



10 November 2009

Ms. Phyllis Beaulieu
Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven Nunavut X0B 1J0

Dear Ms. Beaulieu

MONTHLY REPORT FOR SEPTEMBER, 2009

LUPIN MINE - LICENSE 2AM-LUP0914

A three to five person crew was on site throughout the month of September conducting care and maintenance work at the Lupin site. They were housed in the Guest House on the mine site. Domestic water was provided to the house by hauling water from Contwoyto Lake by truck. Greywater disposal was effected via a leaching pit excavated adjacent to the house. Sanitary waste disposal was effected via a privy with human waste and domestic garbage being incinerated. The consumption of water from Contwoyto Lake at Monitoring Station LUP-01 was 40,000 Litres (40.0 m³) for domestic use only.

Discharge from the Tailings Containment Facility – Pond 2 over Dam 1A at Monitoring Station LUP-10 was conducted for the entire month. In September 2,044,289 m³ of effluent was discharged from Pond 2. Discharge from the Lower Sewage Lake at Monitoring Station LUP-14 was carried out from September 1st to September 24th. In September, 80,218 m³ of treated sewage effluent was discharged from the Lower Sewage Lake.

A summary of the results of chemical analytical testing completed, specific to the license discharge criteria, as part of the monitoring program is attached. Full Certificates of Analysis can be provided upon request.

We trust this provides the information required in the license for the monthly report of activities at Lupin. If you have any questions, please do not hesitate to contact me. I can be reached by phone at 807-346-1692 (direct line) or by e-mail at andrew.mitchell@mmgroupltd.com.

Yours truly

A handwritten signature in black ink that reads 'Andrew Mitchell'.

Andrew Mitchell

Development Manager

T 807 346 1692
F 807 345 0284
E andrew.mitchell@mmgroupltd.com
M 807 251 6722

cc Dave Honstein - NWB
Dionne Filiatrault – NWB
Melissa Joy - INAC
Martin McFarlane - MMG Resources Inc.

Encl. Summary of Monitoring Test Results-Surveillance Network Program

LUPIN MINE
SURVEILLANCE NETWORK MONITORING POINTS REPORT
MONTH OF AUGUST 2009

STATION	LOCATION	PARAMETERS	UNITS	RESULTS							Weekly Average
		PARAMETERS	UNITS	1-Sep-09	2-Sep-09	3-Sep-09	4-Sep-09	5-Sep-09	6-Sep-09	7-Sep-09	
LUP-10	Pond #2 Discharge at Dam 1A	Volume	m3/day	68,765	68,820	68,613	70,795	72,005	71,403	71,046	70,206
		Field pH	pH	7.51	7.56	7.49	7.62	7.58	7.64	7.64	7.58
		Field EC	uS/cm	970	900	869	1005	888	749	911	899
		Field TDS	ppm	483	500	458	535	421	362	490	464
		pH	pH	6.82	6.79	6.8	6.81	6.81	6.78	6.79	6.8
		Arsenic	mg/L	0.0099	0.0040	0.0092	0.0085	0.0088	0.0100	0.0104	0.0087
		Copper	mg/L	0.0026	0.0024	0.0023	0.0026	0.0023	0.0025	0.0025	0.0025
		Cyanide	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0000
		Lead	mg/L	0.000150	<0.00010	<0.00010	<0.00010	<0.00010	0.000100	0.000100	0.00005
		Nickel	mg/L	0.0818	0.0814	0.0813	0.0814	0.0816	0.0810	0.0825	0.0816
		Zinc	mg/L	0.289	0.285	0.286	0.287	0.289	0.291	0.287	0.2877
		TSS	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
		Oil and Grease	Visible Sheen	None	None	None	None	None	None	None	None
		Total Cadmium	mg/L	0.000275	0.000295	0.000280	0.000275	0.000270	0.000285	0.000270	0.000279
		Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	-	<5.0	<5.0
		Ammonia	mg/L	-	-	-	-	-	-	0.463	0.463
		Hardness	mg/L	-	-	-	-	-	-	206	206
		Toxicity - Daphnia	Pass/Fail	-	-	-	-	-	-	-	-
		Toxicity - Lake Trout	Pass/Fail	-	-	-	-	-	-	-	-
LUP-10	Pond #2 Discharge at Dam 1A	PARAMETERS	UNITS	RESULTS							Weekly Average
				8-Sep-09	9-Sep-09	10-Sep-09	11-Sep-09	12-Sep-09	13-Sep-09	14-Sep-09	
		Volume	m3/day	69,891	69,360	69,420	69,948	69,588	69,144	70,116	69,638
		Field pH	pH	6.85	6.26	6.42	6.46	6.64	6.81	8.69	6.8757143
		Field EC	uS/cm	867	897	985	860	981	985	780	908
		Field TDS	ppm	418	470	486	474	462	483	400	456
		pH	pH	6.53	6.66	6.64	6.65	6.71	6.97	6.55	6.67
		Arsenic	mg/L	0.0109	0.0105	0.0104	0.0113	0.0124	0.011	0.0104	0.0110
		Copper	mg/L	0.0028	0.000255	0.000275	0.0027	0.0027	0.00027	0.0023	0.0016
		Cyanide	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		Lead	mg/L	0.00024	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00017	0.0001
		Nickel	mg/L	0.0877	0.0858	0.0861	0.0867	0.0855	0.0824	0.0838	0.0854
		Zinc	mg/L	0.287	0.283	0.285	0.288	0.285	0.266	0.265	0.2799
		TSS	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	0.0000
		Oil and Grease	Visible Sheen	None	None	None	None	None	None	None	None
		Total Cadmium	mg/L	0.00028	0.000255	0.000275	0.000295	0.000305	0.00027	0.000335	0
		Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	<5.0	-	<5.0
		Ammonia	mg/L	-	-	-	-	-	0.42	-	0.42
		Hardness	mg/L	-	-	-	-	-	229	-	229
		Toxicity - Daphnia	Pass/Fail	-	-	-	-	-	-	-	-
		Toxicity - Lake Trout	Pass/Fail	-	-	-	-	-	-	-	-

LUPIN MINE
SURVEILLANCE NETWORK MONITORING POINTS REPORT
MONTH OF AUGUST 2009

LUP-10	Pond #2 Discharge at Dam 1A	PARAMETERS	UNITS	RESULTS							Weekly Average
				15-Sep-09	16-Sep-09	17-Sep-09	18-Sep-09	19-Sep-09	20-Sep-09	21-Sep-09	
		Volume	m3/day	70,200	69,612	69,500	69,536	68,658	69,469	67,440	69,202
		Field pH	pH	6.35	8.21	6.72	6.5	7.43	6.64	6.5	6.91
		Field EC	uS/cm	791	826	924	915	859	813	797	846
		Field TDS	ppm	402	415	497	462	444	409	400	433
		pH	pH	6.54	6.79	6.70	6.62	6.59	6.60	6.55	6.63
		Arsenic	mg/L	0.0118	0.0113	0.0113	0.0129	0.0113	0.0127	0.0114	0.01181
		Copper	mg/L	0.0025	0.0024	0.0027	0.0027	0.0026	0.0029	0.0027	0.002643
		Cyanide	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
		Lead	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.000120	0.000017
		Nickel	mg/L	0.0852	0.084	0.0837	0.0842	0.086	0.0858	0.087	0.085129
		Zinc	mg/L	0.284	0.272	0.269	0.272	0.277	0.277	0.279	0.275714
		TSS	mg/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
		Oil and Grease	Visible Sheen	None	None	-	None	None	None	None	None
		Total Cadmium	mg/L	0.000265	0.00025	0.000275	0.000255	0.00024	0.00028	0.000245	0.000259
		Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	-	<5.0	<5.0
		Ammonia	mg/L	-	-	-	-	-	-	0.433	0.433
		Hardness	mg/L	-	-	-	-	-	-	219	219
		Toxicity - Daphnia	Pass/Fail	-	-	-	-	-	-	-	-
		Toxicity - Lake Trout	Pass/Fail	-	-	-	-	-	-	-	-
LUP-10	Pond #2 Discharge at Dam 1A	PARAMETERS	UNITS	RESULTS							Weekly Average
				22-Sep-09	23-Sep-09	24-Sep-09	25-Sep-09	26-Sep-09	27-Sep-09	28-Sep-09	
		Volume	m3/day	66,373	67,258	64,206	64,890	65,570	64,345	66,214	65,551
		Field pH	pH	6.50	6.54	6.55	6.63	6.73	6.67	7.66	6.75
		Field EC	uS/cm	696	691	688	691	688	684	691	690
		Field TDS	ppm	348	351	344	346	349	346	346	347
		pH	pH	6.54	6.79	6.72	6.74	6.74	6.62	6.29	6.63
		Arsenic	mg/L	0.0110	0.0110	0.0107	0.0128	0.0102	0.0099	0.0027	0.0098
		Copper	mg/L	0.0027	0.0027	0.0028	0.0026	0.0023	0.0022	0.0022	0.0025
		Cyanide	mg/L	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
		Lead	mg/L	<0.00010	0.00068	<0.00010	0.00015	<0.00010	<0.00010	<0.00010	0.00012
		Nickel	mg/L	0.0854	0.0840	0.0851	0.0830	0.0820	0.0832	0.0709	0.0819
		Zinc	mg/L	0.2770	0.2760	0.2760	0.2640	0.2590	0.2630	0.2020	0.2596
		TSS	mg/L	<3.0	5.0	5.0	5.0	<3.0	6.0	4.0	3.6
		Oil and Grease	Visible Sheen	None	None	None	None	None	None	None	None
		Total Cadmium	mg/L	0.000290	0.000265	0.000260	0.000285	0.000226	0.000255	0.000205	0.000255
		Total Alkalinity as CaCO ₃	mg/L	-	-	-	-	-	-	<5.0	"<5.0
		Ammonia	mg/L	-	-	-	-	-	-	0.202	0.202
		Hardness	mg/L	-	-	-	-	-	-	176	176
		Toxicity - Daphnia	Pass/Fail	-	-	-	-	-	-	-	-
		Toxicity - Lake Trout	Pass/Fail	-	-	-	-	-	-	-	-

LUPIN MINE
SURVEILLANCE NETWORK MONITORING POINTS REPORT
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LUP-10 Pond #2 Discharge at Dam 1A

PARAMETERS	UNITS	RESULTS							Weekly Average
		29-Sep-09	30-Sep-09	1-Oct-09	2-Oct-09	3-Oct-09	4-Oct-09	5-Oct-09	
Volume	m3/day	64,247	61,132	63,201	62,573	60,093	58,228	59,338	61,259
Field pH	pH	6.86	6.92	6.86	7.41	6.95	6.84	6.96	6.97
Field EC	uS/cm	673	680	677	714	691	675	686	685
Field TDS	ppm	339	343	342	357	346	340	345	345
pH	pH	6.64	6.7	6.77	6.76	6.77	6.75	6.72	6.73
Arsenic	mg/L	0.0099	0.0101	0.00948	0.00929	0.00859	0.00937	0.00934	0.0094
Copper	mg/L	0.0023	0.0022	0.0020	0.0019	0.0019	0.0020	0.0023	0.0021
Cyanide	mg/L	<0.0020	0.0020	0.0020	0.0030	0.0020	0.0020	0.0020	0.0021
Lead	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Nickel	mg/L	0.0842	0.0806	0.0798	0.0801	0.0799	0.0798	0.0809	0.0808
Zinc	mg/L	0.2640	0.2610	0.2640	0.2660	0.2670	0.2660	0.2650	0.2647
TSS	mg/L	4.00	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.14
Oil and Grease	Visible Sheen	None	-	None	None	None	None	None	None
Total Cadmium	mg/L	0.000570	0.001480	0.000660	0.001420	0.000255	0.000270	0.000285	0.000706
Total Alkalinity as CaCO ₃	mg/L	-	<5.0	-	-	-	-	-	<5.0
Ammonia	mg/L	-	0.421	-	-	-	-	-	0.421
Hardness	mg/L	-	196	-	-	-	-	-	196
Toxicity - Daphnia	Pass/Fail	-	Pass	-	-	-	-	-	Pass
Toxicity - Lake Trout	Pass/Fail	-	Pass	-	-	-	-	-	Pass

LUPIN MINE
SURVEILANCE NETWORK MONITORING POINTS REPORT
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STATION	LOCATION	PARAMETERS	UNITS	RESULTS	
				13-Sep-09	29-Sep-09
LUP-14	Lower Sewage Lake Discharge	pH	pH Units	7.44	7.32
		Total Arsenic	mg/L	0.00562	0.00667
		Total Copper	mg/L	0.0015	0.0015
		Total Lead	mg/L	<0.00010	<0.00010
		Total Nickel	mg/L	0.0058	0.0074
		Total Zinc	mg/L	<0.0040	0.0045
		Total Suspended Solids	mg/L	4	4
		Alkalinity	mg/L	21.7	21.2
		Total Hardness	mg/L	99	85.8
		Ammonia	mg/L	<0.050	<0.050
		Total Phosphorous	mg/L	-	0.025
		Total Orthophosphate	mg/L	-	<0.010
		Total Nitrogen	mg/L	-	0.48
		Nitrite	mg/L	-	<0.050
		Nitrate	mg/L	-	<0.050
		Oil and Grease	Visible Sheen	None	None
		Total Faecal Colliforms	CFU/100 ml	-	<1
		BOD ₅	mg/L	<2.0	4.8

STATION	LOCATION	PARAMETERS	UNITS	RESULTS			
				6-Sep-09	13-Sep-09	20-Sep-09	28-Sep-09
LUP-20	West end of Seep Creek before discharge in to unamed lake	Total Arsenic	mg/L	0.00243	0.0025	0.00211	0.0027
		Total Cadmium	mg/L	0.000285	0.00027	0.00021	0.000205
		Total Copper	mg/L	0.0023	0.003	0.0021	0.0022
		Total Lead	mg/L	<0.00010	<0.00010	<0.00010	<0.00010
		Total Nickel	mg/L	0.0876	0.0843	0.0759	0.0709
		Total Zinc	mg/L	0.247	0.234	0.21	0.202
		Total Cyanide	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
		Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	4
		Total Alkalinity	mg/L	<5.0	<5.0	<5.0	<5.0
		Total Hardness	mg/L	206	198	191	176
		Ammonia	mg/L	0.22	0.197	0.22	0.202
		pH	pH Units	5.84	5.88	6.2	6.29

STATION	LOCATION	PARAMETERS	UNITS	RESULTS			
				6-Sep-09	13-Sep-09	20-Sep-09	28-Sep-09
LUP-21	North end of Concession Creek before discharge in to unamed lake	Total Arsenic	mg/L	0.00044	0.00046	<0.00040	0.00044
		Total Cadmium	mg/L	<0.000050	<0.000050	<0.000050	<0.000050
		Total Copper	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
		Total Lead	mg/L	0.00016	<0.00010	<0.00010	<0.00010
		Total Nickel	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
		Total Zinc	mg/L	<0.0040	<0.0040	<0.0040	<0.0040
		Total Cyanide	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
		Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	<3.0
		Total Alkalinity	mg/L	<5.0	<5.0	<5.0	<5.0
		Total Hardness	mg/L	4.1	4.3	4.7	4.5
		Ammonia	mg/L	<0.050	<0.050	<0.050	<0.050
		pH	pH Units	6.72	6.55	6.49	6.49

LUPIN MINE
SURVEILLANCE NETWORK MONITORING POINTS REPORT
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STATION	LOCATION	PARAMETERS	UNITS	RESULTS			
				6-Sep-09	13-Sep-09	20-Sep-09	27-Sep-09
LUP-22	Inner Sun Bay near center						
		Total Arsenic	mg/L	0.0015	0.00155	0.00135	0.0013
		Total Cadmium	mg/L	0.000175	0.00018	0.000205	0.000075
		Total Copper	mg/L	0.0022	0.0016	0.0025	0.0015
		Total Lead	mg/L	0.00027	<0.00010	0.00043	<0.00010
		Total Nickel	mg/L	0.0447	0.0534	0.0444	0.0286
		Total Zinc	mg/L	0.115	0.143	0.121	0.0821
		Total Cyanide	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
		Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	<3.0
		Total Alkalinity	mg/L	<5.0	<5.0	<5.0	<5.0
		Total Hardness	mg/L	130	130	122	70
		Ammonia	mg/L	0.067	0.111	0.121	0.073
		pH	pH Units	6.13	5.98	6.19	6.29
STATION	LOCATION	PARAMETERS	UNITS	RESULTS			
				6-Sep-09	13-Sep-09	20-Sep-09	28-Sep-09
LUP-24	Inner Sun Bay near narrows						
		Total Arsenic	mg/L	0.00095	0.0008	0.00077	0.00121
		Total Cadmium	mg/L	0.00006	0.000135	0.000085	0.000065
		Total Copper	mg/L	0.0016	0.0013	0.0015	0.0016
		Total Lead	mg/L	0.00047	0.00043	0.00012	<0.00010
		Total Nickel	mg/L	0.0179	0.0187	0.0315	0.0298
		Total Zinc	mg/L	0.0457	0.0437	0.0834	0.0709
		Total Cyanide	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
		Total Suspended Solids	mg/L	<3.0	<3.0	<3.0	4
		Total Alkalinity	mg/L	<5.0	<5.0	<5.0	<5.0
		Total Hardness	mg/L	48.5	50.9	87.5	63.7
		Ammonia	mg/L	<0.050	<0.050	<0.050	<0.050
		pH	pH Units	6.57	6.44	6.21	6.29
STATION	LOCATION	PARAMETERS	UNITS	RESULTS			
				6-Sep-09	13-Sep-09	20-Sep-09	28-Sep-09
LUP-25	Outer Sun Bay						
		Total Arsenic	mg/L	0.0004	0.00044	<0.00040	0.00052
		Total Cadmium	mg/L	<0.000050	<0.000050	<0.000050	0.0003
		Total Copper	mg/L	<0.0010	0.0021	<0.0010	<0.0010
		Total Lead	mg/L	0.0004	0.00053	0.00012	0.0002
		Total Nickel	mg/L	<0.0020	0.0027	0.0062	0.0053
		Total Zinc	mg/L	0.0087	0.0331	0.0211	0.016
		Total Cyanide	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
		Total Suspended Solids	mg/L	3	<3.0	<3.0	<3.0
		Total Alkalinity	mg/L	<5.0	<5.0	<5.0	<5.0
		Total Hardness	mg/L	5.3	6.6	19.1	17.2
		Ammonia	mg/L	<0.050	<0.050	<0.050	<0.050
		pH	pH Units	6.78	6.51	6.47	6.52