

Lupin Mines Incorporated

August 17, 2018

Mr. Baba Pedersen
Water Resources Inspector
Nunavut District, Nunavut Region,
Kugluktuk, NU

RE: Water Licence 2AM-LUP0914, Part E, Sec 4.

Commencement of discharge from Lupin Mine Tailings Containment Area

Dear Mr. Pedersen:

Please be advised that we plan to commence discharge from Pond 2 in approximately 10 days, on or about August 27, 2018. We plan to discharge approximately 4 million cubic meters into the receiving environment.

We are currently liming the Pond 2 and monitoring the pH. When the pH meets the range of 6 to 9.5, discharge may commence. Because the weather may become an issue, we may request approval from your office to commence discharge sooner than August 27, 2018 with the pH meeting the Water Licence criteria.

Below find Table 1, which contains the water quality lab results for parameters specified in the water licence, and Table 2 contains the Trout 24 hour and the Daphnia 48 hour Acute Toxicity Bioassay for samples collected August 09th.

Yours truly,

"Karyn Lewis"

Karyn Lewis
Project Manager
Lupin Mines Incorporated

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Table 1. August 09, 2018 Lab Results (LUP 10 (LUP 102))

		WL 2AM-LUP0914	
Parameter	ALS Lab. # L 2144620 Aug 09, 2018 @ 10:00 (mg/L)	Max Average Concentration (mg/L)	Max Concentration Grab sample (mg/L)
Total Arsenic	0.00229	0.50	1.00
Total Copper	0.00559	0.15	0.30
Total Cyanide	<0.0050	0.80	1.60
Total Lead	0.000157	0.10	0.20
Total Nickel	0.0594	0.20	0.40
Total Zinc	0.183	0.40	0.80
Total Mercury	<0.0000050	-	-
Total Suspended Solids	<3.0	15	30.00
Oil & Grease	Nvs	Visual sheen	Visual sheen
pH	6.31	6.0 to 9.5	6.0 to 9.5
Alkalinity	1.1	-	-
Ammonia (NH ₄)	0.0726	-	-
Nitrate	0.576	-	-
Nitrite	0.0171	-	-
Hardness	148	-	-

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Table 2. August 09, 2018 Acute Toxicity Bioassay (LUP 10 (LUP 102))

Nautilus Laboratories	Static Pass/Fail
August 09, 2018	
Rainbow Trout 24 hr.	Pass
Nautilus Laboratories	Static Pass/Fail
August 09, 2018	
Daphnia 48 hr.	Pass

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