MELIADINE GOLD PROJECT

MONTHLY ENVIRONMENTAL REPORT: NOVEMBER 2012

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

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 **10.3 m3/day** for the month of November 2012; 0 m^3/day for the drills and 10.3m^3/day for the camp.

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

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 – BOD_5
Total Suspended Solids
Oil and Grease (and visual)
Fecal Coliforms
pH

Station: STP-OUT November

DATE	Limits	06/11/2012	20/11/2012	29/11/2012
Ammonia as N		4.4	8.0	1.3
Biochemical Oxygen Demand	80	6.1	6.0	6.0
Heterotrophic Plate Count (AAHB)		>3000	1,190.0	>3000
Nitrate-N		14.9	18.9	8.1
Nitrate and Nitrite as N		14.9	19.0	8.2
Nitrite-N		<0.05	0.1	0.1
Oil & Grease-(IR)	5	<1.0	<1.0	<1.0
Phosphorus (P)-Total		10.0	7.1	7.3
TKN		9.5	12.7	6.5
Total Suspended Solids	100	13.0	10.0	<5.0
Transmitance %		23.9	62.4	17.3
pH	6.5-9	7.5	6.0	7.4
Fecal Coliforms	1000	9,300.0	<3	510.0
Total Coliforms		24,000.0	<3	2,160.0

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 November

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.

   - No drilling on ice for the month of November.

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.