



26 Aug 2009

Licencing Coordinator
Nunavut Water Board
P.O. Box 119
Gjoa Haven
NU, X0B1J0

Re: Water Licence 2BB-MEL0709: July 2009 Monthly Report

Dear Ms. Beaulieu;

Please find attached our monthly report for July.

Testing of the Biodisk waste water treatment plant using greywater was initiated in July with commissioning expected next year.

The wetlands were dry when the samples required under the water licence were being collected resulting in no results for Mel-3. All greywater at the time was being added to the Biodisk treatment plant and none was being discharged to the wetlands.

Exploration drilling continues at the site and is expected to be completed in the latter part of September. At that time the camp will be closed for the winter.

We trust this report meets with the Board's satisfaction.

Yours sincerely,

Signed copy to follow by mail

John Witteman
Environmental Consultant to Comaplex

July 2009

Part J: Conditions Applying to the Monitoring Program

(1) Volume of Water

	Volume of water (m3/day)
MEL-1	4.3
MEL-2	75

The Mel-1 water meter was installed July 17th and the quantity of water used per day averaged 4.3 m³ over 12 days.

The quantity of water for MEL-2 is based on the average amount of water used by a drill in a single day multiplied by 3 operating drills. Meters have been installed on the drills and this data will be used in next month's report.

(2) Analytical Data for Greywater Monitoring

	Biochemical Oxygen Demand (mg/L)	Faecal Coliforms (CFU/dL)	Total Suspended Sediments (mg/L)	pH	Oil and Grease (mg/L)
MEL-3	Not available	NA	NA	NA	NA
MEL-4	<2.0	1	<3.0	7.35	<1

Note: The wetlands were dry at the time and MEL-3 samples could not be collected

(3) No drilling program was carried out on lake ice over the reporting period.

Addendum to July 2009 monthly report

Attached please find supplemental water quality data collected over the reporting period. This data is collected to gain a better understanding of the effect of the company's activities on the receiving environment.

CCME								.005-0.1	0.019		0.005	
MMER											0.5	
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	Alkalinity, Total (as CaCO3) (mg/L)	Aluminum (Al)-Total (mg/L)	Ammonia-N (mg/L)	Antimony (Sb)-Total (mg/L)	Arsenic (As)-Total (mg/L)	Barium (Ba)-Total (mg/L)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	23.0	<0.20	<0.050	<0.0080	<0.0080	0.410
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	39.7	<0.20	<0.050	<0.0080	<0.0080	0.340
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	40.5	<0.040	<0.050	<0.0016	0.0040	0.0941
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	40.1	<0.040	0.387	<0.0016	0.0034	0.0947
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	57.2	<0.040	<0.050	<0.0016	0.0050	0.113
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00						
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	107	<0.040	11.6	<0.0016	0.0139	0.135
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	100	<0.20	5.59	<0.0080	0.0132	0.137
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	34.7	<0.010	<0.050	<0.00040	0.00216	0.0195

CCME											0.017	
MMER												
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	Beryllium (Be)-Total (mg/L)	Bicarbonate (HCO3) (mg/L)	Biochemical Oxygen Demand (mg/L)	Boron (B)-Total (mg/L)	Cadmium (Cd)-Total (mg/L)	Calcium (Ca)-Dissolved (mg/L)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	<0.020	28.0		<0.080	<0.0010	398
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	<0.020	48.4		<0.080	<0.0010	350
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	<0.0040	49.4		<0.050	<0.00020	111
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	<0.0040	49.0		<0.050	<0.00020	125
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	<0.0040	69.8		<0.050	<0.00020	114
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00			<2.0			
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	<0.0040	131		<0.050	<0.00020	197
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	<0.020	122		0.225	<0.0010	303
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	<0.0010	42.3		<0.050	<0.000050	20.8

CCME										0.001		
MMER												
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	Calcium (Ca)- Total (mg/L)	Carbonate (CO3) (mg/L)	Chloride (Cl) (mg/L)	Chromium (Cr)-Total (mg/L)	Cobalt (Co)- Total (mg/L)	Conductivity (EC) (uS/cm)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	339	<5.0	839	<0.016	<0.0040	2800
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	337	<5.0	764	<0.016	<0.0040	2630
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	120	<5.0	270	<0.0050	<0.0020	1100
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	128	<5.0	284	<0.0050	<0.0020	1210
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	92.2	<5.0	214	<0.0050	<0.0020	871
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00						
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	144	<5.0	361	<0.0050	<0.0020	1650
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	266	<5.0	997	<0.016	0.0044	4520
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	21.1	<5.0	24.2	<0.0050	<0.0020	161

CCME							0.002-0.004				0.3	0.001-0.007
MMER							0.3					0.2
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	Copper (Cu)- Total (mg/L)	Hardness (as CaCO3) (mg/L)	Hydroxide (OH) (mg/L)	Ion Balance (%)	Iron (Fe)- Total (mg/L)	Lead (Pb)- Total (mg/L)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	<0.020	1130	<5.0	101	0.932	<0.0020
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	<0.020	1040	<5.0	101	0.329	<0.0020
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	<0.0040	355	<5.0	97.7	0.095	<0.00040
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	<0.0040	396	<5.0	97.5	0.020	<0.00040
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	<0.0040	341	<5.0	104	0.134	<0.00040
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00						
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	0.0081	589	<5.0	109	0.093	0.00064
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	<0.020	1300	<5.0	107	0.069	<0.0020
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	<0.0010	63.3	<5.0	102	0.051	<0.00010

CCME												0
MMER												
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	Lithium (Li)- Total (mg/L)	Magnesium (Mg)- Dissolved (mg/L)	Magnesium (Mg)-Total (mg/L)	Manganese (Mn)-Total (mg/L)	Mercury (Hg)- Total (mg/L)	MF - Fecal Coliforms (CFU/100mL)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	0.26	32.4	27.3	0.0404	<0.00010	
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	0.14	40.6	38.9	0.0075	<0.00010	
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	0.034	18.9	20.5	0.0036	<0.00010	
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	0.035	20.3	20.8	<0.0020	<0.00010	
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	0.049	13.8	11.1	0.0057	<0.00010	
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00						1
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	0.025	23.5	17.3	0.0471	<0.00010	
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	<0.12	133	115	0.134	<0.00010	
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	<0.010	2.76	2.83	0.0080	<0.00010	

CCME							0.073	0.025-0.015	2.9		0.006	
MMER								0.5				
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	Molybdenum (Mo)-Total (mg/L)	Nickel (Ni)-Total (mg/L)	Nitrate (as N) (mg/L)	Nitrate and Nitrite as N (mg/L)	Nitrite (as N) (mg/L)	Oil and Grease (mg/L)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	<0.0050	0.0084	<0.050	<0.071	<0.050	
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	<0.0050	0.0079	<0.050	<0.071	<0.050	
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	<0.0050	0.0031	0.396	0.396	<0.050	
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	<0.0050	0.0032	5.74	5.86	0.122	
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	<0.0050	0.0037	<0.050	<0.071	<0.050	
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00						<1.0
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	<0.0050	0.0072	9.58	9.72	0.131	
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	<0.0050	0.0474	21.0	21.2	0.148	
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	<0.0050	<0.0020	<0.050	<0.071	<0.050	

CCME							6.5 - 9.0					
MMER							6.0 - 9.5					
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	pH (pH)	Potassium (K)-Dissolved (mg/L)	Potassium (K)-Total (mg/L)	Selenium (Se)-Total (mg/L)	Silver (Ag)-Total (mg/L)	Sodium (Na)-Dissolved (mg/L)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	7.56	13.9	11.9	0.0266	<0.0020	39.5
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	7.77	9.64	9.27	0.0281	<0.0020	39.9
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	7.88	9.44	10.3	0.0033	<0.00040	43.5
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	7.87	10.4	10.8	0.0045	<0.00040	48.0
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	7.98	4.49	3.58	0.0047	<0.00040	16.9
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00						
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	7.98	16.1	12.0	0.0048	0.00062	58.4
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	8.05	37.7	33.6	0.0303	<0.0020	457
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	7.90	1.15	1.09	0.00047	0.00012	3.8

CCME												
MMER												
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	Sodium (Na)- Total (mg/L)	Sulfate (SO4) (mg/L)	TDS (Calculated) (mg/L)	Thallium (Tl)- Total (mg/L)	Tin (Sn)- Total (mg/L)	Titanium (Ti)- Total (mg/L)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	33.7	8.83	1350	<0.0020	<0.050	<0.012
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	37.0	13.7	1240	<0.0020	<0.050	<0.012
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	49.3	47.8	527	<0.00040	<0.050	<0.0024
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	50.1	63.2	601	<0.00040	<0.050	<0.0024
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	13.3	10.4	408	<0.00040	<0.050	<0.0024
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00						
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	43.7	62.5	826	<0.00040	<0.050	<0.0024
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	406	600	2680	<0.0020	<0.050	<0.012
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	3.8	2.76	76.3	0.00016	<0.050	<0.0010

CCME								29			0.03
MMER								15			0.5
Sample Location	Label	Lab. Report	UTM E	UTM N	Sample_Date	Sample_Time	Total Kjeldahl Nitrogen (mg/L)	Total Suspended Solids (mg/L)	Uranium (U)-Total (mg/L)	Vanadium (V)-Total (mg/L)	Zinc (Zn)-Total (mg/L)
A13	A13	L801984	539828	6988676	06-Aug-09	00:00	0.78		<0.0020	0.011	<0.080
A15	A15	L801984	539732	6988798	06-Aug-09	10:10	0.75		<0.0020	0.011	<0.080
A38	A38	L801984	540500	6988254	06-Aug-09	10:20	1.23		<0.00040	0.0022	<0.016
A54	A54	L801984	540135	6988794	06-Aug-09	10:30	1.65		<0.00040	0.0023	<0.016
A9	A9	L801984	540194	6988142	06-Aug-09	10:40	1.01		<0.00040	0.0024	<0.016
MEL4	MEL4	L801984	542092	6989012	06-Aug-09	00:00		<3.0			
P1	P1	L801984	539901	6988966	06-Aug-09	00:00	13.4		0.00118	0.0037	0.018
P2	Sump	L801984	539952	6988927	06-Aug-09	00:00	7.00		0.0117	0.010	<0.080
A8	Pump Lake	L801984	535000	6987700	06-Aug-09	10:50	0.37		<0.00010	<0.0010	<0.0040