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July 30, 2011

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Delivered by email.

RE: Water Licenses NWB1JER0410 Monthly Report- June 2011

Following is the monthly report for June 2011 as required under the Water License 2AM-JER0410. Results of water monitoring as proposed in section 5.0 of Appendix C (General Monitoring Plan) of the Care and Maintenance Plan submitted to the Water Board in January 2011 are included below.

On June 10th, 11th and 12th Ian Rumbolt, Water Resource Officer, Aboriginal Affairs and Northern Development, was on site conducting inspections. Chris Morton, Site Manager and myself accompanied him during the inspection of the Jericho Mine Site.

JER-SWQ-01 (previously JER-SW1)/

The results from JER-SWQ-01, Waste Water Treatment effluent are below. Water discharged from the Waste Water Treatment plant (WWTP) at station JER-SWF-04 between the dates of June 12 and 30th to the Process Kimberlite Containment Area (PKCA) was 56m³. This data has been taken from the now functional totalizer. Discharge from the 1st to 11th has been calculated as a daily average of that number and is 32m³. Total discharge from the WWTP to the PKCA in June was 88m³.

ALS		Sample ID	SWQ-01- Influent	SWQ-01- Effluent	SWQ-1- Effluent	SWQ-1- Influent	SWQ-01- Effluent
7/31/2011		ALS ID	L1016946-2	L1016946-1	L1020331-1	L1024047-1	L1024047-2
L1016946		Date Sampled	6/13/2011	6/13/2011	6/20/2011	6/27/2011	6/27/2011
Analyte	Units	LOR	Water	Water	Water	Water	Water
Total Suspended Solids	mg/L	3	343	<3.0	<3.0	335	<3.0
Total Dissolved Solids	mg/L	5	462	443	421	328	361
Temperature	Degree C	1	25	25	25	25	25
Turbidity	NTU	0.1	127	3.8	4	106	2.42
Acidity (as CaCO3)	mg/L	5	35.3	7.6	11.4	45.5	6.5
Alkalinity, Total (as CaCO3)	mg/L	5	289	11.3	15.5	177	40
Ammonia (as N)	mg/L	0.005	46.8	0.86	1.01	24.3	0.75
Bicarbonate (HCO3)	mg/L	5	352	13.8	18.9	216	48.7
Carbonate (CO3)	mg/L	5	<5.0	<5.0	<5.0	<5.0	<5.0
Chloride (Cl)	mg/L	0.5	53.6	61	57.4	43.7	51.9
Conductivity (EC)	uS/cm	0.2	855	633	618	619	514
Fluoride (F)	mg/L	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
Hardness (as CaCO3)	mg/L	n/a	25.5	41.8	42.4	32.5	33
Hydroxide (OH)	mg/L	5	<5.0	<5.0	<5.0	<5.0	<5.0
Ion Balance	%	n/a	95	87.6	96.1	102	91.1
Nitrate and Nitrite (as N)	mg/L	0.06	0.065	31.6	30.2	<0.0060	19.9
Nitrate (as N)	mg/L	0.063	<0.063	31.6	30.2	<0.0060	19.8
Nitrite (as N)	mg/L	0.02	0.044	<0.50	0.07	0.0054	0.117
Total Kjeldahl Nitrogen	mg/L	0.2	67.3	4.16	5.43	57.5	4.51
pH	pH	0.1	7.68	6.8	6.93	7.05	7.41
Orthophosphate-Dissolved (as P)	mg/L	0.001	4.96	2.97	3.7	3.06	3.38
Phosphorus (P)-Total Dissolved	mg/L	0.001	6.86	3.57	3.54	6.52	3.85
Phosphorus (P)-Total	mg/L	0.001	8.15	3.63	3.94	8.5	4.29
TDS (Calculated)	mg/L	n/a	334	346	347	225	292
Sulfate (SO4)	mg/L	0.05	13.9	36.7 *	37	0.071	33.7
Total Inorganic Carbon	mg/L	1			5.6	22.5	9.1
Total Organic Carbon	mg/L	1			18.1	169	20.8
Fecal Coliforms	CFU/100mL	1	120000	4000	11600	22000000	200
Calcium (Ca)-Dissolved	mg/L	0.5	6.25	10.9 *	10.6	8.19	8.08
Magnesium (Mg)-Dissolved	mg/L	0.1	2.41	3.54 *	3.88	2.93	3.12
Potassium (K)-Dissolved	mg/L	0.1	16.5	19.0 *	21.1	16	18.9
Sodium (Na)-Dissolved	mg/L	1	67.2	68.2 *	73.8	47.4	64.3
Biochemical Oxygen Demand	mg/L	2	425	4.8	5.9	257	<2.0
Oil and Grease	mg/L	1	26.6	<1.0	<1.0	29	<1.0

Sewage sludge was removed from the WWTP in June. Approximately 11m³ was pumped out and deposited in the waste rock pile at 12W 0478298 7319368.

JER-SWF-01 (previously JER -WQ1)

The main station pump at Carat Lake Causeway is not operational at this time. The water taken for domestic purposed at this time is taken from Carat Lake by pump and transported by water truck to tanks within the accommodation unit. Volume drawn is calculated manually. Water drawn from Carat Lake in June was 97m³. The results from sampling at this location are below.

ALS		Sample ID	CARAT INTAKE- SWF-01
7/31/2011		ALS ID	L1016952-1
L1016952		Date Sampled	6/11/2011 12:00:00 AM
Analyte	Units	LOR	Water
Hardness (as CaCO ₃)	mg/L	1.3	6.2
Total Suspended Solids	mg/L	3	<3.0
Total Dissolved Solids	mg/L	5	15
Temperature	Degree C	1	25
Turbidity	NTU	0.1	12.8
Acidity (as CaCO ₃)	mg/L	5	<5.0
Alkalinity, Total (as CaCO ₃)	mg/L	5	6.7
Ammonia (as N)	mg/L	0.005	<0.0050
Bicarbonate (HCO ₃)	mg/L	5	8.2
Carbonate (CO ₃)	mg/L	5	<5.0
Chloride (Cl)	mg/L	0.5	<0.50
Conductivity (EC)	uS/cm	0.2	13.9
Fluoride (F)	mg/L	0.05	<0.050
Hardness (as CaCO ₃)	mg/L	n/a	6.2
Hydroxide (OH)	mg/L	5	<5.0
Ion Balance	%	n/a	Low EC
Nitrate and Nitrite (as N)	mg/L	0.006	0.0472
Nitrate (as N)	mg/L	0.006	0.0472
Nitrite (as N)	mg/L	0.002	<0.0020
pH	pH	0.1	7.13
Orthophosphate-Dissolved (as P)	mg/L	0.001	<0.0010
Phosphorus (P)-Total Dissolved	mg/L	0.001	<0.0010
Phosphorus (P)-Total	mg/L	0.001	0.0064
TDS (Calculated)	mg/L	n/a	7.1
Sulfate (SO ₄)	mg/L	0.05	0.431
Total Organic Carbon	mg/L	1	2.1
Calcium (Ca)-Total	mg/L	0.05	1.84
Iron (Fe)-Total	mg/L	0.01	0.594
Magnesium (Mg)-Total	mg/L	0.05	0.848
Mercury (Hg)-Total	mg/L	0.00005	<0.000050
Phosphorus (P)-Total	mg/L	0.05	<0.050

Potassium (K)-Total	mg/L	0.2	0.35
Silicon (Si)-Total	mg/L	0.05	1.43
Sodium (Na)-Total	mg/L	0.2	0.47
Aluminum (Al)-Total	mg/L	0.0002	0.284
Antimony (Sb)-Total	mg/L	0.000005	0.0000653
Arsenic (As)-Total	mg/L	0.00002	0.000129
Barium (Ba)-Total	mg/L	0.00002	0.0037
Beryllium (Be)-Total	mg/L	0.000002	0.0000153
Bismuth (Bi)-Total	mg/L	0.000001	0.0000041
Boron (B)-Total	mg/L	0.005	<0.0050
Cadmium (Cd)-Total	mg/L	0.000005	<0.0000050
Cesium (Cs)-Total	mg/L	0.000005	0.0000518
Chromium (Cr)-Total	mg/L	0.00005	0.000373
Cobalt (Co)-Total	mg/L	0.000005	0.000269
Copper (Cu)-Total	mg/L	0.00005	0.00548
Gallium (Ga)-Total	mg/L	0.00005	0.00016
Lead (Pb)-Total	mg/L	0.000005	0.000718
Lithium (Li)-Total	mg/L	0.0002	0.00078
Manganese (Mn)-Total	mg/L	0.000005	0.0104
Molybdenum (Mo)-Total	mg/L	0.00001	0.00022
Nickel (Ni)-Total	mg/L	0.00005	0.0012
Rhenium (Re)-Total	mg/L	0.000005	<0.0000050
Rubidium (Rb)-Total	mg/L	0.000005	0.000819
Selenium (Se)-Total	mg/L	0.00004	0.000041
Silver (Ag)-Total	mg/L	0.000005	<0.0000050
Strontium (Sr)-Total	mg/L	0.00001	0.00538
Tellurium (Te)-Total	mg/L	0.00001	<0.000010
Thallium (Tl)-Total	mg/L	0.000001	0.0000037
Thorium (Th)-Total	mg/L	0.000005	0.0000672
Tin (Sn)-Total	mg/L	0.00001	0.000014
Titanium (Ti)-Total	mg/L	0.00005	0.00889
Tungsten (W)-Total	mg/L	0.00001	0.000012
Uranium (U)-Total	mg/L	0.000001	0.00305
Vanadium (V)-Total	mg/L	0.00001	0.000757
Yttrium (Y)-Total	mg/L	0.000005	0.000404
Zinc (Zn)-Total	mg/L	0.0001	0.0016
Zirconium (Zr)-Total	mg/L	0.00001	0.000174
Aluminum (Al)-Dissolved	mg/L	0.0002	0.0131
Antimony (Sb)-Dissolved	mg/L	0.000005	0.0000573
Arsenic (As)-Dissolved	mg/L	0.00002	0.000079
Barium (Ba)-Dissolved	mg/L	0.00002	0.00162
Beryllium (Be)-Dissolved	mg/L	0.000002	<0.0000020
Bismuth (Bi)-Dissolved	mg/L	0.000001	0.0000016
Boron (B)-Dissolved	mg/L	0.005	0.0103
Cadmium (Cd)-Dissolved	mg/L	0.000005	<0.0000050
Calcium (Ca)-Dissolved	mg/L	0.05	1.73
Cesium (Cs)-Dissolved	mg/L	0.000005	<0.0000050
Chromium (Cr)-Dissolved	mg/L	0.00005	0.000114
Cobalt (Co)-Dissolved	mg/L	0.000005	0.0000232
Copper (Cu)-Dissolved	mg/L	0.00005	0.00321
Gallium (Ga)-Dissolved	mg/L	0.00005	<0.0000050
Iron (Fe)-Dissolved	mg/L	0.01	<0.010
Lead (Pb)-Dissolved	mg/L	0.000005	<0.000030
Lithium (Li)-Dissolved	mg/L	0.0002	0.00031
Magnesium (Mg)-Dissolved	mg/L	0.05	0.549

Manganese (Mn)-Dissolved	mg/L	0.000005	0.00592
Mercury (Hg)-Dissolved	mg/L	0.00005	<0.000050
Molybdenum (Mo)-Dissolved	mg/L	0.00001	0.000258
Nickel (Ni)-Dissolved	mg/L	0.00005	0.00056
Phosphorus (P)-Dissolved	mg/L	0.05	<0.050
Potassium (K)-Dissolved	mg/L	0.1	0.28
Rhenium (Re)-Dissolved	mg/L	0.000005	<0.0000050
Rubidium (Rb)-Dissolved	mg/L	0.000005	0.000406
Selenium (Se)-Dissolved	mg/L	0.00004	<0.000040
Silicon (Si)-Dissolved	mg/L	0.05	0.165
Silver (Ag)-Dissolved	mg/L	0.000005	<0.0000050
Sodium (Na)-Dissolved	mg/L	0.2	0.36
Strontium (Sr)-Dissolved	mg/L	0.00001	0.00474
Tellurium (Te)-Dissolved	mg/L	0.00001	<0.000010
Thallium (Tl)-Dissolved	mg/L	0.000001	<0.0000010
Thorium (Th)-Dissolved	mg/L	0.000005	0.0000185
Tin (Sn)-Dissolved	mg/L	0.00001	<0.000020
Titanium (Ti)-Dissolved	mg/L	0.00005	0.000155
Tungsten (W)-Dissolved	mg/L	0.00001	0.000013
Uranium (U)-Dissolved	mg/L	0.000001	0.00195
Vanadium (V)-Dissolved	mg/L	0.00001	0.000119
Yttrium (Y)-Dissolved	mg/L	0.000005	0.0000333
Zinc (Zn)-Dissolved	mg/L	0.0001	<0.0040
Zirconium (Zr)-Dissolved	mg/L	0.00001	<0.0015
Oil and Grease	mg/L	1	1.7
Benzene	mg/L	0.0005	<0.00050
Ethylbenzene	mg/L	0.0005	<0.00050
Toluene	mg/L	0.0005	<0.00050
o-Xylene	mg/L	0.0005	<0.00050
m+p-Xylene	mg/L	0.0005	<0.00050
Xylenes	mg/L	0.00071	<0.00071
F1(C6-C10)	mg/L	0.1	<0.10
F1-BTEX	mg/L	0.1	<0.10

Sampling was conducted in the open pit in June. The analytical results are included below;

ALS		Sample ID	PIT	FIELD BLANK	TRAVEL BLANK
7/31/2011		ALS ID	L1016952-4	L1016952-7	L1016952-8
L1016952		Date Sampled	06/11/2011	06/12/2011	06/11/2011
Analyte	Units	LOR	Water	Water	Water
Hardness (as CaCO3)	mg/L	1.3	-	<1.3	<1.3
Total Suspended Solids	mg/L	3	3	<3.0	<3.0
Total Dissolved Solids	mg/L	5	74	<5.0	<5.0
Temperature	Degree C	1	25	25	25
Turbidity	NTU	0.1	17	<0.10	0.17
Acidity (as CaCO3)	mg/L	5	<5.0	<5.0	<5.0
Alkalinity, Total (as CaCO3)	mg/L	5	26.6	<5.0	<5.0
Ammonia (as N)	mg/L	0.005	0.0525	<0.0050	<0.0050
Bicarbonate (HCO3)	mg/L	5	32.5	<5.0	<5.0
Carbonate (CO3)	mg/L	5	<5.0	<5.0	<5.0

Chloride (Cl)	mg/L	0.5	3.01	<0.50	<0.50
Conductivity (EC)	uS/cm	0.2	98.1	0.52	0.56
Fluoride (F)	mg/L	0.05	0.058	<0.050	<0.050
Hardness (as CaCO3)	mg/L	n/a	31.8	<1.0	<1.0
Hydroxide (OH)	mg/L	5	<5.0	<5.0	<5.0
Ion Balance	%	n/a	Low EC	Low TDS	Low TDS
Nitrate and Nitrite (as N)	mg/L	0.006	2.95	<0.0060	<0.0060
Nitrate (as N)	mg/L	0.006	2.92	<0.0060	<0.0060
Nitrite (as N)	mg/L	0.002	0.0249	<0.0020	<0.0020
pH	pH	0.1	7.71	5.86	5.58
Orthophosphate-Dissolved (as P)	mg/L	0.001	<0.0010	<0.0010	<0.0010
Phosphorus (P)-Total Dissolved	mg/L	0.001	0.0026	<0.0010	<0.0010
Phosphorus (P)-Total	mg/L	0.001	0.0132	<0.0010	<0.0010
TDS (Calculated)	mg/L	n/a	50.9	<1.0	<1.0
Sulfate (SO4)	mg/L	0.05	3.61	<0.050	<0.050
Total Organic Carbon	mg/L	1	2.5	<1.0	<1.0
Calcium (Ca)-Total	mg/L	0.05	8.44	<0.050	<0.050
Iron (Fe)-Total	mg/L	0.01	0.561	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	0.05	3.95	<0.050	<0.050
Mercury (Hg)-Total	mg/L	0.00005	<0.000050	<0.000050	<0.000050
Phosphorus (P)-Total	mg/L	0.05	<0.050	<0.050	<0.050
Potassium (K)-Total	mg/L	0.2	2.11	<0.20	<0.20
Silicon (Si)-Total	mg/L	0.05	3.35	<0.050	<0.050
Sodium (Na)-Total	mg/L	0.2	2.8	<0.20	<0.20
Aluminum (Al)-Total	mg/L	0.0002	0.467	<0.00020	0.00032
Antimony (Sb)-Total	mg/L	0.000005	0.000145	<0.0000050	<0.0000050
Arsenic (As)-Total	mg/L	0.00002	0.000435	<0.000020	<0.000020
Barium (Ba)-Total	mg/L	0.00002	0.0237	<0.000020	<0.000020
Beryllium (Be)-Total	mg/L	0.000002	0.0000389	0.0000026	0.0000037
Bismuth (Bi)-Total	mg/L	0.000001	0.0000112	<0.0000010	<0.0000010
Boron (B)-Total	mg/L	0.005	0.0174	<0.0050	<0.0050
Cadmium (Cd)-Total	mg/L	0.000005	<0.0000050	<0.0000050	<0.0000050
Cesium (Cs)-Total	mg/L	0.000005	0.000116	<0.0000050	<0.0000050
Chromium (Cr)-Total	mg/L	0.00005	0.000914	<0.000050	<0.000050
Cobalt (Co)-Total	mg/L	0.000005	0.000323	<0.0000050	<0.0000050
Copper (Cu)-Total	mg/L	0.00005	0.00332	0.000176	0.000227
Gallium (Ga)-Total	mg/L	0.00005	0.000197	<0.000050	<0.000050
Lead (Pb)-Total	mg/L	0.000005	0.00146	<0.0000050	0.0000086
Lithium (Li)-Total	mg/L	0.0002	0.00245	<0.00020	<0.00020
Manganese (Mn)-Total	mg/L	0.000005	0.0211	0.0000306	0.0000463
Molybdenum (Mo)-Total	mg/L	0.00001	0.00256	<0.000010	<0.000010
Nickel (Ni)-Total	mg/L	0.00005	0.00323	<0.000050	<0.000050
Rhenium (Re)-Total	mg/L	0.000005	<0.0000050	<0.0000050	<0.0000050
Rubidium (Rb)-Total	mg/L	0.000005	0.00422	<0.0000050	<0.0000050
Selenium (Se)-Total	mg/L	0.00004	0.000155	<0.000040	<0.000040
Silver (Ag)-Total	mg/L	0.000005	0.0000061	<0.0000050	<0.0000050
Strontium (Sr)-Total	mg/L	0.00001	0.101	<0.000010	<0.000010
Tellurium (Te)-Total	mg/L	0.00001	<0.000010	<0.000010	<0.000010
Thallium (Tl)-Total	mg/L	0.000001	0.0000097	<0.0000010	<0.0000010
Thorium (Th)-Total	mg/L	0.000005	0.000132	<0.0000050	<0.0000050
Tin (Sn)-Total	mg/L	0.00001	0.000022	<0.000010	<0.000010

Titanium (Ti)-Total	mg/L	0.00005	0.0145	<0.000050	<0.000050
Tungsten (W)-Total	mg/L	0.00001	0.000896	<0.000010	<0.000010
Uranium (U)-Total	mg/L	0.000001	0.0546	<0.0000010	<0.0000010
Vanadium (V)-Total	mg/L	0.00001	0.00121	<0.000010	<0.000010
Yttrium (Y)-Total	mg/L	0.000005	0.000866	<0.0000050	<0.0000050
Zinc (Zn)-Total	mg/L	0.0001	0.00137	0.00118	0.00129
Zirconium (Zr)-Total	mg/L	0.00001	0.00067	<0.000010	<0.000010
Calcium (Ca)-Dissolved	mg/L	0.05	7.41	<0.050	<0.050
Magnesium (Mg)-Dissolved	mg/L	0.05	3.24	<0.050	<0.050
Potassium (K)-Dissolved	mg/L	0.1	1.61	<0.10	<0.10
Sodium (Na)-Dissolved	mg/L	0.2	2.9	<0.20	<0.20

The east sump was sampled in June the results of the analysis are below.

ALS		Sample ID	EAST SUMP (JER-SWQ-07)
7/31/2011		ALS ID	L1020328-1
L1020328		Date Sampled	6/20/2011
Analyte	Units	LOR	Water
Hardness (as CaCO3)	mg/L	1.3	53.8
Total Suspended Solids	mg/L	3	<3.0
Total Dissolved Solids	mg/L	5	123
Temperature	Degree C	1	25
Turbidity	NTU	0.1	1.88
Acidity (as CaCO3)	mg/L	5	<5.0
Alkalinity, Total (as CaCO3)	mg/L	5	44.9
Ammonia (as N)	mg/L	0.005	0.075
Bicarbonate (HCO3)	mg/L	5	54.7
Carbonate (CO3)	mg/L	5	<5.0
Chloride (Cl)	mg/L	0.5	11.1
Conductivity (EC)	uS/cm	0.2	223
Fluoride (F)	mg/L	0.05	0.088
Hardness (as CaCO3)	mg/L	n/a	62.1
Hydroxide (OH)	mg/L	5	<5.0
Ion Balance	%	n/a	98.9
Nitrate and Nitrite (as N)	mg/L	0.006	3.69
Nitrate (as N)	mg/L	0.006	3.67
Nitrite (as N)	mg/L	0.002	0.0233
pH	pH	0.1	7.84
Orthophosphate-Dissolved (as P)	mg/L	0.001	<0.0010
Phosphorus (P)-Total Dissolved	mg/L	0.001	0.0036
Phosphorus (P)-Total	mg/L	0.001	0.0351
TDS (Calculated)	mg/L	n/a	122
Sulfate (SO4)	mg/L	0.05	26.9
Total Inorganic Carbon	mg/L	1	10.9
Total Organic Carbon	mg/L	1	4.7
Mercury (Hg)-Total	mg/L	0.00005	<0.000050
Aluminum (Al)-Total	mg/L	0.0002	0.0513

Antimony (Sb)-Total	mg/L	0.000005	0.00012
Arsenic (As)-Total	mg/L	0.00002	0.00027
Barium (Ba)-Total	mg/L	0.00002	0.033
Beryllium (Be)-Total	mg/L	0.000002	0.0000029
Bismuth (Bi)-Total	mg/L	0.000001	<0.0000010
Boron (B)-Total	mg/L	0.005	0.0276
Cadmium (Cd)-Total	mg/L	0.000005	<0.0000050
Calcium (Ca)-Total	mg/L	0.03	12.9
Cesium (Cs)-Total	mg/L	0.000005	0.0000529
Chromium (Cr)-Total	mg/L	0.00005	0.000449
Cobalt (Co)-Total	mg/L	0.000005	0.000142
Copper (Cu)-Total	mg/L	0.00005	0.00176
Gallium (Ga)-Total	mg/L	0.00005	<0.000050
Iron (Fe)-Total	mg/L	0.01	0.12
Lead (Pb)-Total	mg/L	0.000005	0.000103
Lithium (Li)-Total	mg/L	0.0002	0.00116
Magnesium (Mg)-Total	mg/L	0.03	7.57
Manganese (Mn)-Total	mg/L	0.000005	0.017
Molybdenum (Mo)-Total	mg/L	0.00001	0.00342
Nickel (Ni)-Total	mg/L	0.00005	0.00532
Phosphorus (P)-Total	mg/L	0.05	<0.050
Potassium (K)-Total	mg/L	0.05	6.5
Rhenium (Re)-Total	mg/L	0.000005	0.0000378
Rubidium (Rb)-Total	mg/L	0.000005	0.0146
Selenium (Se)-Total	mg/L	0.00004	0.000103
Silicon (Si)-Total	mg/L	0.05	0.498
Silver (Ag)-Total	mg/L	0.000005	<0.0000050
Sodium (Na)-Total	mg/L	0.2	14.1
Strontium (Sr)-Total	mg/L	0.00001	0.242
Tellurium (Te)-Total	mg/L	0.00001	<0.000010
Thallium (Tl)-Total	mg/L	0.000001	0.000014
Thorium (Th)-Total	mg/L	0.000005	0.0000212
Tin (Sn)-Total	mg/L	0.00001	<0.000010
Titanium (Ti)-Total	mg/L	0.00005	0.00172
Tungsten (W)-Total	mg/L	0.00001	0.000034
Uranium (U)-Total	mg/L	0.000001	0.00716
Vanadium (V)-Total	mg/L	0.00001	0.00022
Yttrium (Y)-Total	mg/L	0.000005	0.0000739
Zinc (Zn)-Total	mg/L	0.0001	0.00091
Zirconium (Zr)-Total	mg/L	0.00001	0.000087
Aluminum (Al)-Dissolved	mg/L	0.0002	0.00706
Antimony (Sb)-Dissolved	mg/L	0.000005	0.000122
Arsenic (As)-Dissolved	mg/L	0.00002	0.000238
Barium (Ba)-Dissolved	mg/L	0.00002	0.0307
Beryllium (Be)-Dissolved	mg/L	0.000002	<0.0000020
Bismuth (Bi)-Dissolved	mg/L	0.000001	<0.0000010
Boron (B)-Dissolved	mg/L	0.005	0.0229
Cadmium (Cd)-Dissolved	mg/L	0.000005	<0.0000050
Calcium (Ca)-Dissolved	mg/L	0.03	12.7
Cesium (Cs)-Dissolved	mg/L	0.000005	0.0000455
Chromium (Cr)-Dissolved	mg/L	0.00005	0.000138
Cobalt (Co)-Dissolved	mg/L	0.000005	0.0000567
Copper (Cu)-Dissolved	mg/L	0.00005	0.00155
Gallium (Ga)-Dissolved	mg/L	0.00005	<0.000050
Iron (Fe)-Dissolved	mg/L	0.01	0.04

Lead (Pb)-Dissolved	mg/L	0.000005	0.0000919
Lithium (Li)-Dissolved	mg/L	0.0002	0.001
Magnesium (Mg)-Dissolved	mg/L	0.03	7.37
Manganese (Mn)-Dissolved	mg/L	0.000005	0.0109
Mercury (Hg)-Dissolved	mg/L	0.00005	<0.000050
Molybdenum (Mo)-Dissolved	mg/L	0.00001	0.00361
Nickel (Ni)-Dissolved	mg/L	0.00005	0.00363
Phosphorus (P)-Dissolved	mg/L	0.05	<0.050
Potassium (K)-Dissolved	mg/L	0.05	6.44
Rhenium (Re)-Dissolved	mg/L	0.000005	0.0000386
Rubidium (Rb)-Dissolved	mg/L	0.000005	0.0143
Selenium (Se)-Dissolved	mg/L	0.00004	0.000099
Silicon (Si)-Dissolved	mg/L	0.05	0.305
Silver (Ag)-Dissolved	mg/L	0.000005	<0.0000050
Sodium (Na)-Dissolved	mg/L	0.2	13.9
Strontium (Sr)-Dissolved	mg/L	0.00001	0.246
Tellurium (Te)-Dissolved	mg/L	0.00001	<0.000010
Thallium (Tl)-Dissolved	mg/L	0.000001	0.0000132
Thorium (Th)-Dissolved	mg/L	0.000005	0.000006
Tin (Sn)-Dissolved	mg/L	0.00001	<0.000010
Titanium (Ti)-Dissolved	mg/L	0.00005	0.000157
Tungsten (W)-Dissolved	mg/L	0.00001	0.000036
Uranium (U)-Dissolved	mg/L	0.000001	0.00681
Vanadium (V)-Dissolved	mg/L	0.00001	0.000125
Yttrium (Y)-Dissolved	mg/L	0.000005	0.0000336
Zinc (Zn)-Dissolved	mg/L	0.0001	0.00192
Zirconium (Zr)-Dissolved	mg/L	0.00001	0.000032

Weekly inspections of the dams and dykes were undertaken during the month of May and temperature readings recorded were sent to a geotechnical engineer.

Records are being kept on wastes for incineration. The total waste incinerated in June 2011 was 990kg.

Should you have any questions regarding the monthly report for June 2011 please contact the undersigned at (250) 362-9530 or michelle@shearminerals.com

Regards,

Michelle Tanguay
Environment Manager