



AGNICO EAGLE

EXPLORATION

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: JUNE 2013

PRESENTED TO THE NUNAVUT WATER BOARD

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This monthly report is delivered under water license 2BB-MEL0914, PART J, items 13.

1. The Licensee shall maintain Monitoring Stations at the following locations:

Table 1: Monitoring stations

Monitoring Program Station Number	Description
MEL-1	Raw water supply intake at Meliadine Lake
MEL-2	Raw water supply intake at Pump Lake
MEL-3	Immediately downstream of old grey water sump prior to effluent entering wetland area, when flow observed
MEL-3a	Immediately downstream of upgraded sump prior to the effluent entering upgraded wetland area, when flow is observed
MEL-4	At a point immediately upstream of the discharge from the wetland area / upgraded wetland area to Meliadine Lake
MEL-5	Point of discharge for the Bermed Fuel Containment Facilities
MEL-6	Point of discharge for the contaminated soil storage
MEL-7	Final effluent discharge from the BIODISK treatment system
MEL-8	Point of discharge or runoff from the Non-Hazardous Waste Landfill

- 2. The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for camp, drilling and other purposes from all sources.**

The consumption of fresh water for the site was 38.2m³/day for the month of June 2013; 18.8m³/day for the drills and 19.4m³/day for the camp. During June, the majority of the drills moved on the East property, so they were under the licence 2BE-MEP0813.

- 3. The Licensee shall provide the GPS co-ordinates of all locations where sources of water are utilized for all purposes. In UTM nad 1983**

- Camp water source: East 541943,0 ; North 6989174,0
- Drilling water sources: East 553660 ; North 6981730
East 554340 ; North 6981245
East 542600 ; North 6986750
East 542810 ; North 6986310
East 539225 ; North 6988620
East 539985 ; North 6987075
East 539805 ; North 6988685

- 4. Licensee shall sample at Monitoring Program Station MEL-3, MEL-3a, MEL-4 and MEL-7, monthly during Sewage treatment, effluent discharge and during periods of flow at the point of entry into Meliadine Lake. Samples shall be analyzed for the following parameters:**

Biochemical Oxygen Demand – BOD₅
Total Suspended Solids
Oil and Grease (and visual)
Fecal Coliforms
pH

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MEL-4

Waterbody	MEL-4
Date Sampled	24/06/2013
GPS Coordinates	542092-6989012
LAB	ALS
Field Measurements	
Water Temperature	5.8
pH	7.81
Conductivity	0.02
Laboratory-Measured	
Fecal Coliforms	<3
Total Coliforms	<3
E. Coli	<3
Total Oil and Grease	<1.0
Ion balance	Low EC
Biochemical Oxygen Demand	<6.0
Ammonia as N	0.012
Mercury (Hg)-Total	<0.000020
Phosphorus (P)-Total	0.024
Phosphorus (P)-Total Reactive	0.004
Total Kjeldahl Nitrogen	<0.20
Total Suspended Solids	<5.0
Phosphorus (P)-Total	0.024
Alkalinity, Total (as CaCO3)	13.9
Bicarbonate (HCO3)	17
Carbonate (CO3)	<0.60
Hydroxide (OH)	<0.34
Calcium (Ca)-Dissolved	5.12
Magnesium (Mg)-Dissolved	0.88
Potassium (K)-Dissolved	0.716
Sodium (Na)-Dissolved	3.7
Chloride	6.81
Conductivity	59
Fluoride	<0.10
Hardness (as CaCO3)	16.8
Nitrate-N	<0.050
Nitrate and Nitrite as N	<0.071
Nitrite-N	<0.050
Sulfate	2.9
TDS (Calculated)	34
Aluminum (Al)-Total	0.0098
Antimony (Sb)-Total	<0.00020
Arsenic (As)-Total	0.00045
Barium (Ba)-Total	0.00656
Beryllium (Be)-Total	<0.00020
Bismuth (Bi)-Total	<0.00020
Boron (B)-Total	<0.010
Cadmium (Cd)-Total	<0.000010
Calcium (Ca)-Total	5.16
Cesium (Cs)-Total	<0.00010
Chromium (Cr)-Total	<0.0010
Cobalt (Co)-Total	<0.00020
Copper (Cu)-Total	0.00085
Iron (Fe)-Total	<0.10
Lead (Pb)-Total	<0.000090
Lithium (Li)-Total	<0.0020
Magnesium (Mg)-Total	0.942
Manganese (Mn)-Total	0.0154
Molybdenum (Mo)-Total	<0.00020
Nickel (Ni)-Total	<0.0020
Phosphorus (P)-Total	<0.10
Potassium (K)-Total	0.726
Rubidium (Rb)-Total	0.00116
Selenium (Se)-Total	<0.0010
Silicon (Si)-Total	0.272
Silver (Ag)-Total	<0.00010
Sodium (Na)-Total	4.09
Strontium (Sr)-Total	0.0243
Tellurium (Te)-Total	<0.00020
Thallium (Tl)-Total	<0.00010
Thorium (Th)-Total	<0.00010
Tin (Sn)-Total	<0.00020
Titanium (Ti)-Total	<0.00050
Tungsten (W)-Total	<0.00010
Uranium (U)-Total	<0.00010
Vanadium (V)-Total	<0.00020
Zinc (Zn)-Total	0.0022
Zirconium (Zr)-Total	<0.00040
Oil & Grease	<1.0
Turbidity	1.19
pH	7.29

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MEL-7

All the parameters respected the licence requirement during June.

Station: STP-OUT (MEL-7)		June			
DATE	Limits	05/06/2013	11/06/2013	18/06/2013	24/06/2013
Ammonia as N (mg/L)		36.0	25.5	26.5	23.2
Biochemical Oxygen Demand (mg/L)	80	9.0	6.9	6.9	<6.0
Heterotrophic Plate Count (AAHB) (CFU/ml)			530	>3000	>3000
Nitrate-N (mg/L)		0.1	5.37	3.2	10.7
Nitrate and Nitrite as N (mg/L)		4.84	9.13	5.1	13.70
Nitrite-N (mg/L)		4.7	3.76	1.96	3.0
Oil & Grease-IR) (mg/L)	5	<1.0	2.2	<1.0	<1.0
Phosphorus (P)-Total (mg/L)		10.8	14.7	9.4	11.9
TKN (mg/L)		39.3	29.7	30.4	25.4
Total Suspended Solids (mg/L)	100	10.0	14	14.0	9.0
Transmittance (%T)		37.6	32.1	40.2	36.9
pH (pH units)	6.5-9	7.7	7.35	7.91	7.4
Fecal Coliforms (MPN/100ml)	1000	9.0	<3	23	23
Total Coliforms (MPN/100ml)		43.0	210	93	4,300

5. *The Licensee shall, prior to the release of effluent from the Bermed Fuel Containment Facilities at Monitoring Program Station MEL-5 and the contaminated soil storage at MEL-6 for the purpose of demonstrating compliance, sample for the parameters listed under Part D, item 17.*

➤ No discharge for the month of June.

6. *The Licensee shall obtain representative samples of the water column below any ice where required under part F, item 7. Monitoring shall include but not limited to the following:*

Total Suspended Solids

pH

Electrical Conductivity, and

Total trace Metals as determined by a standard ICP Scan (to include at a minimum, the following elements: Al, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Mo, Ni, Se, Sn, Sr, Tl, Ti, U, V, Zn), and Trace Arsenic and Mercury.

		Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	Pump Lake (A8)	
Parameters	Unit	27/02/2013	02/03/2013	09/03/2013	17/03/2013	23/03/2013	28/03/2013	01/04/2013	07/04/2013	13/04/2013	20/04/2013	27/04/2013	04/05/2013	20/05/2013	24/05/2013	14/06/2013
Chloride	mg/L	91.7	97.3	100	114	106	109	110	104	110.0	113	116.0	123.0	118.0	113.0	9.8
Conductivity	umhos/cm	524	535	539	561	576	589	601	574	595	616	626	660	634	601	73
Hardness (as CaCO3)	mg/L	227	234	215	229	235	247	254	220	230	251	258	283	254	282	31.3
Mercury (Hg)-Total	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	0.000044	<0.000020	<0.000020
Sodium Adsorption Ratio		0.44	0.41	0.41	0.45	0.44	0.44	0.43	0.41	0.43	0.41	0.43	0.46	0.43	0.43	0.15
Sulfate		11.3	12.5	12.5	13.7	12.4	13.6	13.7	11.3	13.1	13.5	14.2	13.1	13.8	13	1.91
TDS (Calculated from EC)	mg/L	341	348	350	365	374	383	391	373	387	400	407	429	412	391	47
Total Suspended Solids	mg/L	<5.0	23	<5.0	<5.0	<5.0	<5.0	5	<5.0	<5.0	<5.0	<5.0	6	<5.0	<5.0	5
pH	pH units	7.17	7.11	7.17	7.11	7.11	7.21	7.26	7.37	7.07	7.02	7.08	6.93	7.29	6.98	7.1
Aluminum (Al)-Total	mg/L	0.0059	0.0919	0.0078	0.0089	0.0077	0.0161	0.0052	0.0069	0.0164	0.0116	0.0253	0.013	0.0228	0.0187	0.0267
Antimony (Sb)-Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00043	<0.00020	<0.00020	<0.00020	0.00021	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.00184	0.00577	0.00163	0.00188	0.00203	0.00183	0.003	0.00167	0.00178	0.0019	0.0127	0.00227	0.0016	0.00184	0.00101
Barium (Ba)-Total	mg/L	0.065	0.0797	0.0711	0.0766	0.0744	0.0753	0.0834	0.0736	0.0786	0.0811	0.0899	0.0922	0.0803	0.0830	0.0100
Beryllium (Be)-Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.011	0.011	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	0.000281	0.000066	0.000262	0.000467	0.000128	0.000158	0.000393	0.000198	0.000504	0.000516	0.000114	0.00018	0.000127	0.000266	0.000011
Calcium (Ca)-Total	mg/L	76	78.7	72	75	78	84	85	72	76	84.9	86	94	86	94	10.1
Cesium (Cs)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0041	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L	<														

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		2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)	2013-BUD (mid)
Parameters	Unit	02/03/2013	09/03/2013	17/03/2013	23/03/2013	28/03/2013	01/04/2013	07/04/2013	13/04/2013	20/04/2013	27/04/2013	04/05/2013	20/05/2013	24/05/2013	14/06/2013
Chloride	mg/L	54.8	58.2	76.8	62.7	83.2	76.3	69.4	65.7	68.8	72.4	74.5	74.1	74.7	1.2
Conductivity	umhos/cm	342	357	437	396	513	480	442	417	439	457	465	465	463	11.7
Hardness (as CaCO3)	mg/L	143	144	182	160	209	212	180	155	181	185	195	192	209	6.74
Mercury (Hg)-Total	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	0.000058	<0.000020	<0.000020
Oil & Grease-(IR)	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sodium Adsorption Ratio		0.33	0.34	0.4	0.37	0.38	0.35	0.4	0.36	0.36	0.38	0.41	0.35	0.38	0.07
Sulfate	mg/L	8.35	8.91	11.1	9.27	12.3	10.4	9.44	8.74	9.33	10	9.95	10.4	9.65	0.51
TDS (Calculated from EC)	mg/L	222	232	284	257	334	312	287	271	285	297	302	302	301	<20
Total Suspended Solids	mg/L	<5.0	<5.0	38	<5.0	<5.0	10	<5.0	<5.0	<5.0	<5.0	5	<5.0	<5.0	<5.0
pH	pH units	7.03	7.03	7.01	7.02	7.14	7.21	7.36	6.88	6.93	6.95	6.88	7.2	6.93	6.77
Aluminum (Al)-Total	mg/L	0.0053	<0.0050	0.143	0.0051	0.0054	0.0211	<0.0050	0.0062	<0.0050	0.0197	0.013	0.0072	<0.0050	0.0065
Antimony (Sb)-Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00031	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.00104	0.0010	0.0075	0.0011	0.0015	0.0051	0.0013	0.0012	0.0012	0.0013	0.0017	0.0042	0.0018	0.0003
Barium (Ba)-Total	mg/L	0.0488	0.0512	0.0806	0.0556	0.0717	0.0692	0.064	0.0619	0.0587	0.0688	0.0769	0.0666	0.0737	0.00242
Beryllium (Be)-Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	<0.010	<0.010	0.012	<0.010	0.013	0.015	0.01	<0.010	<0.010	0.01	0.015	0.012	0.01	<0.010
Cadmium (Cd)-Total	mg/L	0.00031	0.000101	0.00064	0.000022	0.000083	0.000954	<0.000010	0.000102	0.000135	0.000184	0.00012	0.000097	<0.000010	<0.000010
Calcium (Ca)-Total	mg/L	48.5	49	61	54	71	73	60	51	61.4	62	65	65	70	2.18
Cesium (Cs)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L	<0.00020	<0.00020	0.00094	<0.00020	<0.00020	0.00041	<0.00020	0.00067	0.00027	0.00039	0.00041	0.00062	0.00072	<0.00020
Copper (Cu)-Total	mg/L	0.00196	0.00149	0.00304	0.00147	0.00191	0.00583	0.00115	0.0015	0.00132	0.00293	0.00269	0.00116	0.00098	0.00052
Iron (Fe)-Total	mg/L	<0.10	<0.10	1.32	<0.10	0.14	1.39	<0.10	0.19	<0.10	<0.10	0.2	0.46	0.25	<0.10
Lead (Pb)-Total	mg/L	0.000127	<0.000090	0.000621	0.000107	0.00225	0.00323	<0.000090	0.000131	0.000129	0.000686	0.000359	0.000149	<0.000090	<0.000090
Lithium (Li)-Total	mg/L	0.0143	0.0153	0.0168	0.0159	0.0214	0.0192	0.0173	0.0168	0.0181	0.0182	0.0178	0.0186	0.0216	<0.0020
Magnesium (Mg)-Total	mg/L	5.3	5.4	7.25	6.4	7.88	7.25	7.3	6.73	6.7	7.17	7.98	7.29	8.38	0.315
Manganese (Mn)-Total	mg/L	0.0945	0.0389	0.378	0.076	0.0448	0.192	0.147	0.662	0.417	0.406	0.446	0.574	0.666	0.00817
Molybdenum (Mo)-Total	mg/L	<0.00020	0.00023	0.00024	<0.00020	<0.00020	<0.00020	<0.00020	0.00025	<0.00020	0.00023	0.00028	<0.00020	<0.00020	<0.00020
Nickel (Ni)-Total	mg/L	<0.0020	<0.0020	0.0043	<0.0020	0.0025	0.0026	<0.0020	<0.0020	0.002	0.0026	0.0027	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L	2.48	2.63	3.34	2.89	3.84	3.52	3.17	2.88	3.11	3.42	3.65	3.16	3.21	0.212
Rubidium (Rb)-Total	mg/L	0.00305	0.00273	0.00427	0.0033	0.00427	0.00412	0.00378	0.00325	0.00375	0.00413	0.00396	0.00358	0.00408	0.00026
Selenium (Se)-Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L	1.08	1.04	1.92	1.39	1.68	1.87	1.79	1.72	1.81	1.79	2.39	1.89	1.72	0.128
Silver (Ag)-Total	mg/L	<0.00010	<0.00010	0.0004	<0.00010	<0.00010	<0.00010	<0.00010	0.00026	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L	9.13	9.27	12.4	10.7	12.7	11.7	12.2	10.2	11.2	11.8	13.2	11	12.7	0.444
Strontium (Sr)-Total	mg/L	0.291	0.291	0.415	0.351	0.433	0.407	0.396	0.332	0.36	0.372	0.367	0.403	0.449	0.0105
Tellurium (Te)-Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00252	0.00039	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L	<0.00050	0.00058	0.00635	<0.00050	0.00057	0.00153	<0.00050	0.00057	<0.00050	0.00099	0.00094	<0.00050	<0.00050	<0.00050
Tungsten (W)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L	<0.00020	<0.00020	0.00049	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.006	0.0037	0.0099	0.0043	0.0069	0.0115	<0.0020	0.0065	0.0035	0.0221	0.0172	0.0056	<0.0020	<0.0020
Zirconium (Zr)-Total	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040

MELIADINE GOLD PROJECT
ENVIRONMENTAL REPORT JUNE 2013

			2013-Woody (Beg)	2013-Woody (Beg)	2013-Woody (Med)
Parameters	Unit	Limits	02/03/2013	17/03/2013	23/03/2013
Chloride	mg/L		76.7	92	85
Conductivity	umhos/cm		423	454	462
Hardness (as CaCO3)	mg/L		174	188	196
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020
Oil & Grease-(IR)	mg/L		<1.0	<1.0	<1.0
Sodium Adsorption Ratio			0.26	0.29	0.29
Sulfate	mg/L		8.09	9.38	8.51
TDS (Calculated from EC)	mg/L		275	295	301
Total Suspended Solids	mg/L	10	<5.0	<5.0	<5.0
pH	pH units	6.5-9.0	6.93	6.95	6.96
Aluminum (Al)-Total	mg/L	0.1	0.006	<0.0050	0.0069
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00133	0.00146	0.00142
Barium (Ba)-Total	mg/L		0.0586	0.0707	0.0683
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Hardness dependent	0.000259	0.000372	0.000031
Calcium (Ca)-Total	mg/L		61.1	65	68
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Hardness dependent	0.0021	0.00155	0.00223
Iron (Fe)-Total	mg/L	0.3	0.11	0.15	0.13
Lead (Pb)-Total	mg/L	Hardness dependent	0.00012	0.000142	0.0301
Lithium (Li)-Total	mg/L		0.0216	0.0216	0.024
Magnesium (Mg)-Total	mg/L		5.17	6.15	6.29
Manganese (Mn)-Total	mg/L		0.0613	0.0639	0.0718
Molybdenum (Mo)-Total	mg/L		0.00024	0.00025	0.00026
Nickel (Ni)-Total	mg/L	Hardness dependent	0.0023	0.0027	0.0028
Phosphorus (P)-Total	mg/L		<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L		3.06	3.45	3.44
Rubidium (Rb)-Total	mg/L		0.00344	0.004	0.00377
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		1.5	1.72	1.76
Silver (Ag)-Total	mg/L	0.0001	<0.00010	0.00023	<0.00010
Sodium (Na)-Total	mg/L		7.8	9.16	9.35
Strontium (Sr)-Total	mg/L		0.438	0.482	0.504
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	0.00058	0.02
Titanium (Ti)-Total	mg/L		0.00053	<0.00050	0.00074
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0088	0.0053	0.0068
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040

MELIADINE GOLD PROJECT
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			2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird	2013-Angry Bird
			Beg	Mid	Mid	Mid	Mid	Mid	Mid	Mid
Parameters	Unit	Limits	28/03/2013	13/04/2013	20/04/2013	27/04/2013	04/05/2013	20/05/2013	24/05/2013	14/06/2013
Chloride	mg/L		50.3	52.3	52.5	94.5	92.9	57	56	13.6
Conductivity	umhos/cm		383	397	400	696	687	433	422	89
Hardness (as CaCO3)	mg/L		163	153	165	295	301	188	195	38.4
Mercury (Hg)-Total	mg/L	0.000026	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Oil & Grease-(IR)	mg/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sodium Adsorption Ratio			0.33	0.35	0.35	0.48	0.51	0.36	0.4	0.17
Sulfate	mg/L		9.29	9.39	9.33	16.7	15.4	10.3	9.54	1.86
TDS (Calculated from EC)	mg/L		249	258	260	453	447	281	274	58
Total Suspended Solids	mg/L	10	<5.0	<5.0	<5.0	8	8	<5.0	<5.0	7
pH	pH units	6.5-9.0	7.17	6.94	6.99	7.09	6.93	7.29	6.96	7.18
Aluminum (Al)-Total	mg/L	0.1	<0.0050	0.0103	0.0114	0.0112	0.0139	<0.0050	<0.0050	0.0143
Antimony (Sb)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic (As)-Total	mg/L	0.005	0.00255	0.00241	0.0027	0.0142	0.0252	0.0024	0.00286	0.00118
Barium (Ba)-Total	mg/L		0.0546	0.0583	0.0575	0.127	0.136	0.0695	0.0673	0.0121
Beryllium (Be)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron (B)-Total	mg/L	1.5	<0.010	<0.010	<0.010	<0.010	0.01	<0.010	<0.010	<0.010
Cadmium (Cd)-Total	mg/L	Hardness dependent	0.000035	0.000224	0.000396	0.000114	0.00007	0.000032	<0.000010	0.000018
Calcium (Ca)-Total	mg/L		56	50.7	55.9	99	100	64	65	13.1
Cesium (Cs)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium (Cr)-Total	mg/L		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt (Co)-Total	mg/L		<0.00020	<0.00020	<0.00020	0.00141	0.00179	<0.00020	<0.00020	<0.00020
Copper (Cu)-Total	mg/L	Hardness dependent	0.00141	0.00213	0.00168	0.00312	0.00229	0.00103	0.0009	0.00057
Iron (Fe)-Total	mg/L	0.3	0.11	0.17	0.2	2.11	3.85	0.19	0.14	0.12
Lead (Pb)-Total	mg/L	Hardness dependent	<0.000090	0.00019	0.000335	0.000572	0.000196	<0.000090	<0.000090	<0.000090
Lithium (Li)-Total	mg/L		0.0097	0.0103	0.0101	0.018	0.0177	0.0113	0.0118	0.0031
Magnesium (Mg)-Total	mg/L		5.77	6.43	6.08	11.4	12.5	6.75	7.82	1.4
Manganese (Mn)-Total	mg/L		0.0732	0.108	0.105	1.15	1.39	0.355	0.495	0.0747
Molybdenum (Mo)-Total	mg/L		<0.00020	<0.00020	<0.00020	0.0004	0.00038	<0.00020	<0.00020	<0.00020
Nickel (Ni)-Total	mg/L	Hardness dependent	<0.0020	<0.0020	<0.0020	0.0041	0.0043	<0.0020	<0.0020	<0.0020
Phosphorus (P)-Total	mg/L		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium (K)-Total	mg/L		2.81	2.79	2.98	5.25	5.3	2.89	3.01	0.825
Rubidium (Rb)-Total	mg/L		0.00306	0.00325	0.00349	0.00641	0.00593	0.00333	0.00382	0.00088
Selenium (Se)-Total	mg/L	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L		2.04	2.3	2.25	3.28	4.63	2.46	2.49	0.367
Silver (Ag)-Total	mg/L	0.0001	<0.00010	0.00063	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L		9.72	10	10.4	18.9	20.5	11.3	12.7	2.47
Strontium (Sr)-Total	mg/L		0.252	0.257	0.252	0.469	0.482	0.307	0.327	0.0682
Tellurium (Te)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Total	mg/L	0.0008	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium (Th)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L		<0.00020	<0.00020	<0.00020	0.00024	<0.00020	<0.00020	<0.00020	<0.00020
Titanium (Ti)-Total	mg/L		<0.00050	0.00118	0.00079	0.0009	0.00121	<0.00050	<0.00050	0.00061
Tungsten (W)-Total	mg/L		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Uranium (U)-Total	mg/L	0.015	<0.00010	<0.00010	<0.00010	0.00015	0.00014	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Zinc (Zn)-Total	mg/L	0.03	0.0048	0.01	0.0107	0.0304	0.0103	0.0107	<0.0020	<0.0020
Zirconium (Zr)-Total	mg/L		<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040

7. The Licensee shall analyze the samples obtained at Monitoring Program Station MEL-8 for the following parameters:
- pH
 - Total Suspended Solids (TSS)
 - Oil & Grease
 - Total Trace metals as determined by a standard ICP Scan (to include at a minimum, the following elements: Al, Ba, Cd, Cr, Cu, Pb, Ni, Se, Sn, Zn); and
 - Trace Arsenic and Mercury

The Non-Hazardous Waste Landfill is not constructed yet.
