000479	0.000436	0.000350	0.000339
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0572	0.0569	0.0724	0.0933	0.0219
	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	L1455078-11	L1455078-12		
	Description	Grab	Grab		
	Sampled Date	13-MAY-14	13-MAY-14		
	Sampled Time	11:00	11:15		
	Client ID	NF2-B	NF2		
Grouping	Analyte				
<b>WATER</b>					
<b>Dissolved Metals</b>	Selenium (Se)-Dissolved (mg/L)	0.00011	0.00010		
	Silicon (Si)-Dissolved (mg/L)	2.60	2.61		
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010		
	Sodium (Na)-Dissolved (mg/L)	0.833	0.895		
	Strontium (Sr)-Dissolved (mg/L)	0.0402	0.0413		
	Thallium (Tl)-Dissolved (mg/L)	<0.000010	<0.000010		
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010		
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010		
	Uranium (U)-Dissolved (mg/L)	0.000332	0.000356		
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010		
	Zinc (Zn)-Dissolved (mg/L)	0.0080	0.293		
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080		

\* 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)
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Antimony (Sb)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Boron (B)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Molybdenum (Mo)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Uranium (U)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Nitrate (as N)	MS-B	L1455078-1, -10, -11, -12, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L1455078-1, -2, -4, -5, -7, -8
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1455078-1, -10, -11, -12, -2, -4, -5, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Total	MS-B	L1455078-1, -10, -11, -12, -2, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L1455078-1, -10, -11, -12, -2, -5, -6, -7, -8, -9
Matrix Spike	Lead (Pb)-Total	MS-B	L1455078-1, -10, -11, -12, -2, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1455078-1, -10, -11, -12, -2, -5, -6, -7, -8, -9
Matrix Spike	Selenium (Se)-Total	MS-B	L1455078-1, -10, -11, -12, -2, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L1455078-1, -10, -11, -12, -2, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L1455078-1, -10, -11, -12, -2, -5, -6, -7, -8, -9
Matrix Spike	Uranium (U)-Total	MS-B	L1455078-1, -10, -11, -12, -2, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L1455078-3, -6

## Qualifiers for Individual Parameters Listed:

Qualifier	Description
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:

## Reference Information

ALS Test Code	Matrix	Test Description	Method Reference**
<b>ALK-COL-VA</b>	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.			
<b>ANIONS-CL-IC-WR</b>	Water	Chloride by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
<b>ANIONS-F-IC-WR</b>	Water	Fluoride by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
<b>ANIONS-NO2-IC-WR</b>	Water	Nitrite Nitrogen by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003. Nitrate is detected by UV absorbance.			
<b>ANIONS-NO3-IC-WR</b>	Water	Nitrate Nitrogen by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003. Nitrate is detected by UV absorbance.			
<b>ANIONS-SO4-IC-WR</b>	Water	Sulphate by Ion Chromatography	EPA 300.1
This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.			
<b>CARBONS-DOC-VA</b>	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.			
<b>CARBONS-TOC-VA</b>	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)".			
<b>EC-MAN-WR</b>	Water	Conductivity by Meter	APHA 2510 (B)
This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using an 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>IONBALANCE-VA</b>	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]			
<b>MET-D-CCMS-VA</b>	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).			
<b>MET-T-CCMS-VA</b>	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).			
<b>NH3-F-VA</b>	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.			

# Reference Information

**P-T-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-MAN-WR**                  Water        pH by Meter    APHA 4500-H (B)  
"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."

**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-WR**                  Water        Total Suspended Solids by Grav. (1 mg/L)                  APHA 2540 D  
This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and 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
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

### Chain of Custody Numbers:

1                                  2

### 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.*



L1455078-COFC

<b>Report To</b>			<b>Report Form</b>			Below (Rush Turnaround Time (TAT) is not available for all tests)											
Company: EDI			Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL)			R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)											
Contact: Meighan Kearns			Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input type="checkbox"/> No			P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT											
Address: 2195 - 2nd Avenue Whitehorse, YT Y1A 3T8			<input type="checkbox"/> Criteria on Report - provide details below if box checked			E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT											
Phone: 867-393-4882			Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge											
			Email 1 or Fax mkearns@edynamics.com			Specify Date Required for E2,E or P:											
			Email 2 adrienne.turcotte@gov.yk.ca			<b>Analysis Request</b>											
<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX														
Copy of Invoice with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Email 1 or Fax sjenner@edynamics.com														
Company: EDI			Email 2														
Contact: S Jenner																	
<b>Project Information</b>			<b>Oil and Gas Required Fields (client use)</b>														
ALS Quote #: Q38556			Approver ID:			ALK-COL-VA, P-T-COL-VA, IONBALANCE-V										Number of Containers	
Job #: 14-Y-270			GL Account:			ANIONS-ALL-IC-WR, TDS-CALC-VA											
PO / AFE:			Routing Code:			EC-MAN-WR, PH-MAN-WR											
LSD:			Activity Code:			TSS-LOW-WR											
			Location:			CARBONS-TOC-VA, NH3-F-VA											
ALS Lab Work Order # (lab use only)			ALS Contact:			CARBONS-DDOC-VA											
			Sampler: <i>ESM, CB</i>			MET-T-CCMS-VA, ZR-T-MS-VA											
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	MET-D-CCMS-VA, ZR-D-MS-VA										
	R10			13 MAY 14	12:10	GRAB	HARDNESS-CALC-VA										5
	NF1			13 MAY 14	11:55	GRAB											
	Travel Blank			---	---	---											
	Field Blank			13 MAY 14		GRAB											
<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 type="checkbox"/> No			Use CH2M_EQUIS for EDD.			Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>											
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No						Ice packs Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>											
						Cooling Initiated <input type="checkbox"/>											
						INITIAL COOLER TEMPERATURES °C					FINAL COOLER TEMPERATURES °C						
						S.1 B.2											
<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:	Time:	Received by:		Date:	Time:	Received by:		Date:	Time:						
						14-May-14	10:15										



ALS Environmental

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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L1455078-COFC

COC Number: 14 -

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<b>Report To</b>		<b>Report Form</b>			Below (Rush Turnaround Time (TAT) is not available for all tests)												
Company: EDI		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL)			R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3 pm - business days)												
Contact: Meighan Kearns		Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input type="checkbox"/> No			P <input type="checkbox"/> Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT												
Address: 2195 - 2nd Avenue Whitehorse, YT Y1A 3T8		<input type="checkbox"/> Criteria on Report - provide details below if box checked			E <input type="checkbox"/> Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT												
Phone: 867-393-4882		Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			E2 <input type="checkbox"/> Same day or weekend emergency - contact ALS to confirm TAT and surcharge												
		Email 1 or Fax mkearns@edynamics.com			Specify Date Required for E2,E or P:												
		Email 2 adrienne.turcotte@gov.yk.ca			<b>Analysis Request</b>												
<b>Invoice To</b> Same as Report To <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Invoice Distribution</b>			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below												
Copy of Invoice with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX															
Company: EDI		Email 1 or Fax sjenner@edynamics.com															
Contact: S Jenner		Email 2															
<b>Project Information</b>		<b>Oil and Gas Required Fields (client use)</b>															
ALS Quote #: Q38556		Approver ID: _____ Cost Center: _____															
Job #: 14-Y-270		GL Account: _____ Routing Code: _____															
PO / AFE: _____		Activity Code: _____															
LSD: _____		Location: _____															
ALS Lab Work Order # (lab use only)		ALS Contact: _____			Sampler: BSM, CB												
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALK-COL-VA,P,T-COL-VA,IONBALANCE-V	ANIONS-ALL-IC-WR, TDS-CALC-VA	EC-MAN-WR,PH-MAN-WR	TSS-LOW-WR	CARBONS-TOC-VA,NHS-F-VA	CARBONS-DOC-VA	MET-T-COMIS-VA,ZR-T-MS-VA	MET-D-CCMIS-VA,ZR-D-MS-VA	HARDNESS-CALC-VA	Number of Containers			
	X14	13MAY14	9:15	GRAB	R	R	R	R	R	R	R	R	R	5			
	X10	13MAY14	9:35	GRAB	R	R	R	R	R	R	R	R	R				
	X10-F	13MAY14	9:40	GRAB	R	R	R	R	R	R	R	R	R				
	X3A	13MAY14	10:05	GRAB	R	R	R	R	R	R	R	R	R				
	X2	13MAY14	10:25	GRAB	R	R	R	R	R	R	R	R	R				
	NF2-A	13MAY14	10:45	GRAB	R	R	R	R	R	R	R	R	R				
	NF2-B	13MAY14	11:00	GRAB	R	R	R	R	R	R	R	R	R				
	NF2	13MAY14	11:15	GRAB	R	R	R	R	R	R	R	R	R				
<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 type="checkbox"/> No		Use CH2M_EQUIS for EDD.			Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>												
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No					Ice packs Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>												
					Cooling Initiated <input type="checkbox"/>												
					INITIAL COOLER TEMPERATURES °C					FINAL COOLER TEMPERATURES °C							
<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: _____	Time: _____	Received by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____									

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0016 v09 From 04 January 2014

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