

MELIADINE GOLD PROJECT
MONTHLY ENVIRONMENTAL REPORT
DECEMBER 2012



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PRESENTED TO THE NUNAVUT WATER BOARD

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Contact:

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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

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- 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 **4.8m³/day** for the month of December 2012; 0 m³/day for the drills and 4.8m³/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 – BOD₅
Total Suspended Solids
Oil and Grease (and visual)
Fecal Coliforms
pH

The disinfection was not optimal during December. A brand new UV system will be in operation in January.

Station: STP-OUT		November			December
DATE	Limits	06/11/2012	22/11/2012	29/11/2012	18/12/2012
Ammonia as N		4.4	8.0	1.3	3.2
Biochemical Oxygen Demand	80	6.1	6.0	6.0	<6.0
Heterotrophic Plate Count (AAHB)		>3000	1,190.0	>3000	>3000
Nitrate-N		14.9	18.9	8.1	10.2
Nitrate and Nitrite as N		14.9	19.0	8.2	10.3
Nitrite-N		<0.05	0.1	0.1	0.1
Oil & Grease-(IR)	5	<1	<1	<1	<1
Phosphorus (P)-Total		10.0	7.1	7.3	10.0
TKN		9.5	12.7	6.5	12.0
Total Suspended Solids	100	13.0	10.0	>5.0	10.0
Transmittance %		23.9	62.4	17.3	17.0
pH	6.5-9	7.5	6.0	7.4	7.3
Fecal Coliforms	1000	9,300.0	<3	510.0	24,000.0
Total Coliforms		24,000.0	<3	2,160.0	24,000.0

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 December

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 December.

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.
