

June 18, 2014

EDI Job Number: 14-Y-0270

Assessment and Abandoned Mines
Yukon Government
Box 2703, K-419
Whitehorse, YT Y1A 2C6

Attention: Adrienne Turcotte, Project Officer

Re: Rose Creek Monitoring Program – May 20, 2014

Assessment and Abandoned Mines (AAM) retained EDI Environmental Dynamics Inc. (EDI) to conduct water quality sampling at the Faro Mine Site. The Rose Creek Monitoring Program has been ongoing since November 2013 in response to changing water quality conditions. Table 1, attached, summarizes the field trips completed for the 2014 fiscal year. The intent of this memo is to summarize field data obtained during the May 20, 2014 field trip.

The objective of this trip was to conduct surface water sampling at 10 monitoring sites, including QA/QC samples. Weather conditions on May 20, 2014 were relatively cool; air temperatures were near 7°C and the sky was overcast, with light wind and rain. All of the 10 sites were sampled. Figure 1 provides the locations of all sampling sites. Table 2 summarizes field data collected at each sampling site. Representative photos of each site and the ALS laboratory analytical reports for all water chemistry samples submitted during this field trip are attached.

If you have any questions, please do not hesitate to contact me at (867) 393-4882 or through email at mkearns@edynamics.com.

Yours truly,

EDI Environmental Dynamics Inc.

Submitted via email

Meighan Kearns, B.Sc., R.P.Bio.
Aquatic Biologist



Attachments:

- Table 1. Summary of field trips conducted in the 2014 fiscal year, Rose Creek Monitoring Program.
- Table 2. Surface water sampling field data, Rose Creek Monitoring Program, May 20, 2014.
- Figure 1. Location of surface water sampling, Rose Creek Monitoring Program, May 20, 2014.
- Photos 1 – 10. Representative site photos.
- ALS Laboratory Analytical Reports



Table 1. Summary of field trips conducted in the 2014 fiscal year, Rose Creek Monitoring Program.

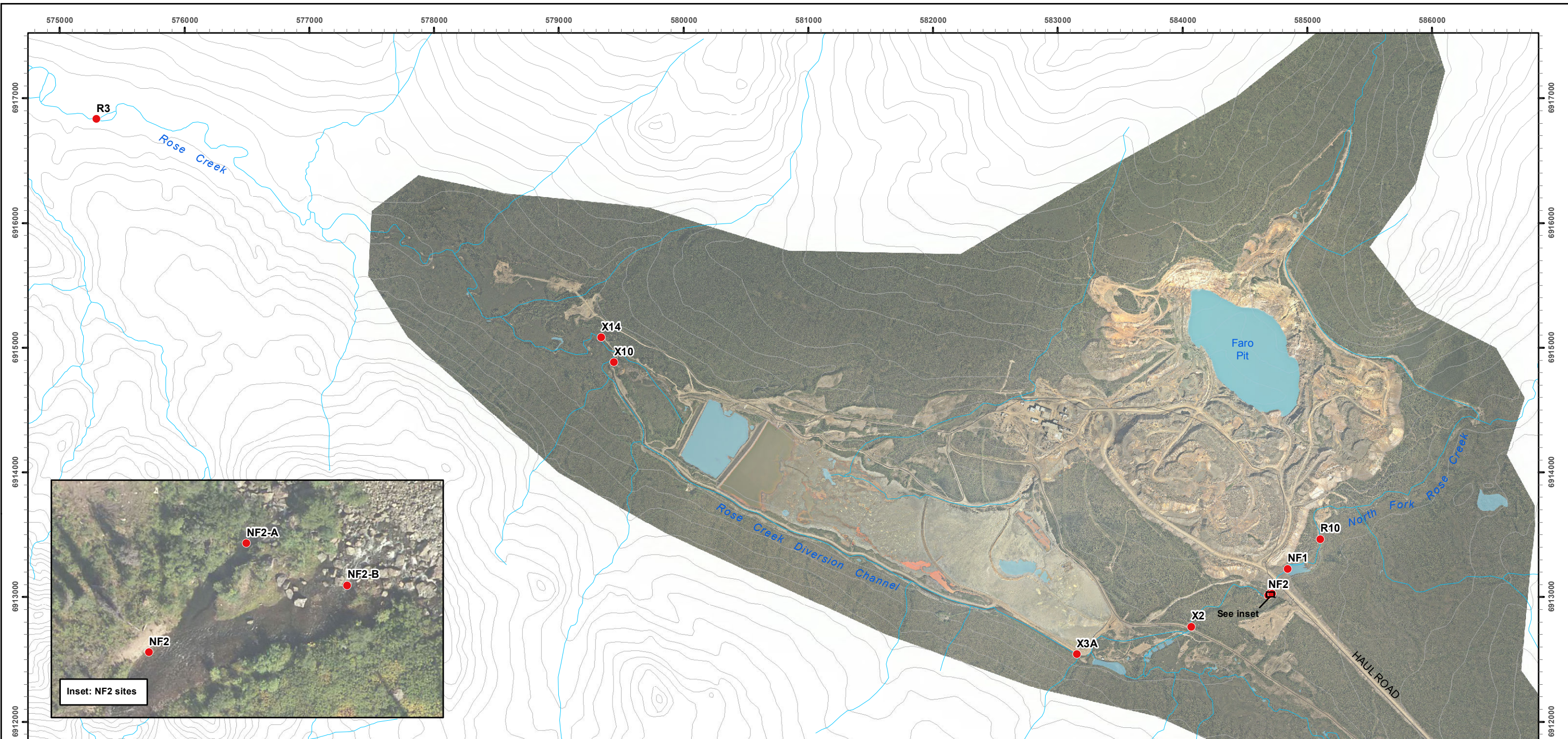
Field Date	General Tasks
April 01, 2014	• Surface water sampling
April 08, 2014	• Surface water sampling
April 15, 2014	• Surface water sampling
April 22, 2014	• Surface water sampling
April 29, 2014	• Surface water sampling
May 06, 2014	• Surface water sampling
May 13, 2014	• Surface water sampling
May 20, 2014	• Surface water sampling



Table 2. Surface water sampling field data, Rose Creek Monitoring Program, May 20, 2014.

Site Name	UTM Location		Sample		QA/ QC Rep. ID	In-situ Parameters			
	Easting	Northing	Date	Time		Temp (°C)	SPC (µS/cm)	pH	Turbidity (NTU)
R3	0575279	6916846	20-May-2014	14:15	-	2.9	131.4	7.45	12.11
X14	0579346	6915082	20-May-2014	14:55	-	2.9	141.8	7.57	10.94
X10	0579405	6914853	20-May-2014	15:07	-	2.9	92.9	7.74	12.06
X3A	0583153	6912542	20-May-2014	15:25	-	2.4	78.8	7.53	13.24
X2	0584068	6912764	20-May-2014	15:45	-	1.9	63.5	7.40	17.98
NF2-A	0584709	6913045	20-May-2014	16:05	-	1.9	61.6	7.41	16.77
NF2-B	0584728	6913029	20-May-2014	16:20	-	2.0	60.5	7.39	16.94
NF2	0584691	6913017	20-May-2014	16:30	-	2.0	65.3	7.37	19.34
NF1	0584893	6913286	20-May-2014	17:10	-	2.6	60.7	7.39	16.71
R10	0585100	6913497	20-May-2014	17:20	R10-r	3.1	57.2	7.44	25.10

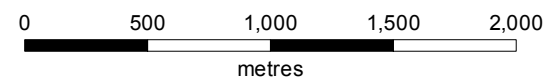
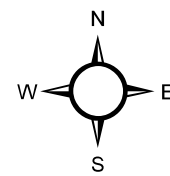
Where, UTM = Universal Transverse Mercator (NAD 83/ Zone 8);
 QA/QC Rep = Quality Assurance/ Quality Control Replicate;
 Temp = water temperature; and,
 SPC = specific conductance.



Location of surface water sampling, Rose Creek Monitoring Program, May 20, 2014

Legend

- Surface Water Sample Collected
- Road (Mine Access/Haul)
- Topographic Contour (30 m Interval)



Map Scale = 1:30,000 (printed on 11 x 17)
 Map Projection: North American Datum 1983 UTM Zone 8N

Data sources

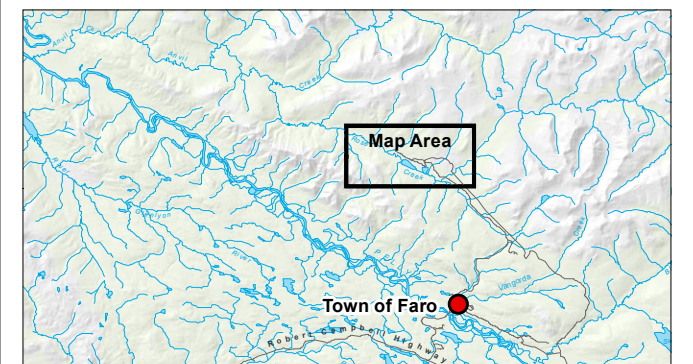
1:50,000 topographic spatial data provided by Geomatics - Yukon Government via online source (Corporate Spatial Warehouse) www.geomaticsyukon.ca.

National Road Network courtesy of Her Majesty the Queen in Right of Canada, Department of Natural Resources. All Rights Reserved.

Detailed topographic features of the Faro, Grum and Vangorda mine sites were provided by Yukon Government - Energy, Mines and Resources - Assessment and Abandoned Mines Branch (March 2012).

Project data displayed is site specific. Data collected by EDI Environmental Dynamics Inc. was obtained using Garmin GPS technology.

This document is not an official land survey and the spatial data presented is subject to change.



Map Prepared by
 EDI Environmental Dynamics Inc.

Drawn: LG	Checked: MK	FIGURE 1	Date: 29/04/2014
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Site Photos



Photo 1. Downstream view at surface water sampling site R3, May 20, 2014



Photo 2. Upstream view at surface water sampling site X14, May 20, 2014.



Photo 3. Downstream view at surface water sampling site X10, May 20, 2014.



Photo 4. Overview at surface water sampling site X3A, May 20, 2014.



Photo 5. Overview at surface water sampling site X2, May 20, 2014.



Photo 6. Downstream view at surface water sampling site NF2-A, May 20, 2014.



Photo 7. Overview from surface water sampling site NF2-B, May 20, 2014.



Photo 8. Upstream view at surface water sampling site NF2, May 13, 2014.



Photo 9. Overview at surface water sampling site NF1, May 20, 2014.



Photo 10. Upstream view at surface water sampling site R10, May 20, 2014.



ENVIRONMENTAL DYNAMICS INC.
ATTN: Meighan Kearns
2195 - 2nd Avenue
Whitehorse YT Y1A 3T8

Date Received: 21-MAY-14
Report Date: 09-JUN-14 17:04 (MT)
Version: FINAL

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1458001
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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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1458001-1 Grab 20-MAY-14 14:55 X14	L1458001-2 Grab 20-MAY-14 15:07 X10	L1458001-3 Grab 20-MAY-14 15:25 X3A	L1458001-4 Grab 20-MAY-14 15:45 X2	L1458001-5 Grab 20-MAY-14 16:05 NF2-A
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	143	93.7	75.4	65.7	63.6
	Hardness (as CaCO3) (mg/L)	63.4	42.7	34.1	30.1	29.7
	pH (pH)	7.30	7.61	7.39	7.28	7.24
	Total Suspended Solids (mg/L)	14.2	14.8	25.4	17.6	15.2
	Total Dissolved Solids (mg/L)	86.6	57.3	48.8	43.9	42.6
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	46.9	41.8	32.6	27.8	26.5
	Ammonia, Total (as N) (mg/L)	0.0096	<0.0050	<0.0050	<0.0050	0.0058
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.069	0.067	0.064	0.063	0.071
	Nitrate (as N) (mg/L)	0.0221	0.0303	0.0218	0.0276	0.0173
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0249	0.0283	0.0421	0.0264	0.0313
	Sulfate (SO4) (mg/L)	24.4	6.39	5.22	4.21	3.89
	Anion Sum (meq/L)	1.45	0.98	0.76	0.65	0.62
	Cation Sum (meq/L)	1.37	0.93	0.76	0.68	0.67
	Cation - Anion Balance (%)	-2.8	-2.5	-0.3	2.1	4.3
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	8.54	8.45	9.20	10.6	9.70
	Total Organic Carbon (mg/L)	8.52	8.59	9.56	10.1	9.95
Total Metals	Aluminum (Al)-Total (mg/L)	0.413	0.412	0.548	0.616	0.619
	Antimony (Sb)-Total (mg/L)	0.00015	0.00019	0.00018	0.00018	0.00016
	Arsenic (As)-Total (mg/L)	0.00086	0.00090	0.00107	0.00111	0.00102
	Barium (Ba)-Total (mg/L)	0.0350	0.0322	0.0326	0.0333	0.0324
	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)	0.000062	0.000062	0.000081	0.000088	0.000082
	Calcium (Ca)-Total (mg/L)	18.7	12.8	10.1	9.61	8.91
	Chromium (Cr)-Total (mg/L)	0.00097	0.00097	0.00111	0.00125	0.00122
	Cobalt (Co)-Total (mg/L)	0.00091	0.00044	0.00055	0.00061	0.00057
	Copper (Cu)-Total (mg/L)	0.00255	0.00243	0.00281	0.00309	0.00291
	Iron (Fe)-Total (mg/L)	0.826	0.759	0.995	0.992	0.995
	Lead (Pb)-Total (mg/L)	0.00382	0.00361	0.00537	0.00690	0.00527
	Lithium (Li)-Total (mg/L)	0.00218	0.00181	0.00214	0.00253	0.00209
	Magnesium (Mg)-Total (mg/L)	4.62	3.13	2.22	2.07	1.94
	Manganese (Mn)-Total (mg/L)	0.405	0.0366	0.0448	0.0433	0.0378
	Molybdenum (Mo)-Total (mg/L)	0.000277	0.000285	0.000274	0.000277	0.000250

* 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	L1458001-6 Grab 20-MAY-14 16:20 NF2-B	L1458001-7 Grab 20-MAY-14 16:30 NF2	L1458001-8 Grab 20-MAY-14 17:10 NF1	L1458001-9 Grab 20-MAY-14 17:20 R10	L1458001-10 Grab 20-MAY-14 17:25 R10-R
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	62.4	68.9	61.5	58.6	59.2
	Hardness (as CaCO3) (mg/L)	28.9	30.6	28.9	28.7	28.6
	pH (pH)	7.21	7.18	7.23	7.27	7.29
	Total Suspended Solids (mg/L)	18.6	19.8	15.4	54.4	53.6
	Total Dissolved Solids (mg/L)	42.2	46.0	42.4	41.5	40.8
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	27.6	28.0	27.9	25.7	24.4
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.062	0.065	0.059	0.063	0.060
	Nitrate (as N) (mg/L)	0.0163	0.0240	0.0141	0.0120	0.0114
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0225	0.0312	0.0255	0.0725	0.0346
	Sulfate (SO4) (mg/L)	3.34	6.02	3.42	3.11	3.07
	Anion Sum (meq/L)	0.63	0.69	0.63	0.58	0.56
	Cation Sum (meq/L)	0.65	0.70	0.65	0.65	0.64
	Cation - Anion Balance (%)	1.9	0.4	1.5	5.2	7.3
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	9.89	10.3	9.63	10.5	10.7
	Total Organic Carbon (mg/L)	9.89	9.96	9.83	10.6	10.8
Total Metals	Aluminum (Al)-Total (mg/L)	0.658	0.682	0.569	1.33	1.45
	Antimony (Sb)-Total (mg/L)	0.00014	0.00014	0.00013	0.00018	0.00019
	Arsenic (As)-Total (mg/L)	0.00111	0.00102	0.00093	0.00152	0.00162
	Barium (Ba)-Total (mg/L)	0.0328	0.0328	0.0317	0.0463	0.0474
	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)	0.000048	0.000191	0.000047	0.000079	0.000076
	Calcium (Ca)-Total (mg/L)	8.98	8.75	9.12	8.97	9.09
	Chromium (Cr)-Total (mg/L)	0.00136	0.00137	0.00106	0.00254	0.00283
	Cobalt (Co)-Total (mg/L)	0.00047	0.00122	0.00035	0.00086	0.00091
	Copper (Cu)-Total (mg/L)	0.00315	0.00315	0.00277	0.00398	0.00435
	Iron (Fe)-Total (mg/L)	1.03	1.08	0.844	2.03	2.15
	Lead (Pb)-Total (mg/L)	0.00680	0.00662	0.00446	0.00894	0.0105
	Lithium (Li)-Total (mg/L)	0.00228	0.00241	0.00197	0.00346	0.00350
	Magnesium (Mg)-Total (mg/L)	1.93	2.30	1.92	2.01	2.14
	Manganese (Mn)-Total (mg/L)	0.0323	0.0687	0.0259	0.0564	0.0595
	Molybdenum (Mo)-Total (mg/L)	0.000272	0.000266	0.000245	0.000300	0.000314

* 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	L1458001-11 Grab 20-MAY-14 18:50 FIELD BLANK	L1458001-12 Grab 21-MAY-14 11:20 TRIP BLANK	L1458001-13 Grab 20-MAY-14 14:15 R3	
Grouping	Analyte				
WATER					
Physical Tests	Conductivity (uS/cm)	<2.0	<2.0	132	
	Hardness (as CaCO3) (mg/L)	179	<0.50	59.7	
	pH (pH)	5.91	5.63	7.93	
	Total Suspended Solids (mg/L)	<1.0	<1.0	17.0	
	Total Dissolved Solids (mg/L)	69.7	<1.0	79.2	
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	<2.0	<2.0	44.8	
	Ammonia, Total (as N) (mg/L)	<0.0050	<0.0050	0.0107	
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	
	Fluoride (F) (mg/L)	<0.020	<0.020	0.066	
	Nitrate (as N) (mg/L)	<0.0050	<0.0050	0.0253	
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	
	Phosphorus (P)-Total (mg/L)	<0.0020	<0.0020	0.0145	
	Sulfate (SO4) (mg/L)	<0.50	<0.50	20.3	
	Anion Sum (meq/L)	<0.10	<0.10	1.32	
	Cation Sum (meq/L)	4.09	<0.10	1.29	
	Cation - Anion Balance (%)	0.0	0.0	-1.3	
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	0.68 ^{RRV}		7.99	
	Total Organic Carbon (mg/L)	0.59 ^{RRV}	<0.50	7.85	
Total Metals	Aluminum (Al)-Total (mg/L)	<0.0030	<0.0030	0.479	
	Antimony (Sb)-Total (mg/L)	0.00013 ^{RRV}	<0.00010	<0.00010	
	Arsenic (As)-Total (mg/L)	0.00430 ^{RRV}	<0.00010	0.00091	
	Barium (Ba)-Total (mg/L)	0.0344 ^{RRV}	<0.000050	0.0362	
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010	<0.00010	
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050	<0.00050	
	Boron (B)-Total (mg/L)	0.015 ^{RRV}	<0.010	<0.010	
	Cadmium (Cd)-Total (mg/L)	<0.000010	<0.000010	0.000059	
	Calcium (Ca)-Total (mg/L)	33.1 ^{RRV}	<0.020	18.2	
	Chromium (Cr)-Total (mg/L)	0.00012 ^{RRV}	<0.00010	0.00111	
	Cobalt (Co)-Total (mg/L)	<0.00010	<0.00010	0.00088	
	Copper (Cu)-Total (mg/L)	0.0234 ^{RRV}	<0.00050	0.00254	
	Iron (Fe)-Total (mg/L)	<0.010	<0.010	0.860	
	Lead (Pb)-Total (mg/L)	<0.000050	<0.000050	0.00446	
	Lithium (Li)-Total (mg/L)	0.00080 ^{RRV}	<0.00050	0.00214	
	Magnesium (Mg)-Total (mg/L)	23.4 ^{RRV}	<0.0050	3.99	
	Manganese (Mn)-Total (mg/L)	0.000080 ^{RRV}	<0.000050	0.361	
	Molybdenum (Mo)-Total (mg/L)	0.00444 ^{RRV}	<0.000050	0.000318	

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1458001-1	L1458001-2	L1458001-3	L1458001-4	L1458001-5
		Description	Grab	Grab	Grab	Grab	Grab
		Sampled Date	20-MAY-14	20-MAY-14	20-MAY-14	20-MAY-14	20-MAY-14
		Sampled Time	14:55	15:07	15:25	15:45	16:05
		Client ID	X14	X10	X3A	X2	NF2-A
Grouping	Analyte						
WATER							
Total Metals	Nickel (Ni)-Total (mg/L)		0.00238	0.00193	0.00209	0.00231	0.00233
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		0.895	0.800	0.844	0.935	0.827
	Selenium (Se)-Total (mg/L)		0.00026	0.00026	0.00021	0.00020	0.00016
	Silicon (Si)-Total (mg/L)		3.56	3.37	3.68	3.96	3.91
	Silver (Ag)-Total (mg/L)		0.000050	0.000033	0.000031	0.000031	0.000030
	Sodium (Na)-Total (mg/L)		1.30	0.912	0.954	0.966	0.920
	Strontium (Sr)-Total (mg/L)		0.0769	0.0586	0.0484	0.0463	0.0424
	Thallium (Tl)-Total (mg/L)		0.000020	0.000063	0.000055	0.000051	0.000036
	Tin (Sn)-Total (mg/L)		0.00012	0.00016	0.00013	0.00013	0.00011
	Titanium (Ti)-Total (mg/L)		0.014	0.013	0.019	0.021	0.021
	Uranium (U)-Total (mg/L)		0.000668	0.000578	0.000490	0.000422	0.000407
	Vanadium (V)-Total (mg/L)		0.0011	0.0012	0.0015	0.0018	0.0017
	Zinc (Zn)-Total (mg/L)		0.0377	0.0362	0.0504	0.0539	0.0538
	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)		0.0497	0.0510	0.0631	0.0725	0.0753
	Antimony (Sb)-Dissolved (mg/L)		0.00010	0.00012	0.00013	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00045	0.00045	0.00051	0.00052	0.00050
	Barium (Ba)-Dissolved (mg/L)		0.0266	0.0256	0.0231	0.0218	0.0214
	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)		0.000037	0.000035	0.000045	0.000048	0.000054
	Calcium (Ca)-Dissolved (mg/L)		18.6	12.1	10.2	9.00	8.96
	Chromium (Cr)-Dissolved (mg/L)		0.00014	0.00011	0.00013	0.00012	0.00013
	Cobalt (Co)-Dissolved (mg/L)		0.00054	0.00013	0.00020	0.00020	0.00020
	Copper (Cu)-Dissolved (mg/L)		0.00162	0.00162	0.00175	0.00190	0.00183
	Iron (Fe)-Dissolved (mg/L)		0.154	0.132	0.179	0.153	0.152
	Lead (Pb)-Dissolved (mg/L)		0.000786	0.000790	0.00129	0.00158	0.00151
	Lithium (Li)-Dissolved (mg/L)		0.00172	0.00123	0.00159	0.00158	0.00153
	Magnesium (Mg)-Dissolved (mg/L)		4.14	3.06	2.08	1.84	1.79
	Manganese (Mn)-Dissolved (mg/L)		0.352	0.0107	0.0174	0.0133	0.0126
	Molybdenum (Mo)-Dissolved (mg/L)		0.000256	0.000232	0.000210	0.000198	0.000194
	Nickel (Ni)-Dissolved (mg/L)		0.00142	0.00094	0.00106	0.00109	0.00107
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		0.821	0.754	0.746	0.731	0.724

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

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1458001-6	L1458001-7	L1458001-8	L1458001-9	L1458001-10
		Description	Grab	Grab	Grab	Grab	Grab
		Sampled Date	20-MAY-14	20-MAY-14	20-MAY-14	20-MAY-14	20-MAY-14
		Sampled Time	16:20	16:30	17:10	17:20	17:25
		Client ID	NF2-B	NF2	NF1	R10	R10-R
Grouping	Analyte						
WATER							
Total Metals	Nickel (Ni)-Total (mg/L)		0.00223	0.00335	0.00187	0.00313	0.00337
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		0.863	0.829	0.840	0.919	1.00
	Selenium (Se)-Total (mg/L)		0.00017	0.00016	0.00015	0.00015	0.00016
	Silicon (Si)-Total (mg/L)		3.96	4.09	3.85	4.98	5.24
	Silver (Ag)-Total (mg/L)		0.000031	0.000028	0.000021	0.000046	0.000047
	Sodium (Na)-Total (mg/L)		0.928	0.982	0.913	0.911	0.956
	Strontium (Sr)-Total (mg/L)		0.0437	0.0433	0.0429	0.0442	0.0455
	Thallium (Tl)-Total (mg/L)		0.000025	0.000028	0.000019	0.000041	0.000036
	Tin (Sn)-Total (mg/L)		0.00011	<0.00010	<0.00010	0.00013	0.00014
	Titanium (Ti)-Total (mg/L)		0.022	0.024	0.026	0.050	0.103
	Uranium (U)-Total (mg/L)		0.000420	0.000432	0.000425	0.000536	0.000543
	Vanadium (V)-Total (mg/L)		0.0020	0.0019	0.0015	0.0034	0.0039
	Zinc (Zn)-Total (mg/L)		0.0106	0.197	0.0119	0.0139	0.0149
	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)		0.0736	0.0759	0.0791	0.0857	0.0818
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00049	0.00049	0.00046	0.00047	0.00046
	Barium (Ba)-Dissolved (mg/L)		0.0215	0.0219	0.0232	0.0226	0.0227
	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)		0.000021	0.000146	0.000023	0.000037	0.000025
	Calcium (Ca)-Dissolved (mg/L)		8.78	8.80	8.72	8.85	8.81
	Chromium (Cr)-Dissolved (mg/L)		0.00013	0.00014	0.00013	0.00013	0.00013
	Cobalt (Co)-Dissolved (mg/L)		<0.00010	0.00073	<0.00010	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00186	0.00183	0.00179	0.00187	0.00179
	Iron (Fe)-Dissolved (mg/L)		0.147	0.164	0.148	0.147	0.147
	Lead (Pb)-Dissolved (mg/L)		0.00166	0.00169	0.00152	0.00188	0.00177
	Lithium (Li)-Dissolved (mg/L)		0.00148	0.00157	0.00155	0.00145	0.00150
	Magnesium (Mg)-Dissolved (mg/L)		1.68	2.10	1.73	1.59	1.60
	Manganese (Mn)-Dissolved (mg/L)		0.00370	0.0397	0.00902	0.00839	0.00844
	Molybdenum (Mo)-Dissolved (mg/L)		0.000200	0.000200	0.000195	0.000200	0.000189
	Nickel (Ni)-Dissolved (mg/L)		0.00086	0.00187	0.00079	0.00084	0.00077
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		0.730	0.722	0.713	0.693	0.704

* 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	L1458001-11 Grab 20-MAY-14 18:50 FIELD BLANK	L1458001-12 Grab 21-MAY-14 11:20 TRIP BLANK	L1458001-13 Grab 20-MAY-14 14:15 R3	
Grouping	Analyte				
WATER					
Total Metals	Nickel (Ni)-Total (mg/L)	<0.00050	<0.00050	0.00225	
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	
	Potassium (K)-Total (mg/L)	2.16 ^{RRV}	<0.050	0.903	
	Selenium (Se)-Total (mg/L)	0.00026 ^{RRV}	<0.00010	0.00016	
	Silicon (Si)-Total (mg/L)	6.53 ^{RRV}	<0.050	3.86	
	Silver (Ag)-Total (mg/L)	0.00880 ^{RRV}	<0.000010	0.000035	
	Sodium (Na)-Total (mg/L)	10.4 ^{RRV}	<0.050	1.29	
	Strontium (Sr)-Total (mg/L)	0.292 ^{RRV}	<0.00020	0.0714	
	Thallium (Tl)-Total (mg/L)	<0.000010	<0.000010	0.000013	
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	<0.00010	
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	0.015	
	Uranium (U)-Total (mg/L)	0.00314 ^{RRV}	<0.000010	0.000629	
	Vanadium (V)-Total (mg/L)	0.0016 ^{RRV}	<0.0010	0.0016	
	Zinc (Zn)-Total (mg/L)	0.0084 ^{RRV}	<0.0030	0.0364	
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	<0.00080	
Dissolved Metals	Dissolved Metals Filtration Location			FIELD	
	Aluminum (Al)-Dissolved (mg/L)			0.0465	
	Antimony (Sb)-Dissolved (mg/L)			<0.00010	
	Arsenic (As)-Dissolved (mg/L)			0.00036	
	Barium (Ba)-Dissolved (mg/L)			0.0237	
	Beryllium (Be)-Dissolved (mg/L)			<0.00010	
	Bismuth (Bi)-Dissolved (mg/L)			<0.00050	
	Boron (B)-Dissolved (mg/L)			<0.010	
	Cadmium (Cd)-Dissolved (mg/L)			0.000033	
	Calcium (Ca)-Dissolved (mg/L)			17.7	
	Chromium (Cr)-Dissolved (mg/L)			0.00011	
	Cobalt (Co)-Dissolved (mg/L)			0.00038	
	Copper (Cu)-Dissolved (mg/L)			0.00151	
	Iron (Fe)-Dissolved (mg/L)			0.119	
	Lead (Pb)-Dissolved (mg/L)			0.000633	
	Lithium (Li)-Dissolved (mg/L)			0.00122	
	Magnesium (Mg)-Dissolved (mg/L)			3.75	
	Manganese (Mn)-Dissolved (mg/L)			0.246	
	Molybdenum (Mo)-Dissolved (mg/L)			0.000234	
	Nickel (Ni)-Dissolved (mg/L)			0.00112	
	Phosphorus (P)-Dissolved (mg/L)			<0.30	
	Potassium (K)-Dissolved (mg/L)			0.808	

* 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	L1458001-1 Grab 20-MAY-14 14:55 X14	L1458001-2 Grab 20-MAY-14 15:07 X10	L1458001-3 Grab 20-MAY-14 15:25 X3A	L1458001-4 Grab 20-MAY-14 15:45 X2	L1458001-5 Grab 20-MAY-14 16:05 NF2-A
Grouping	Analyte					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00018	0.00021	0.00017	0.00013	0.00013
	Silicon (Si)-Dissolved (mg/L)	2.97	2.87	3.03	3.04	3.09
	Silver (Ag)-Dissolved (mg/L)	<0.000010	0.000010	0.000011	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	1.24	0.912	0.935	0.892	0.908
	Strontium (Sr)-Dissolved (mg/L)	0.0745	0.0576	0.0501	0.0425	0.0420
	Thallium (Tl)-Dissolved (mg/L)	0.000014	0.000030	0.000050	0.000019	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)	0.000600	0.000515	0.000417	0.000342	0.000340
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.0342	0.0288	0.0434	0.0449	0.0497
	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	L1458001-6	L1458001-7	L1458001-8	L1458001-9	L1458001-10
		Description	Grab	Grab	Grab	Grab	Grab
		Sampled Date	20-MAY-14	20-MAY-14	20-MAY-14	20-MAY-14	20-MAY-14
		Sampled Time	16:20	16:30	17:10	17:20	17:25
		Client ID	NF2-B	NF2	NF1	R10	R10-R
Grouping	Analyte						
WATER							
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)		0.00013	0.00013	0.00012	0.00012	0.00011
	Silicon (Si)-Dissolved (mg/L)		3.08	3.03	3.09	3.08	3.13
	Silver (Ag)-Dissolved (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)		0.875	0.965	0.879	0.872	0.849
	Strontium (Sr)-Dissolved (mg/L)		0.0408	0.0423	0.0419	0.0397	0.0402
	Thallium (Tl)-Dissolved (mg/L)		0.000015	0.000014	<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)		0.000337	0.000351	0.000353	0.000349	0.000329
	Vanadium (V)-Dissolved (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)		0.0056	0.178	0.0080	0.0058	0.0055
	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	L1458001-11	L1458001-12	L1458001-13		
Description	Grab	Grab	Grab	Grab		
Sampled Date	20-MAY-14	21-MAY-14	20-MAY-14	20-MAY-14		
Sampled Time	18:50	11:20	14:15	14:15		
Client ID	FIELD BLANK	TRIP BLANK	R3	R3		
Grouping	Analyte					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)			0.00014		
	Silicon (Si)-Dissolved (mg/L)			3.13		
	Silver (Ag)-Dissolved (mg/L)			<0.000010		
	Sodium (Na)-Dissolved (mg/L)			1.24		
	Strontium (Sr)-Dissolved (mg/L)			0.0676		
	Thallium (Tl)-Dissolved (mg/L)			<0.000010		
	Tin (Sn)-Dissolved (mg/L)			<0.00010		
	Titanium (Ti)-Dissolved (mg/L)			<0.010		
	Uranium (U)-Dissolved (mg/L)			0.000531		
	Vanadium (V)-Dissolved (mg/L)			<0.0010		
	Zinc (Zn)-Dissolved (mg/L)			0.0261		
	Zirconium (Zr)-Dissolved (mg/L)			<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)
Matrix Spike	Arsenic (As)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Phosphorus (P)-Total	MS-B	L1458001-1, -10, -11, -12, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Total Organic Carbon	MS-B	L1458001-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Dissolved Organic Carbon	MS-B	L1458001-1, -2, -3, -4, -5, -6, -7, -8
Matrix Spike	Dissolved Organic Carbon	MS-B	L1458001-10, -13, -9
Matrix Spike	Dissolved Organic Carbon	MS-B	L1458001-11
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1458001-1, -10, -13, -2, -3, -4, -5, -6, -7, -8, -9

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:

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-WR	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.			
ANIONS-F-IC-WR	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.			
ANIONS-NO2-IC-WR	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.			
ANIONS-NO3-IC-WR	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.			
ANIONS-SO4-IC-WR	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.			
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-MAN-WR	Water	Conductivity by Meter	APHA 2510 (B)

Reference Information

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using an 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.

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:

$$\text{Ion Balance (\%)} = \frac{[\text{Cation Sum} - \text{Anion Sum}]}{[\text{Cation Sum} + \text{Anion Sum}]}$$

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 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

Reference Information

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.



Report To		Report Format / Distribution				Select Service Level 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 checked="" 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				Analysis Request													
Invoice To Same as Report To <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Invoice Distribution				Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) 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:																	
Project Information				Oil and Gas Required Fields (client use)															
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, CR															
ALS Sample # (lab use only)	Sample Identification (This description is for the report)	Coordinates	Date (dd-mm-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, NH3-F-VA	CARBONS-DOC-VA	MET-T-CMS-VA, ZR-T-MS-VA	MET-D-CMS-VA, ZR-D-MS-VA	HARDNESS-CALC-VA	Number of Containers				
1	X14		20MAY14	14:55	GRAB	R	R	R	R	R	R	R	R	R	5				
2	X10		20MAY14	15:07	GRAB	R													
3	X3A		20MAY14	15:25	GRAB	R													
4	X2		20MAY14	15:45	GRAB	R													
5	BS		20MAY14	14:15	GRAB	R													
5	NFZ-A		20MAY14	16:05	GRAB	R													
6	NFZ-B		20MAY14	16:20	GRAB	R													
7	NFZ		20MAY14	16:30	GRAB	R													
Drinking Water (DW) Samples¹ (client use)		Special Instructions / Specify Criteria to add on report (client use)				SAMPLE CONDITION AS RECEIVED (lab use only)													
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No		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		No dissolved metals for field blank.				Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>													
						Cooling Initiated <input checked="" type="checkbox"/>													
						INITIAL COOLER TEMPERATURES °C						FINAL COOLER TEMPERATURES °C							
						1.8						2.0							
SHIPMENT RELEASE (client use)				INITIAL SHIPMENT RECEPTION (lab use only)				FINAL SHIPMENT RECEPTION (lab use only)											
Released by:		Date:		Time:		Received by:		Date:		Time:		Received by:		Date:		Time:			
						<i>[Signature]</i>		21-MAY-14		11:20		<i>[Signature]</i>		May 22		14:40			

Short Holding Time
Rush Processing

4.7, 4.4, 5.4
3.7

