



ENVIRONMENTAL DYNAMICS INC.
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Date Received: 15-NOV-13
Report Date: 03-DEC-13 15:53 (MT)
Version: FINAL REV. 2

Client Phone: 867-393-4882

Certificate of Analysis

Lab Work Order #: L1392267
Project P.O. #: NOT SUBMITTED
Job Reference: 13-Y-0452
C of C Numbers: 1, 2
Legal Site Desc:

Comments: 3-DEC-2013 This report replaces and supersedes previously sent report. This report includes the modified sample id for ALS identified sample L1392267-7 and -8.

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1392267-1 Surface Water 14-NOV-13 09:45 NF2	L1392267-2 Surface Water 14-NOV-13 09:20 X2	L1392267-3 Surface Water 14-NOV-13 09:00 X3A	L1392267-4 Surface Water 14-NOV-13 08:30 X10	L1392267-5 Surface Water 14-NOV-13 10:00 F1 (FIELD BLANK)	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	466	309	327	401	<2.0
	Hardness (as CaCO3) (mg/L)	118	123	130	132	<0.50
	pH (pH)	7.36	7.38	7.48	7.79	5.79
	Total Suspended Solids (mg/L)	4.8	<1.0	3.6	<1.0	<1.0
	Total Dissolved Solids (mg/L)	136	139	149	148	<1.0
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	104	104	105	111	<2.0
	Ammonia, Total (as N) (mg/L)	0.0068	0.0059	0.0133	0.0082	<0.0050
	Chloride (Cl) (mg/L)	<0.50	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.141	0.139	0.135	0.131	<0.020
	Nitrate (as N) (mg/L)	0.176	0.168	0.145	0.138	<0.0050
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	0.0064	0.0044	0.0025	0.0023	<0.0020
	Sulfate (SO4) (mg/L)	24.0	25.5	30.4	27.8	<0.50
	Anion Sum (meq/L)	2.60	2.64	2.75	2.80	<0.10
	Cation Sum (meq/L)	2.52	2.61	2.90	2.79	<0.10
Cation - Anion Balance (%)	-1.5	-0.6	2.6	-0.3	0.0	
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.68	1.74	1.69	1.76	<0.50
	Total Organic Carbon (mg/L)	1.80	1.71	1.87	2.07	<0.50
Total Metals	Aluminum (Al)-Total (mg/L)	0.0440	0.0122	0.0184	0.0081	<0.0030
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00054	0.00040	0.00037	0.00029	<0.00010
	Barium (Ba)-Total (mg/L)	0.0618	0.0590	0.0605	0.0615	<0.000050
	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)	0.000249	0.000185	0.000134	0.000088	<0.000010
	Calcium (Ca)-Total (mg/L)	35.4	34.3	40.2	39.4	<0.020
	Chromium (Cr)-Total (mg/L)	0.00020	0.00013	0.00012	0.00011	<0.00010
	Cobalt (Co)-Total (mg/L)	0.00208	0.00141	0.00111	0.00063	<0.00010
	Copper (Cu)-Total (mg/L)	0.00070	<0.00050	0.00053	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	0.284	0.116	8.89	0.319	<0.010
	Lead (Pb)-Total (mg/L)	0.00176	0.000682	0.000491	0.000328	<0.000050
	Lithium (Li)-Total (mg/L)	0.00529	0.00547	0.00437	0.00405	<0.00050
	Magnesium (Mg)-Total (mg/L)	7.84	8.38	8.41	8.63	<0.0050
	Manganese (Mn)-Total (mg/L)	0.146	0.128	0.265	0.117	<0.000050
	Molybdenum (Mo)-Total (mg/L)	0.000628	0.000618	0.000577	0.000540	<0.000050

* 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	L1392267-6 Surface Water 14-NOV-13 08:06 X14	L1392267-7 Surface Water 14-NOV-13 09:00 X3A-R	L1392267-8 Surface Water 14-NOV-13 12:05 NF1-F	L1392267-9 Surface Water 14-NOV-13 12:30 R8	L1392267-10 Surface Water 14-NOV-13 11:50 R9	
Grouping	Analyte					
WATER						
Physical Tests	Conductivity (uS/cm)	810	465	399	336	206
	Hardness (as CaCO3) (mg/L)	416	127	115	96.2	111
	pH (pH)	7.61	7.44	7.61	7.81	7.77
	Total Suspended Solids (mg/L)	5.6	13.0	6.2	3.2	<1.0
	Total Dissolved Solids (mg/L)	554	158	127	107	124
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	146	99.0	103	96.3	102
	Ammonia, Total (as N) (mg/L)	0.139	0.0118	0.0122	0.0070	0.0055
	Chloride (Cl) (mg/L)	0.56	<0.50	<0.50	<0.50	<0.50
	Fluoride (F) (mg/L)	0.133	0.136	0.135	0.132	0.127
	Nitrate (as N) (mg/L)	0.122	0.146	0.182	0.0995	0.167
	Nitrite (as N) (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Phosphorus (P)-Total (mg/L)	<0.0020	0.0034	0.0063	0.0069	0.0090
	Sulfate (SO4) (mg/L)	295	40.7	17.4	8.87	16.6
	Anion Sum (meq/L)	9.10	2.84	2.45	2.12	2.41
	Cation Sum (meq/L)	9.09	2.98	2.42	2.05	2.35
	Cation - Anion Balance (%)	-0.1	2.4	-0.5	-1.7	-1.3
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.69	1.81	1.93	1.75	1.78
	Total Organic Carbon (mg/L)	1.62	1.84	2.12	1.79	1.68
Total Metals	Aluminum (Al)-Total (mg/L)	0.0139	0.0275	0.0282	0.0201	0.0151
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Total (mg/L)	0.00035	0.00037	0.00068	0.00058	0.00049
	Barium (Ba)-Total (mg/L)	0.0540	0.0575	0.0603	0.0543	0.0560
	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)	0.000098	0.000132	0.000019	<0.000010	<0.000010
	Calcium (Ca)-Total (mg/L)	122	39.0	34.3	29.6	33.4
	Chromium (Cr)-Total (mg/L)	0.00010	0.00016	0.00021	0.00035	0.00013
	Cobalt (Co)-Total (mg/L)	0.0146	0.00100	0.00014	<0.00010	<0.00010
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050	0.00073	<0.00050	<0.00050
	Iron (Fe)-Total (mg/L)	2.49	7.43	0.168	0.125	0.093
	Lead (Pb)-Total (mg/L)	0.000279	0.000572	0.00138	0.000121	0.000105
	Lithium (Li)-Total (mg/L)	0.00664	0.00393	0.00462	0.00417	0.00450
	Magnesium (Mg)-Total (mg/L)	27.3	8.54	6.96	6.02	6.92
	Manganese (Mn)-Total (mg/L)	8.21	0.236	0.0567	0.0231	0.0236
	Molybdenum (Mo)-Total (mg/L)	0.000664	0.000518	0.000715	0.000660	0.000642

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID				
	L1392267-11 Surface Water 14-NOV-13 11:30 R10				
Grouping	Analyte				
WATER					
Physical Tests	Conductivity (uS/cm)	210			
	Hardness (as CaCO3) (mg/L)	112			
	pH (pH)	7.64			
	Total Suspended Solids (mg/L)	<1.0			
	Total Dissolved Solids (mg/L)	125			
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	102			
	Ammonia, Total (as N) (mg/L)	0.0057			
	Chloride (Cl) (mg/L)	<0.50			
	Fluoride (F) (mg/L)	0.132			
	Nitrate (as N) (mg/L)	0.168			
	Nitrite (as N) (mg/L)	<0.0010			
	Phosphorus (P)-Total (mg/L)	0.0048			
	Sulfate (SO4) (mg/L)	17.2			
	Anion Sum (meq/L)	2.42			
	Cation Sum (meq/L)	2.37			
	Cation - Anion Balance (%)	-0.9			
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.69			
	Total Organic Carbon (mg/L)	1.75			
Total Metals	Aluminum (Al)-Total (mg/L)	0.0152			
	Antimony (Sb)-Total (mg/L)	<0.00010			
	Arsenic (As)-Total (mg/L)	0.00049			
	Barium (Ba)-Total (mg/L)	0.0578			
	Beryllium (Be)-Total (mg/L)	<0.00010			
	Bismuth (Bi)-Total (mg/L)	<0.00050			
	Boron (B)-Total (mg/L)	<0.010			
	Cadmium (Cd)-Total (mg/L)	0.000016			
	Calcium (Ca)-Total (mg/L)	34.1			
	Chromium (Cr)-Total (mg/L)	0.00012			
	Cobalt (Co)-Total (mg/L)	<0.00010			
	Copper (Cu)-Total (mg/L)	<0.00050			
	Iron (Fe)-Total (mg/L)	0.093			
	Lead (Pb)-Total (mg/L)	0.000141			
	Lithium (Li)-Total (mg/L)	0.00462			
	Magnesium (Mg)-Total (mg/L)	7.02			
	Manganese (Mn)-Total (mg/L)	0.0261			
	Molybdenum (Mo)-Total (mg/L)	0.000644			

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ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1392267-1	L1392267-2	L1392267-3	L1392267-4	L1392267-5
		Description	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
		Sampled Date	14-NOV-13	14-NOV-13	14-NOV-13	14-NOV-13	14-NOV-13
		Sampled Time	09:45	09:20	09:00	08:30	10:00
		Client ID	NF2	X2	X3A	X10	F1 (FIELD BLANK)
Grouping	Analyte						
WATER							
Total Metals	Nickel (Ni)-Total (mg/L)		0.00356	0.00266	0.00210	0.00175	<0.00050
	Phosphorus (P)-Total (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)		0.799	0.816	0.985	0.939	<0.050
	Selenium (Se)-Total (mg/L)		0.00033	0.00035	0.00029	0.00033	<0.00010
	Silicon (Si)-Total (mg/L)		6.08	6.03	5.78	5.67	<0.050
	Silver (Ag)-Total (mg/L)		<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)		2.59	2.69	2.58	2.48	<0.050
	Strontium (Sr)-Total (mg/L)		0.146	0.150	0.181	0.176	<0.00020
	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)		0.00165	0.00166	0.00183	0.00188	<0.000010
	Vanadium (V)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)		0.390	0.286	0.489	0.178	<0.0030
	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)		0.0053	0.0037	0.0037	0.0023	<0.0010
	Antimony (Sb)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)		0.00040	0.00034	0.00027	0.00022	<0.00010
	Barium (Ba)-Dissolved (mg/L)		0.0621	0.0600	0.0589	0.0603	<0.000050
	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)		0.000212	0.000185	0.000113	0.000079	<0.000010
	Calcium (Ca)-Dissolved (mg/L)		34.5	35.6	38.2	38.7	<0.020
	Chromium (Cr)-Dissolved (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Cobalt (Co)-Dissolved (mg/L)		0.00175	0.00143	0.00085	0.00059	<0.00010
	Copper (Cu)-Dissolved (mg/L)		0.00037	0.00038	0.00036	0.00034	<0.00020
	Iron (Fe)-Dissolved (mg/L)		0.115	0.052	2.97	0.172	<0.010
	Lead (Pb)-Dissolved (mg/L)		0.000229	0.000216	0.000136	0.000109	<0.000050
	Lithium (Li)-Dissolved (mg/L)		0.00512	0.00560	0.00414	0.00396	<0.00050
	Magnesium (Mg)-Dissolved (mg/L)		7.83	8.20	8.26	8.62	<0.0050
	Manganese (Mn)-Dissolved (mg/L)		0.129	0.128	0.152	0.113	<0.000050
	Molybdenum (Mo)-Dissolved (mg/L)		0.000637	0.000619	0.000473	0.000511	<0.000050
	Nickel (Ni)-Dissolved (mg/L)		0.00299	0.00269	0.00180	0.00169	<0.00050
	Phosphorus (P)-Dissolved (mg/L)		<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)		0.795	0.827	0.931	0.917	<0.050

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID	L1392267-6 Surface Water 14-NOV-13 08:06 X14	L1392267-7 Surface Water 14-NOV-13 09:00 X3A-R	L1392267-8 Surface Water 14-NOV-13 12:05 NF1-F	L1392267-9 Surface Water 14-NOV-13 12:30 R8	L1392267-10 Surface Water 14-NOV-13 11:50 R9	
Grouping	Analyte					
WATER						
Total Metals	Nickel (Ni)-Total (mg/L)	0.0107	0.00198	0.00063	<0.00050	<0.00050
	Phosphorus (P)-Total (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Total (mg/L)	1.92	0.955	0.834	0.684	0.740
	Selenium (Se)-Total (mg/L)	0.00029	0.00029	0.00036	0.00034	0.00034
	Silicon (Si)-Total (mg/L)	6.12	5.66	6.16	6.15	6.15
	Silver (Ag)-Total (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Total (mg/L)	7.07	2.48	2.52	2.35	2.48
	Strontium (Sr)-Total (mg/L)	0.386	0.177	0.148	0.126	0.140
	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)	0.00250	0.00184	0.00176	0.00151	0.00176
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Total (mg/L)	0.158	0.433	0.0255	<0.0030	<0.0030
	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)	0.0041	0.0030	0.0041	0.0036	0.0034
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Arsenic (As)-Dissolved (mg/L)	0.00021	0.00029	0.00053	0.00049	0.00044
	Barium (Ba)-Dissolved (mg/L)	0.0543	0.0596	0.0587	0.0549	0.0578
	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)	0.000088	0.000114	0.000012	<0.000010	<0.000010
	Calcium (Ca)-Dissolved (mg/L)	121	37.2	34.5	29.3	33.1
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	<0.00010	0.00027	<0.00010
	Cobalt (Co)-Dissolved (mg/L)	0.0144	0.00090	0.00012	<0.00010	<0.00010
	Copper (Cu)-Dissolved (mg/L)	0.00026	0.00033	0.00041	0.00040	0.00027
	Iron (Fe)-Dissolved (mg/L)	2.09	5.55	0.084	0.062	0.045
	Lead (Pb)-Dissolved (mg/L)	<0.000050	0.000118	0.000167	<0.000050	<0.000050
	Lithium (Li)-Dissolved (mg/L)	0.00651	0.00394	0.00473	0.00422	0.00457
	Magnesium (Mg)-Dissolved (mg/L)	27.3	8.27	6.92	5.61	6.89
	Manganese (Mn)-Dissolved (mg/L)	7.98	0.201	0.0527	0.0213	0.0226
	Molybdenum (Mo)-Dissolved (mg/L)	0.000623	0.000491	0.000656	0.000623	0.000618
	Nickel (Ni)-Dissolved (mg/L)	0.0104	0.00182	0.00053	<0.00050	<0.00050
	Phosphorus (P)-Dissolved (mg/L)	<0.30	<0.30	<0.30	<0.30	<0.30
	Potassium (K)-Dissolved (mg/L)	1.90	0.935	0.811	0.662	0.743

* 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				
	L1392267-11 Surface Water 14-NOV-13 11:30 R10				
Grouping	Analyte				
WATER					
Total Metals	Nickel (Ni)-Total (mg/L)	<0.00050			
	Phosphorus (P)-Total (mg/L)	<0.30			
	Potassium (K)-Total (mg/L)	0.760			
	Selenium (Se)-Total (mg/L)	0.00035			
	Silicon (Si)-Total (mg/L)	6.05			
	Silver (Ag)-Total (mg/L)	<0.000010			
	Sodium (Na)-Total (mg/L)	2.47			
	Strontium (Sr)-Total (mg/L)	0.144			
	Thallium (Tl)-Total (mg/L)	<0.000010			
	Tin (Sn)-Total (mg/L)	<0.00010			
	Titanium (Ti)-Total (mg/L)	<0.010			
	Uranium (U)-Total (mg/L)	0.00172			
	Vanadium (V)-Total (mg/L)	<0.0010			
	Zinc (Zn)-Total (mg/L)	0.0091			
	Zirconium (Zr)-Total (mg/L)	<0.00080			
Dissolved Metals	Dissolved Metals Filtration Location	FIELD			
	Aluminum (Al)-Dissolved (mg/L)	0.0044			
	Antimony (Sb)-Dissolved (mg/L)	<0.00010			
	Arsenic (As)-Dissolved (mg/L)	0.00048			
	Barium (Ba)-Dissolved (mg/L)	0.0567			
	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)	0.000026			
	Calcium (Ca)-Dissolved (mg/L)	33.3			
	Chromium (Cr)-Dissolved (mg/L)	<0.00010			
	Cobalt (Co)-Dissolved (mg/L)	<0.00010			
	Copper (Cu)-Dissolved (mg/L)	0.00035			
	Iron (Fe)-Dissolved (mg/L)	0.047			
	Lead (Pb)-Dissolved (mg/L)	0.000058			
	Lithium (Li)-Dissolved (mg/L)	0.00494			
	Magnesium (Mg)-Dissolved (mg/L)	7.01			
	Manganese (Mn)-Dissolved (mg/L)	0.0248			
	Molybdenum (Mo)-Dissolved (mg/L)	0.000615			
	Nickel (Ni)-Dissolved (mg/L)	<0.00050			
	Phosphorus (P)-Dissolved (mg/L)	<0.30			
	Potassium (K)-Dissolved (mg/L)	0.762			

* 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	L1392267-1 Surface Water 14-NOV-13 09:45 NF2	L1392267-2 Surface Water 14-NOV-13 09:20 X2	L1392267-3 Surface Water 14-NOV-13 09:00 X3A	L1392267-4 Surface Water 14-NOV-13 08:30 X10	L1392267-5 Surface Water 14-NOV-13 10:00 F1 (FIELD BLANK)
Grouping	Analyte					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00037	0.00036	0.00033	0.00035	<0.00010
	Silicon (Si)-Dissolved (mg/L)	6.06	5.97	5.55	5.50	<0.050
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
	Sodium (Na)-Dissolved (mg/L)	2.60	2.66	2.50	2.41	<0.050
	Strontium (Sr)-Dissolved (mg/L)	0.145	0.147	0.173	0.167	<0.00020
	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)	0.00164	0.00166	0.00180	0.00181	<0.000010
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Zinc (Zn)-Dissolved (mg/L)	0.365	0.307	0.313	0.183	<0.0010
	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	Description	Sampled Date	Sampled Time	Client ID
	L1392267-6	Surface Water	14-NOV-13	08:06	X14
	L1392267-7	Surface Water	14-NOV-13	09:00	X3A-R
	L1392267-8	Surface Water	14-NOV-13	12:05	NF1-F
	L1392267-9	Surface Water	14-NOV-13	12:30	R8
	L1392267-10	Surface Water	14-NOV-13	11:50	R9
Grouping	Analyte				
WATER					
Dissolved Metals					
Selenium (Se)-Dissolved (mg/L)	0.00030	0.00030	0.00040	0.00037	0.00039
Silicon (Si)-Dissolved (mg/L)	6.10	5.67	6.02	5.96	6.06
Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Sodium (Na)-Dissolved (mg/L)	7.28	2.43	2.41	2.46	2.40
Strontium (Sr)-Dissolved (mg/L)	0.383	0.168	0.140	0.121	0.139
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)	0.00252	0.00179	0.00171	0.00145	0.00168
Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Dissolved (mg/L)	0.160	0.394	0.0158	0.0017	<0.0010
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 Description Sampled Date Sampled Time Client ID				
	L1392267-11 Surface Water 14-NOV-13 11:30 R10				
Grouping	Analyte				
WATER					
Dissolved Metals	Selenium (Se)-Dissolved (mg/L) Silicon (Si)-Dissolved (mg/L) Silver (Ag)-Dissolved (mg/L) Sodium (Na)-Dissolved (mg/L) Strontium (Sr)-Dissolved (mg/L) Thallium (Tl)-Dissolved (mg/L) Tin (Sn)-Dissolved (mg/L) Titanium (Ti)-Dissolved (mg/L) Uranium (U)-Dissolved (mg/L) Vanadium (V)-Dissolved (mg/L) Zinc (Zn)-Dissolved (mg/L) Zirconium (Zr)-Dissolved (mg/L)	0.00042 6.13 <0.000010 2.54 0.136 <0.000010 <0.00010 <0.010 0.00167 <0.0010 0.0085 <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	Antimony (Sb)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Duplicate	Beryllium (Be)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Duplicate	Bismuth (Bi)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Duplicate	Phosphorus (P)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Duplicate	Silver (Ag)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Duplicate	Thallium (Tl)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Duplicate	Tin (Sn)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Duplicate	Titanium (Ti)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Duplicate	Vanadium (V)-Total	DLA	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Ammonia, Total (as N)	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sulfate (SO4)	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Phosphorus (P)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Dissolved	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1392267-1, -10, -11, -2, -3, -4, -5, -6, -7, -8, -9
Matrix Spike	Aluminum (Al)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Cadmium (Cd)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Calcium (Ca)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Copper (Cu)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Magnesium (Mg)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Manganese (Mn)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Sodium (Na)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Strontium (Sr)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9
Matrix Spike	Zinc (Zn)-Total	MS-B	L1392267-1, -10, -11, -2, -3, -4, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLA	Detection Limit adjusted for required dilution
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-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

Reference Information

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)

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 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-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

Reference Information

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.



Report To: _____ Report Format / Distribution: Standard Other PDF Excel Digital Fax

Company: EDI
 Contact: Meighan Kearns
 Address: 2195 - 2nd Avenue
 Whitehorse, YT Y1A 3T8
 Email 1: mkearns@edynamics.com
 Email 2: Adrienne.Turcotte@gov.yk.ca
 Email 3: Patricia.Randell@gov.yk.ca

Phone: 867-393-4882 Fax: _____
 Invoice To: Same as Report? Yes No
 Hardcopy of Invoice with Report? Yes No
 Client / Project Information: Job #: 13-Y-0452
 PO / AFE: _____
 LSD: _____

Company: _____
 Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 Quote #: Q38556
 Lab/Work Order # (lab use only): _____

Sample #	Sample Identification (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	ALS Contact:	Sampler:	Analysis Requested (Push for routine analysis subject to availability)	Number of Containers
NEQ		14-Nov-13	09:45	Surface Water			<input checked="" type="checkbox"/> ALK-COL-VA,P-T-COL-VA <input checked="" type="checkbox"/> ANIONS-ALL-IC-WR <input checked="" type="checkbox"/> CARBONS-DOC-VA <input checked="" type="checkbox"/> CARBONS-TOC-VA,NH3-F- <input checked="" type="checkbox"/> EC-MAN-WR,PH-MAN-WR <input checked="" type="checkbox"/> MET-D-CCMS-VA,ZR-D-MS- <input checked="" type="checkbox"/> MET-T-CCMS-VA,ZR-T-MS- <input checked="" type="checkbox"/> IONBALANCE-VA <input checked="" type="checkbox"/> TDS-CALC-VA <input checked="" type="checkbox"/> TSS-LOW-WR <input checked="" type="checkbox"/> HARDNESS-CALC-VA	5
X2			09:20					5
X3A			09:00					5
X10			08:30					5
F1 (field blank)			10:00					5
X14			08:06					5
RA (replicates)			09:00					5

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

Use Faro Equis Format to report

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

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

SHIPMENT RELIEF / CLIENT USE (lab use only): _____ SHIPMENT RECEPTION (lab use only): _____
 Date (dd-mmm-yy): _____ Time (hh:mm): _____ Received by: _____ Date: _____ Time: _____ Temperature: _____
 Released by: _____ Date: _____ Time: _____ Verified by: _____ Date: _____ Time: _____
 Observations: Yes / No? _____ If Yes add SIF



L1392267-COFC



ALS Environmental

Chain of Custody / Analytical Request Form
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COC #

Page 1 of 1

Report To					Report Format / Distribution	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other		Service Requested (Rush for routine analysis subject to availability)	<input type="checkbox"/> Regular (Standard Turnaround Times - Business Days) <input type="checkbox"/> Priority (2-4 Business Days) - 50% Surcharge - Contact ALS to Confirm TAT <input checked="" type="checkbox"/> Emergency (1-2 Bus. Days) - 100% Surcharge - Contact ALS to Confirm TAT <input type="checkbox"/> Same Day or Weekend Emergency - Contact ALS to Confirm TAT		
Company:	EDI					<input checked="" type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax					
Contact:	Meighan Kearns					<input checked="" type="checkbox"/> PDF <input type="checkbox"/> Excel <input type="checkbox"/> Digital <input type="checkbox"/> Fax					
Address:	2195 - 2nd Avenue					Email 1: mkearns@edynamics.com					
	Whitehorse, YT Y1A 3T8					Email 2: Adrienne.Turcotte@gov.yk.ca					
Phone:	867-393-4882					Email 3: Patricia.Randell@gov.yk.ca					
Invoice To	Same as Report ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Client / Project Information	Job #: 13-Y-0452			Please indicate below Filtered, Preserved or both (F, P, F/P)		
Hardcopy of Invoice with Report?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					PO / A/E:					
Company:						LSD:					
Contact:											
Address:											
Phone:						Quote #:		Q38556			
	Lab Work Order #				ALS	Sampler:					
	(lab use only)				Contact:						
Sample #	Sample Identification (This description will appear on the report)			Date (dd-mm-yy)	Time (hh:mm)	Sample Type	Analysis Request				
	NE1			14-Nov-13	12:05	Surface Water	ALK-COL-VA,P-T-COL-VA	X			5
	R8			14-Nov-13	12:30		ANIONS-ALL-IC-WR	X			5
	R9			14-Nov-13	11:50		CARBONS-DOC-VA	X			5
	RIO			14-Nov-13	11:30		CARBONS-TOC-VA,NH3-F-	X			5
							EC-MAN-WR,PH-MAN-WR	X			
							MET-D-CCMS-VA,ZR-D-MS-	X			
							MET-T-CCMS-VA,ZR-T-MS-	X			
							IONBALANCE-VA	X			
							TDS-CALC-VA	X			
							TSS-LOW-WR	X			
							HARDNESS-CALC-VA	X			

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

Number of Containers											



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 (lab use only)	Date (dd-mm-yy)	Time (hh-mm)	Received by:	Date:	Time:	Temperature: °C	SHIPMENT VERIFICATION (lab use only)	Verified by:	Date:	Time:	Observations: Yes / No ? If Yes add SIF
---------------------------------	-----------------	--------------	--------------	-------	-------	-----------------	--------------------------------------	--------------	-------	-------	--