

WATER LICENCE INSPECTION FORM

X	Original	
	Follow-Up	Report

Action Required (s.3)

Licensee				Licensee Representative						
Lupin Mines Inc.				Karyn Lewis						
Licence No. / Expiry					Representative's Title					
2AM-LUP0914(expir	ed)(am	ended)								
Sewage Lakes discharge	only to A	ugust 19	, 2015							
Land / Other Authorizations				Land / Othe	er Authoriz	ations				
8WLC-LUP1516 (Jun	e 10, 20)16)								
Date of Inspection				Inspector						
14/07/2015				Eva Pau	<u> </u>					
Activities Inspected	7 0.:11:		NA:nin-	Пс			□ Baalamatian □	7 5 (*****		
	Drilling Other: M	onitoring ar				Fuel Storage	2			
	<u> </u>									
Conditions: A - Ac	ceptable	(C - Concern U -	Unaccept	table	NA –	Not Applicable N	le NI – Not Inspected		
Water Use	Condition	Comment	Site Conditions		Condition	Comment	Haz/Mat Managemen	t Condition	Comment	
Intake/Screen	NA		Water Management S	tructures	U	4	Storage	Α		
Flow Measure. Device	NA		Culverts / Bridges		Α		Spills	U	8	
Source:	NA		Drainage		Α		Spill Plan	NI		
Water Use:	NA	1	Erosion / Sediment		U	5				
Recirculation (y /n) NA		Mitigation Measures		U	3	Administrative				
			Reclamation Activit	ies	J	3	Records	NI		
			Materials Storage		Α		Reports	С	3	
Waste Disposal		Signage		U	6	Plans	U	7		
Waste Water	U	2					Notifications	U		
Solid Waste	Α		Monitoring				Other			
Hazardous Waste	U	3	Sample Collection /	Analysis	J	7	Inspection Reports	U	9	
						Inspector's Direction	U	10		
*The number in the comments field will corresp					vith spec	ific comn	nents provided below.			
Samples taken by Inspector: Location(s): LUP-1				water inta	ke), LUP-	-10 (TCA	Pond 2), LUP-14 (Effluer	nt from LSL)	
⊠ Yes □ No										

An inspection was conducted on July 14 2014 to assess compliance at the Lupin Mine Site with LMI's several authorizations and an outstanding Direction. Currently, the Type 'A' water licence for the Lupin Mine is expired and as such LMI had no authorization to use water or deposit waste in relation to the Mine, although the obligations in the licence persist until such time as a renewal licence is approved. In order to conduct monitoring and site management, LMI sought an Emergency Amendment to the licence (valid to August 19, 2015) in order to decant the Sewage Lakes Facility, and an Approval without a Licence (NWB 8WLC-LUP1516) in order to use water for domestic purposes and deposit human waste. Additionally, a Direction was issued on September 8, 2014 to LMI to maintain the sewage lakes at a level that is consistent with safe operation, and to implement the recommendations in the 2014 geotechnical engineer's report. LMI has not built the camp that was authorized under 8WLC-LUP1516, and were conducting day

trips only to site, as use of the water and waste facilities licensed under 2AM-LUP0914 was prohibited. Following this inspection, on

Non-Compliance with Act or Licence (s.2)

I was joined on-site by Karyn Lewis of LMI, and Mathieu Beaudouin of Discovery Mining Services.

Comments (s.1)

an additional Direction was issued (2015-KIT002-EP) to decant the TCA.

- 1. At the time of the inspection no water was being used, as no camp facilities were in operation.
- 2. At the time of the inspection, waste water (effluent) from the sewage lagoon was trickling over a compromised section of the Lower Sewage Dam, and flowing freely around the south end of the dam due to high levels within the facility and lack of repairs to the dam [see Photos 1-3]. This is a recurring issue since 2012, indicating that this facility is not being operated or maintained satisfactorily. This is contrary to the Direction issued in 2014 and to the Emergency Amendment. As the peak of freshet had passed by the time I was on site, I believe that greater flow happened prior to my arrival on-site, and may have caused the small wash-out that was in evidence (the "compromised section"). It's also possible that it was caused by ice scouring. Organic matter from within Lower Sewage Lake (LSL) was piled up at this area. LMI (or their agent) was on site July 9, 2015 in order to sample from the lagoon; notice of the extreme level in the lagoon should have been reported at that time.
- 3. A portion of the tailings remains uncovered [Photos 4-7]. Despite the high water levels from freshet and precipitation (prompting LMI to notify the Minister indicating that the facility was in imminent need of decanting), the surface area of exposed tails in the unremediated portion of the TCA that is not covered by water remained essentially unchanged from last year. Also, the exposed tails remain solid enough to walk on, and in some areas the surface is cracked and flaking. To my knowledge, no mitigation measures have been put in place to cover the exposed tailings, whether temporarily or permanently. LMI's care and maintenance plan indicates that a binding agent will be applied to the exposed tails in Cells 3 and 5. It is also noted that the diagram of the TCA provided in the 2014 Geotechnical Inspection does not show the exposed tailings; the diagram shows the whole area as either covered or underwater which is not accurate.
- 4. A) The Lower Sewage Dam was not repaired nor decanted in a timely manner, contrary to the Inspector's Direction,



SECTION 1



resulting in a failure to contain effluent within the facility. The Upper Sewage Dam long, lengthwise cracks; one appears to be greater than 0.5 m in depth. These cracks were not noted in 2014. Slumping is noted on the west side of the dam. [Photos 8-10]

- B) At the time of the inspection there remained approximately 1.5 m freeboard in the TCA Pond 2. Mr. Beaudoin indicated at the lowest point in the pond wall there was approximately 1.2 m freeboard. 1 m of freeboard is required to be maintained in the facility, and the levels have increased more than 1 m from last year. [Direction 2015-KIT002-EP was issued on July 22 to decant the TCA]. [Photo 11]
- C) My observations at the main fuel farm are contrary to those of LMI's consultant in 2014 (2014 Lupin Fuel Tank Farm Inspection). Mr. Tong observed water ponding in the main tank farm, and did not observe active seepage at the time of his visit (August 19, 2014). Conversely, I noted that one berm (the cell with two orange tanks, immediately south of the largest berm) contained no ponding water while the berms on either side of it contained significant ponded water. Further, there was a clear seepage channel at the toe of that berm, with water flowing west toward the airstrip. I did not note any other obvious source for the flow of water. [Photos 12-16]
- 5. Erosion of the Lower Sewage Dam, Upper Sewage Dam, and the Tailings Containment structures [Photo 17] was evident at the time of the inspection.
- 6. No signage identifying the monitoring stations was noted.
- 7. Mathieu Beaudouin collected confirmatory water samples on behalf of LMI during the inspection, at the same locations I sampled. I noted that he forgot to wear gloves when he began sampling at LUP-1. LMI has not adhered to the timelines as outlined in the Liquid Waste Management Plan (2013), which has contributed to delays in decanting the facilities.
- 8. No spill report has been filed for the discharge of effluent from the Sewage Lakes prior to decant approval.
- 9. Several items were not addressed in 2014 with respect to the findings of the 2014 inspection. At the time of the 2015 inspection, these requirements have not yet been addressed. They are itemized below.
- 10. The geotechnical inspection occurred on September 15, 2014. LMI had not, at the time of this inspection, implemented the recommendations from the report, despite a Direction that was issued to the company indicating that any recommended repairs were to be carried out 'without delay'. At the time of this inspection, there was a failure of the dam to contain the effluent within Lower Sewage Lake.

SECTION 2 Comments Non-Compliance with Act or Licence

Action Required

Non-comprehensive list – prioritized for the matters most relevant and requiring to be addressed immediately. 2AM-LUP0914:

Part B Item 14: Failure to observe the Liquid Waste Management Plan.

Part D Item 4: Failure to carry out adequate inspections of water management structures.

Part E Item 6(d): Failure to immediately address erosion of the TCA.

Part H Item 8: Failure to report an unauthorized discharge of effluent.

Part J Item 8: Failure to undertake additional monitoring as requested by the Inspector.

NWB Emergency Amendment motion 2014-P11-12-03:

To "...preserve the necessary freeboard space and maintain the integrity of the Facilities, before and/or during 2015 freshet period, in accordance with the terms and conditions of Part E, Items 8 and 10 in Licence 2AM-LUP0914 and all associated monitoring and reporting obligations."

Inspector's Direction Dated September 8, 2014:

- 1. Failure to maintain the facility at a level that is consistent with safe operation.
- 2. Failure to implement recommendations of the 2014 Geotechnical Inspection with respect the Sewage Lakes Facilities.

Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002

- 12(1) Deposit of waste in contravention of a licence.
- 12(3) Failure to report a deposit of waste to an inspector.
- 86(4) Failure to furnish information as requested by an inspector for purposes of an inspection.
- 90(1) Failure to comply with a direction.
- 90(2)(a) Contravention of a Type A licence.



SECTION 3 Comments Non-Compliance with Act or Licence Action Required

Outstanding requirements from 2014 Inspection:

- 1. Hazardous Waste Inventory August 31 2015 (As per LMI's commitment of February 23, 2015).
- 2. Sampling outside TCA: documentation and assessment showing that the material outside the TCA is esker material and not tailings report to be received by Inspector by **September 30, 2015**. Confirmation that this work has been/is being conducted and that LMI will provide the report by September 30, 2015 is requested by **August 31, 2015**.
- 3. Geotechnical inspection of Waste Containment Areas report to be received by Inspector by October 31, 2015.
- 4. Cleanup of Spill 12-306 (Satellite Tank Farm) LMI is to complete removal of contaminated material by **August 31, 2015** and provide a report to the Inspector detailing its 2015 activities by **September 30, 2015** (As per LMI's commitment of February 23, 2015).

Let it be noted that these deadlines have now been extended by a year, with the exception of no.2 which is outstanding since 2012. I am confused by LMI's approach to site maintenance and compliance issues. While last year LMI focussed on the risks to the Sewage Lakes facility, this year while the situation was much worse, there was no urgency in LMI's actions to address the overtopping and the degradation of the facility. While LMI has chosen to only visit the site for day-trips until full use of the camp is secured, this does not excuse LMI of the responsibility of carrying out any and all obligations of the licence, past inspections, and the Directions. Additionally, LMI should ensure to undertake the activities earlier than last year, in order to avoid another year's delay due to snowfall. I made it very clear to Ms. Lewis while on-site that the sampling outside the TCA was to be completed this year with no excuses. Let it also be noted that as per Part H, item 8 of the licence, any spills or imminent risk of spills/unauthorized discharges are to be reported to the inspector immediately and the Spill Contingency Plan is to be implemented.

Additional requirements for 2015 include the fulfilment of the 2014 Inspector's Direction and the recent 2015 Direction (2015-KIT002-EP) dated July 22, 2015; and full compliance with the monitoring requirements of 2AM-LUP0914, particularly with respect to both the Sewage Lakes Facilities and the Tailings Containment Area discharges. Failure to meet other requirements of the licence and approved plans will be addressed in due course.

Licensee or Representative	Inspector's Name		
-	Eva Paul		
Signature	Signature		
-	Sent electronically		
Date	Date		
-	05/08/2015		

Att: Photo Log

CC: Phyllis Beaulieu, Manager of Licensing, NWB

Erik Allain, Manager of Field Operations, AANDC

Tracey McCaie, Manager, Lands Administration, AANDC

Baba Pedersen, Kitikmeot RMO, AANDC



PHOTO LOG





Description: Compromised section of Lower Sewage Dam. Effluent was trickling over this section at the time of the inspection in the direction of the arrow. It is suspected that the flow was greater prior to the inspection. Contents of LSL are pushed onto the berm (circled area).







Description: Aerial view of Cell 3 looking roughly north. Uncovered and exposed tailings shown in outlined area. Yellow marker denotes approximate location where Photo 5 was taken.





Description: View of the uncovered tailings taken from the north side near K Dam, looking south-east. Approximate location shown in Photo 4. I proceeded to walk across the tails southwards towards the water.

























Description: West berm of the fuel farm looking roughly North. Note dry cell in foreground and water ponded in the larger cell (orange reflection of tanks off water). Note the orange spray paint down-slope to the left for reference in Photos 14 and 15.

















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Date of Inspection				Inspector					
14/07/2015				Eva Paul					
Activities Inspected	1 ~		N					- 10.	
□ Camp □ Roads/Hauling	Drilling	onitoring an	Mining d water management	☐ Cor	nstruction		Reclamation 🛛	Fuel Storage	3
	Other. Wit	officoring an	a water management		iei.				
Conditions: A - Acc	ceptable	(C - Concern U -	- Unaccept	table	NA –	Not Applicable NI	– Not Ins	ected
Water Use	Condition	Comment	Site Conditions		Condition	Comment	Haz/Mat Management	Condition	Comment
Intake/Screen	NA		Water Management S	Structures	U	4	Storage	Α	
Flow Measure. Device	NA		Culverts / Bridges		Α		Spills	U	8
Source:	NA		Drainage		Α		Spill Plan	NI	
Water Use: NA 1 Erosio		Erosion / Sediment		U	5				
Recirculation (y /n) NA		Mitigation Measures		U	3	Administrative	_		
			Reclamation Activit	ies	U	3	Records	NI	
			Materials Storage		Α		Reports	С	3
Waste Disposal			Signage		U	6	Plans	U	7
Waste Water U 2					Notifications	U			
Solid Waste A Monitoring					Other				
Hazardous Waste U 3		Sample Collection / Analysis		U	7	Inspection Reports	U	9	
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Inspector's Direction Dated September 8, 2014:

- 1. Failure to maintain the facility at a level that is consistent with safe operation.
- 2. Failure to implement recommendations of the 2014 Geotechnical Inspection with respect the Sewage Lakes Facilities.

Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002

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- 90(1) Failure to comply with a direction.
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Report #2015-KIT012-EP

SECTION 3 Comments Non-Compliance with Act or Licence Action Required

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Additional requirements for 2015 include the fulfilment of the 2014 Inspector's Direction and the recent 2015 Direction (2015-KIT002-EP) dated July 22, 2015; and full compliance with the monitoring requirements of 2AM-LUP0914, particularly with respect to both the Sewage Lakes Facilities and the Tailings Containment Area discharges. Failure to meet other requirements of the licence and approved plans will be addressed in due course.

Licensee or Representative	Inspector's Name		
-	Eva Paul		
Signature	Signature		
-	Sent electronically		
Date	Date		
-	05/08/2015		

Att: Photo Log

CC: Phyllis Beaulieu, Manager of Licensing, NWB

Erik Allain, Manager of Field Operations, AANDC

Tracey McCaie, Manager, Lands Administration, AANDC

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PHOTO LOG





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Description: Aerial view of Cell 3 looking roughly north. Uncovered and exposed tailings shown in outlined area. Yellow marker denotes approximate location where Photo 5 was taken.

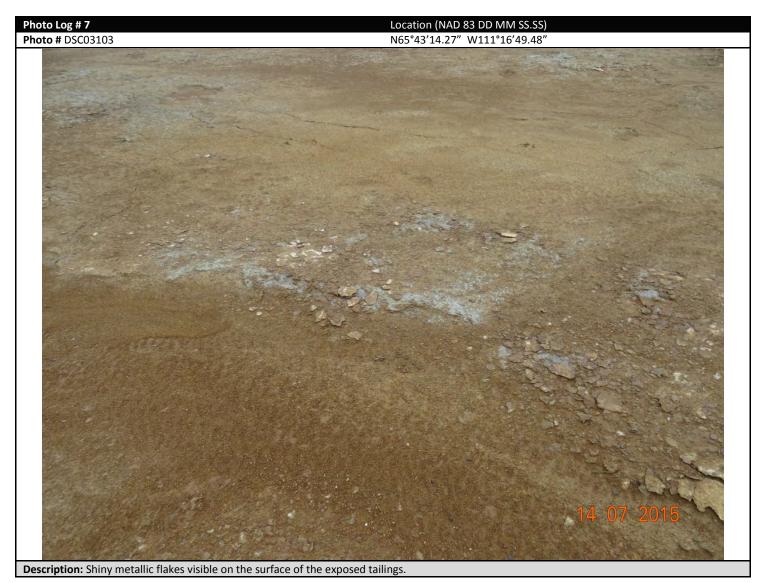




Description: View of the uncovered tailings taken from the north side near K Dam, looking south-east. Approximate location shown in Photo 4. I proceeded to walk across the tails southwards towards the water.

























Description: West berm of the fuel farm looking roughly North. Note dry cell in foreground and water ponded in the larger cell (orange reflection of tanks off water). Note the orange spray paint down-slope to the left for reference in Photos 14 and 15.

















INSPECTOR'S DIRECTION Pursuant to Section 87(1) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002

2015-KIT002-EP 22 July 2015

ISSUED TO: Lupin Mines Incorporated

Attn: Patrick Downey, President and CEO #1204 - 700 West Pender Street Vancouver, BC V6V 1G8

RE: Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002

INSPECTOR'S DIRECTION

This document constitutes an Inspector's Direction to Lupin Mines Inc., pursuant to subsection 87(1) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002, hereinafter referred to as the "Act".

REASONABLE GROUNDS FOR BELIEF

I, Eva Paul, an Inspector designated by the Minister of the Aboriginal Affairs and Northern Development Canada under subsection 85(1) of the Act, have reasonable grounds to believe:

That, pursuant to section 87(a)(iii) of the Act, there may be a failure of a work related to the use of waters or the deposit of waste, AND;

That, pursuant to section 87(1)(b) of the Act, the adverse effects of that failure may cause, a danger to persons, property or the environment.

It is my information and belief that:

- 1. Lupin Mines Incorporated ("LMI") holds the type 'A' water licence for Lupin Mine, 2AM-LUP0914 (the "Licence"). This licence expired on March 31 2014. On May 11, 2015, a renewal licence was issued by the Nunavut Water Board (NWB) for the Minister's approval, however, this approval was not granted.
- 2. In the absence of a valid water licence, LMI has no authority to use water or deposit waste in relation to Lupin Mine.
- 3. LMI received two temporary authorizations: an emergency amendment to 2AM-LUP0914 valid to August 19 2015, for discharge of the sewage lakes facility only, and 8WLC-LUP1516 valid to June 10 2016, for the establishment of a separate camp. However, neither of these temporary solutions permits the required discharge from the TCA, nor do they allow for use of the existing water use and waste disposal facilities.
- 4. On July 3, 2015 LMI wrote a letter to the Minister requesting that he reverse his decision to withhold approval of the new type 'A' water licence, 2AM-LÜP1520, indicating that without legal authority to discharge the Tailings Containment Area (TCA), there is a "severe risk of an uncontrolled discharge of effluent to the surrounding lands and receiving waters"... "in the very near term".
- 5. Clarification was immediately sought of LMI by the Inspector of the quantity and immediacy of the risk. LMI indicated that the original figure of 3,000,000L was incorrect and the correct volume to be discharged was 3,000,000m³, and that while there is no risk of imminent breach, that the TCA must be discharged in 2015 to prevent damage to the facility.
- 6. On July 10, 2015 a work plan was requested of LMI by AANDC and the Nunavut Water Board (NWB) to describe in detail the personnel required and the work to be carried out to mitigate the risk to this facility and the environment.
- 7. On July 16, 2015 LMI submitted to AANDC the requested plan entitled "Appendix A: Tailings Facility 2015 Work Plan", which details the personnel required and the work required to prepare, treat, sample, and discharge water from the TCA in accordance with requirements set by the Nunavut Water Board and by Environment Canada's Metal Mining Effluent Regulations, and the time it will take to do so.



MEASURES TO BE TAKEN

Pursuant to subsection 87(1) of the Act, I hereby direct Lupin Mines Incorporated to:

- 1. Immediately take the steps necessary to mitigate the risk to the TCA and to the environment. This shall be carried out in compliance with Part E of the expired 2AM-LUP0914 licence, the 2013 Liquid Waste Management Plan, and the 2015 Work Plan submitted to AANDC on July 16, 2015. In the case of conflict of dates or timings between the latter two documents, the Work Plan will supersede.
- 2. Implement fully the monitoring program as described in 2AM-LUP0914 (expired) with respect to the discharge (Stations LUP-10, LUP-20, LUP-21, LUP-22, LUP-24, and LUP-25) as identified in step 10 of the Work Plan.

LMI may accommodate up to 30 personnel at Lupin Mine as necessary to carry out the above tasks and may utilize the water facilities. However, there is an Inspector's Direction (issued September 8, 2014) that requires LMI to maintain the facility at a level that is consistent with safe operation, and to implement the recommendations in the 2014 geotechnical engineer's report "2014 Sewage Pond Dams Geotechnical Inspection_1CL008_002_PMH_AT_20141020". The sewage lakes may only be utilized

- a) once the recommendations in Part 4, paragraph 2 of the 2014 Sewage Pond Dams Geotechnical Inspection_1CL008_002_PMH_AT_20141020 with respect to the Lower Dam have been carried out;
- b) the effluent levels within those lakes is decanted to allow operation within the limits contained Part E of water licence 2AM-LUP0914; AND,
- c) the September 8, 2014 Inspector's Direction is subsequently revoked.

An alternate method of sewage disposal will be required in the interim. In addition to the personnel required for the TCA discharge, LMI may accommodate extra persons to complete the work on the Lower Sewage Dam.

If you fail to comply with this Direction, an AANDC Water Resources Officer duly appointed under the Act may take the measures referred to and may, for that purpose, enter any place in Nunavut, other than a place that is designed to be used and is being used as a permanent or temporary private dwelling-place. Any portion of the reasonable costs incurred by Her Majesty in right of Canada for such action may be recovered as a debt due to Her Majesty from you.

Failure to comply fully or in part with an Inspector's Direction constitutes an offence under subsection 90 (1) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act and may entail, upon summary conviction, a fine of \$100,000 or to imprisonment for a term of one year, or both.

Further pursuant to subsection 90 (4) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act, each day on which the Inspector's Direction is not complied with shall be considered a separate offence.

THE LAW

Nunavut Waters and Nunavut Surface Rights Tribunal Act, S.C. 2002, c. 10

Definitions

- "waste" means any substance that, by itself or in combination with other substances 4. found in water, would have the effect of altering the quality of any water to which the substance is added to an extent that is detrimental to its use by people or by any animal, fish or plant, or any water that would have that effect because of the quantity or concentration of the substances contained in it or because it has been treated or changed, by heat or other means, and includes
 - (a) any substance or water that, for the purposes of the Canada Water Act, is deemed to be waste:
 - (b) any substance or class of substances specified by the regulations;
 - water containing any substance or class of substances in a quantity or (c) concentration that is equal to or greater than that prescribed by the regulations; and



(d) water that has been subjected to a treatment or change described by the regulations.

"waters" means, except for the purposes of subsection 41(2), inland waters, whether in a liquid or solid state, on or below the surface of land.

Prohibitions

Use of waters

11. (1) Subject to subsection (2), no person shall use, or permit the use of, waters in Nunavut except in accordance with the conditions of a licence.

Deposit of Waste

- 12. (1) Subject to subsection (2) and except in accordance with the conditions of a licence, no person shall deposit or permit the deposit of waste
 - (a) in waters in Nunavut; or
 - (b) in any other place in Nunavut under conditions in which the waste, or any other waste that results from the deposit of that waste, may enter waters in Nunavut.

Duty to report deposits

12. (3) Where waste is deposited in contravention of this section, every person who owns or has the charge, management or control of the waste, or who caused or contributed to the deposit, shall, subject to the regulations, without delay report the deposit to an inspector.

Expiry or cancellation

46. The expiry or cancellation of a licence does not relieve the holder from any obligations imposed by the licence.

Remedial measures

- 87. (1) An inspector may direct any person to take such reasonable measures as the inspector may specify, including the cessation of an activity, to prevent the use of waters or the deposit of waste or the failure of a work related to the use of waters or the deposit of waste, or to counteract, mitigate or remedy the resulting adverse effects, where the inspector believes, on reasonable grounds,
 - (a) that
 - (i) waters have been or may be used in contravention of subsection 11(1) or of a condition of a licence,
 - (ii) waste has been or may be deposited in contravention of subsection 12(1) or of a condition of a licence, or
 - (iii) there has been, or may be, a failure of a work related to the use of waters or the deposit of waste, whether or not there has been compliance with any standards prescribed by the regulations or imposed by a licence; and
 - (b) that the adverse effects of that use, deposit or failure are causing, or may cause, a danger to persons, property or the environment.

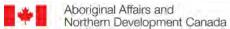
Powers of inspector

87. (4) Where a person fails to comply with a direction given under subsection (1), the inspector may take the measures referred to in that subsection and may, for that purpose, enter any place in Nunavut, other than a place that is designed to be used and is being used as a permanent or temporary private dwelling-place.

Recovery of Her Majesty's costs

87. (5) Any portion of the reasonable costs incurred by Her Majesty in right of Canada under subsection (4) that is not recoverable from the security furnished and maintained under section





76 may be recovered as a debt due to Her Majesty from the person to whom the direction was

Offences and Punishment

- 90. (1) Any person who contravenes subsection 11(1) or section 12, or fails to comply with subsection 11(3) or with a direction given by an inspector under subsection 87(1), is guilty of an offence and liable on summary conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding one year, or to both.
- 90. (2) A licensee holding a type A licence who
 - contravenes any condition of the licence, where the contravention does not constitute an offence under section 91, or
 - (b) fails, without reasonable excuse, to furnish or maintain security as required under subsection 76(1)

is guilty of an offence and liable on summary conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding one year, or to both.

Continuing offences

90. (4) Where an offence under this section is committed on or continued for more than one day, it is deemed to be a separate offence for each day on which it is committed or continued.

Action to enjoin not prejudiced by prosecution

93. (1) Notwithstanding that a prosecution has been instituted in respect of an offence under section 90, the Attorney General of Canada may commence and maintain proceedings to enjoin conduct that constitutes an offence under that section.

Civil remedy not affected

93. (2) No civil remedy for any act or omission is affected because the act or omission is an offence under this Part.

CONCLUSION

This Direction is WITHOUT PREJUDICE to any further course of action that AANDC may take with respect to any contravention of the Nunavut Waters and Nunavut Surface Rights Tribunal Act, including an amended or subsequent Inspector's Direction, prosecution or injunction under any Act.

AANDC will be conducting further inspections of the site to verify compliance under the Act and with the Inspector's Direction(s).

This Direction is issued in accordance with the Nunavut Waters and Nunavut Surface Rights Tribunal Act. The complete text of the Nunavut Waters and Nunavut Surface Rights Tribunal Act is available at the Department of Justice website: http://laws.justice.gc.ca/en/search. The complete text of the Water Licence is available at the Nunavut Water Board Public Registry, which may be accessed through the Board's website: http://www.nunavutwaterboard.org/en/.

If you require further information, have any questions or concerns, or wish respond to the alleged facts contained in this Direction, please call or write to the undersigned at (867) 975-4548 or Eva.Paul@aandc-aadnc.gc.ca. Your comments will be considered, and where appropriate, a response will be provided.

Eva Paul	_sent electronically			
Inspector	Inspector's Signature			

Phyllis Beaulieu, Manager of Licensing, Nunavut Water Board Cc: Erik Allain, Manager of Field Operations, AANDC Terry Sewell, A/Regional Director General, Nunavut Regional Office, AANDC





Ida Porter <ida.porter@nwb-oen.ca>

[Licensing] Documentation on Public Registry.

Eva Paul <Eva.Paul@aandc-aadnc.gc.ca>

Tue, Aug 11, 2015 at 2:25 PM

To: "Beaulieu, Phyllis" <phyllis.beaulieu@nwb-oen.ca>, "Ikkutisluk, Robin" <robin.ikkutisluk@nwb-oen.ca>, "Porter, Ida" <ida.porter@nwb-oen.ca>

Hi Ida, and thank you. The correspondence below is from July 29 onwards. Eva

>>> Ida Porter <ida.porter@nwb-oen.ca> 8/11/2015 4:18 PM >>> [Quoted text hidden]

——— Forwarded message —————

From: Eva Paul <Eva.Paul@aandc-aadnc.gc.ca>

To: Karyn Lewis <klewis@elginmining.com>, Patrick Downey <pdowney@elginmining.com>

Cc: Erik Allain < Erik. Allain@aandc-aadnc.gc.ca>, Terry Sewell < Terry. Sewell@aandc-aadnc.gc.ca>, "Cavanagh

Norm\ <Norm.Cavanagh@justice.gc.ca>" <Norm.Cavanagh@justice.gc.ca>, Christine Kowbel

<ckowbel@lawsonlundell.com>, licensing@nwb-oen.ca

Date: Wed, 29 Jul 2015 12:07:18 -0400

Subject: Recent events at Lupin Mine (2AM-LUP0914, amended)

Hello Karyn,

I am writing as a follow-up to the recent July 14, 2015 inspection, and to your e-mail below of July 24:

I have been conducting compliance inspections at Lupin Mine since 2012, and have issued inspection reports following each inspection that identified non-compliance with the water licences. While I have made numerous attempts to accommodate LMI's difficulties in meeting the requirements of the licences and the Act, there remains overall a failure to rectify the deficiencies that have been observed. In September 2014 I issued an Inspector's Direction that required of LMI the following:

- 1. "...Decant the Lower Sewage Lagoon and maintain the facility at a level that is consistent with safe operation. No new waste is to be deposited to the facility. This shall be carried out in compliance with Part E Items 4 and 8 of the expired Licence and until such time as a new licence is issued.
- 2. A geotechnical inspection is to be conducted of the Upper and Lower Sewage Lagoon. The engineer's report is to be submitted to the Nunavut Water Board and to the Inspector by October 31 2014, accompanied by a plan and timelines to implement the engineer's recommendations. Any repairs required are to be carried out without delay."

LMI did decant the facility in September 2014 following the issuance of the Direction.

The emergency amendment to the water licence as issued August 21, 2014 was issued to LMI for one specific purpose: "...to preserve the necessary freeboard space and maintain the integrity of the Facilities." As you are aware, I attended site on July 14 in order to determine whether compliance has been achieved with the existing licence(s) and the Direction. I found that the requirements of the licence(s) and the Direction have not been met: a) the lagoon had not been maintained at a safe level, and consequently effluent was flowing, unchecked, out of the facility; and b) the repairs recommended in the 2014 Geotechnical Inspection had not been undertaken.

Your e-mail of July 24 (below) indicates to me that perhaps we are suffering from a misunderstanding in terms of terminology. While standing on the Lower Sewage Dam on July 14, we both observed that effluent was both flowing around the side of the dam, and also trickling over a low point in the top of the dam. Your e-mail below states that "the lower sewage dam is not overtopping and there is no failure of a work", in spite of us both having seen it and in spite of having photos that demonstrate that this was, in fact, occurring. Whether it

is called 'overtopping', or 'failing to contain the effluent', it is very clear that the Lower Sewage Dam is not fulfilling its intended purpose, and this constitutes a failure. You also state that "The samples weren't tested for oil & grease because we are not required to test for that...", however it is clearly listed as a requirement of Part E item 8 of the effective licence (2AM-LUP0914, amended). It is not at the discretion of the sampler to determine whether or not there is a visible sheen; that is a determination to be made by the objective analyst. Misunderstandings of this nature are far from helpful in our ongoing efforts to work together to achieve compliance within this regulatory framework.

I was relieved to receive your e-mail of July 27, which indicates that LMI is returning to site immediately to complete the discharge and the repairs to the lagoon. A follow-up inspection will be conducted in August by myself or another AANDC inspector, and attended by a Geotechnical Engineer. At this time we hope to be able to confirm compliance with the recommendations that were provided by LMI's consultant in the 2014 Sewage Dam Inspection, in order to authorize use of the facility going forward.

I also expect to return to site in September, to monitor progress with the recently issued July 22 Direction (2015-KIT002-EP) with respect to the Tailings Containment discharge. It is my sincere hope that we can reach a conclusion to these problems within the confines of the inspection process and that matters do not have to escalate any further.

An inspection report for the July 14, 2015 inspection is forthcoming.

Best regards,

Eva Paul

Water Resources Officer | Agent des ressources en eau Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada Nunavut Regional Office | Bureau régional du Nunavut Building 969, PO Box 2200 | Édifice 969, CP 2200 Iqaluit, NU X0A 0H0

Phone | Tél. : 867-975-4548 Cell | Mobile: 867-222-6490 Fax | Téléc. : 867-979-6445 Eva.Paul@aandc-aadnc.gc.ca

>>> Karyn Lewis <klewis@elginmining.com> 7/24/2015 11:48 AM >>>

Hi Eva.

Thanks for confirming that the discharge is authorized. As we observed during our joint inspection, the lower sewage dam is not overtopping and there is no failure of a work so we were very surprised that you should include that statement in your correspondence.

As we discussed during the inspection, we have been waiting for the lab work to confirm that discharge was allowed and to organize a crew. We delivered the samples to the lab on July 10th, and received the results on July 21st, and then had the results reviewed by our consultants by July 22nd. We forwarded those results to you within a day of receiving them ourselves. We weren't able to keep a crew on standby, so we are working to get a competent crew out as soon as possible. We are taking all reasonable measures to comply with the various regulatory requirements, including the Direction dated July 22, 2015

As for oil & grease, there are no lab results. The samples weren't tested for oil & grease because we are not required to test for that, so the reference on the summary table was to the visual observation that no sheen was observed.

Karyn Lewis

778-386-7340

From: Eva Paul [mailto:Eva.Paul@aandc-aadnc.gc.ca]

Sent: July-23-15 1:55 PM

To: Karyn Lewis

Cc: Erik Allain; Patrick Downey; licensing@nwb-oen.ca Subject: Re: Lupin - Sewage Lagoon Sample Results

Hi Karyn,

Sorry it's taken me a day to get the attachments you sent downloaded and read; the hazards of being on a mobile device. Although it's a step up from not having wireless at all, as I was without for the last couple of days. Thank you for the results, and the summary table that you attached. I don't see the lab result for Oil and Grease, although you've included it in the summary. Can you please send the report?

As you saw while we were at site on the 15th, the lower sewage dam was overtopping. I'm surprised you don't have arrangements made yet; it is still just as big a deal as it was last year when the emergency amendment was sought. Bigger, in fact, as this constitutes failure of a work. LMI needs to address this immediately. Discharge is authorized as soon as you can get there.

Eva

From: Karyn Lewis

Sent: Wednesday, July 22, 2015 10:57 PM

To: Eva Paul

Cc: Patrick Downey; Licensing Department

Subject: Lupin - Sewage Lagoon Sample Results

Eva,

Please find attached a copy of the lab results for samples from LMI's Sewage Lakes Disposal Facilities at the Lupin Mine. As the samples meet the limits for discharge as set out in paragraph 8 of Part E of our Type A Water Licence, and in accordance with your Direction, we are planning on discharging from the Sewage Lakes either later this week or early next week (as soon as we have confirmed a flight and crew). Once the date is confirmed, we will advise you.

Karyn Lewis

Lupin Mines Incorporated

778-386-7340

------ Forwarded message ------

From: Eva Paul <Eva.Paul@aandc-aadnc.gc.ca>

To: Karyn Lewis <klewis@elginmining.com>, Patrick Downey <pdowney@elginmining.com>

Cc: Erik Allain < Erik. Allain@aandc-aadnc.gc.ca>, Terry Sewell < Terry. Sewell@aandc-aadnc.gc.ca>, "Cavanagh\ Norm<Norm. Cavanagh@justice.gc.ca" < Norm. Cavanagh@justice.gc.ca>, Christine Kowbel

<ckowbel@lawsonlundell.com>, licensing@nwb-oen.ca

Date: Fri, 31 Jul 2015 13:41:24 -0400

Subject: RE: Recent events at Lupin Mine (2AM-LUP0914, amended)

Hello Karyn,

In order to ensure we're not overlooking any details, I'll copy and paste from the original documents:

As per the September 8 2014 Inspector's Direction:

"1. ...to immediately decant the Lower Sewage Lagoon and maintain the facility at a level that is consistent with safe operation. No new waste is to be deposited to the facility. This shall be carried out in compliance with Part E Items 4 and 8 of the expired Licence and until such time as a new licence is issued.

2. A geotechnical inspection is to be conducted of the Upper and Lower Sewage Lagoon. The engineer's report is to be submitted to the Nunavut Water Board and to the Inspector by October 31 2014, accompanied by a plan and timelines to implement the engineer's recommendations. Any repairs required are to be carried out without delay."

Thus, the 2014 Direction requires that the repairs to the facility be carried out prior to use. No repairs were recommended to the upper dam; only to the lower dam. It was not undertaken in 2014, which necessitated further direction in 2015.

As per the July 22 2015 Inspector's Direction:

"The sewage lakes may only be utilized:

- a) once the recommendations in Part 4, paragraph 2 of the 2014 Sewage Pond Dams Geotechnical Inspection_1CL008_002_PMH_AT_20141020 with respect to the Lower Dam have been carried out; b) the effluent levels within those lakes is decanted to allow operation within the limits contained Part E of water licence 2AM-LUP0914; AND.
- c) the September 8, 2014 Inspector's Direction is subsequently revoked."

Unauthorized discharges from this facility have been documented since 2012 and it is now time to fix the problem, properly and completely. My expectation is that the full suite of recommendations given by Mr. Tong are implemented: immediately to the lower dam, and, if it should prove necessary, to the upper dam prior to the end of this field season.

In order to revoke the 2014 Direction, you are correct that AANDC requires confirmation that LMI's work on the lower sewage lagoon complies with the recommendations from the 2014 Sewage Dam Inspection report. Thank you for providing a potential solution. I would ask that while on-site, Mr. Tong again re-assess both the lower and upper dams. I am still working on the inspection report from July, however, while we were there I noted that the upper dam showed tension cracks that were not in evidence in 2014. So, it would probably be easiest if you have him assess it while he's on-site, rather than having to return at a later date, causing potential further delays.

Following the inspection, I would ask that you provide Mr. Tong's report, certified and unedited, that we may review it. Also, if you would like to expedite the process, you may authorize Mr. Tong to correspond directly with me or my representative, so that any questions we have may be answered more quickly. I will do my best to ensure that it is reviewed as soon as possible at our end. When we are satisfied with the work and the information provided, LMI will be notified that the Direction is revoked and the facility may be put into service.

AANDC will follow up with an on-site inspection as indicated in my last correspondence. However, a quick turn-around of Mr. Tong's report and/or direct discussion with Mr. Tong may provide enough information to revoke the Direction prior to the site visit. We all hope to reach a resolution to this issue as soon as possible.

Thank you,

Eva Paul

Water Resources Officer | Agent des ressources en eau Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada Nunavut Regional Office | Bureau régional du Nunavut Building 969, PO Box 2200 | Édifice 969, CP 2200 Igaluit, NU X0A 0H0

Phone | Tél. : 867-975-4548 Cell | Mobile: 867-222-6490 Fax | Téléc. : 867-979-6445 Eva.Paul@aandc-aadnc.gc.ca

>>> Karyn Lewis <klewis@elginmining.com> 7/30/2015 7:54 PM >>>

Eva.

Thanks for your email. We agree with you that we should be focusing on working together to reach a satisfactory conclusion. While we disagree with a number of statements in your email, we find that there is little to be gained by debating these points. We suggest it would be more productive for us to meet and discuss some of those issues in person at some future date after this summer's field season.

We wish to confirm our next steps with you. In your email, you said AANDC requires confirmation that LMI's work on the lower sewage lagoon complies with the recommendations from the 2014 Sewage Dam Inspection report before LMI can use the facility. That work should be completed by Monday, August 3rd. We suggest that Mr. Tong, P.Eng., the author of the 2014 Sewage Dam Inspection Report, attend site to inspect the work and, subject to the results of his inspection, confirm its compliance with his recommendations. Mr. Tong is scheduled to attend site on Tuesday, August 4th and we will provide AANDC with a copy of his Lower Sewage Dam Inspection report as soon as we receive it.

We look forward to continuing to work with you on this important matter.

Karyn Lewis

Lupin Mines Incorporated

778-386-7340

From: Eva Paul [mailto:Eva.Paul@aandc-aadnc.gc.ca]

Sent: July-29-15 9:07 AM **To:** Karyn Lewis; Patrick Downey

Cc: Erik Allain; Terry Sewell; Cavanagh Norm < Norm. Cavanagh@justice.gc.ca; Christine Kowbel;

licensing@nwb-oen.ca

Subject: Recent events at Lupin Mine (2AM-LUP0914, amended)

Hello Karyn,

I am writing as a follow-up to the recent July 14, 2015 inspection, and to your e-mail below of July 24:

I have been conducting compliance inspections at Lupin Mine since 2012, and have issued inspection reports following each inspection that identified non-compliance with the water licences. While I have made numerous attempts to accommodate LMI's difficulties in meeting the requirements of the licences and the Act, there remains overall a failure to rectify the deficiencies that have been observed. In September 2014 I issued an Inspector's Direction that required of LMI the following:

- 1. "...Decant the Lower Sewage Lagoon and maintain the facility at a level that is consistent with safe operation. No new waste is to be deposited to the facility. This shall be carried out in compliance with Part E Items 4 and 8 of the expired Licence and until such time as a new licence is issued.
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LMI did decant the facility in September 2014 following the issuance of the Direction.

The emergency amendment to the water licence as issued August 21, 2014 was issued to LMI for one specific purpose: "...to preserve the necessary freeboard space and maintain the integrity of the Facilities." As you are aware, I attended site on July 14 in order to determine whether compliance has been achieved with the existing licence(s) and the Direction. I found that the requirements of the licence(s) and the Direction have not been met: a) the lagoon had not been maintained at a safe level, and consequently effluent was flowing, unchecked, out of the facility; and b) the repairs recommended in the 2014 Geotechnical Inspection had not been undertaken.

Your e-mail of July 24 (below) indicates to me that perhaps we are suffering from a misunderstanding in terms of terminology. While standing on the Lower Sewage Dam on July 14, we both observed that effluent was both flowing around the side of the dam, and also trickling over a low point in the top of the dam. Your e-mail below states that "the lower sewage dam is not overtopping and there is no failure of a work", in spite of us both having seen it and in spite of having photos that demonstrate that this was, in fact, occurring. Whether it is called 'overtopping', or 'failing to contain the effluent', it is very clear that the Lower Sewage Dam is not fulfilling its intended purpose, and this constitutes a failure. You also state that "The samples weren't tested for oil & grease because we are not required to test for that...", however it is clearly listed as a requirement of Part E item 8 of the effective licence (2AM-LUP0914, amended). It is not at the discretion of the sampler to determine whether or not there is a visible sheen; that is a determination to be made by the objective analyst. Misunderstandings of this nature are far from helpful in our ongoing efforts to work together to achieve compliance within this regulatory framework.

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An inspection report for the July 14, 2015 inspection is forthcoming.

Best regards,

Eva Paul

Water Resources Officer | Agent des ressources en eau

Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada

Nunavut Regional Office | Bureau régional du Nunavut

Building 969, PO Box 2200 | Édifice 969, CP 2200

Iqaluit, NU X0A 0H0

Phone | Tél. : 867-975-4548

Cell | Mobile: 867-222-6490

Fax | Téléc. : 867-979-6445

Eva.Paul@aandc-aadnc.gc.ca

>>> Karyn Lewis <klewis@elginmining.com> 7/24/2015 11:48 AM >>>

Hi Eva,

Thanks for confirming that the discharge is authorized. As we observed during our joint inspection, the lower sewage dam is not overtopping and there is no failure of a work so we were very surprised that you should include that statement in your correspondence.

As we discussed during the inspection, we have been waiting for the lab work to confirm that discharge was

allowed and to organize a crew. We delivered the samples to the lab on July 10th, and received the results on July 21st, and then had the results reviewed by our consultants by July 22nd. We forwarded those results to you within a day of receiving them ourselves. We weren't able to keep a crew on standby, so we are working to get a competent crew out as soon as possible. We are taking all reasonable measures to comply with the various regulatory requirements, including the Direction dated July 22, 2015

As for oil & grease, there are no lab results. The samples weren't tested for oil & grease because we are not required to test for that, so the reference on the summary table was to the visual observation that no sheen was observed.

Karyn Lewis

Lupin Mines Incorporated

778-386-7340

From: Eva Paul [mailto:Eva.Paul@aandc-aadnc.gc.ca]

Sent: July-23-15 1:55 PM

To: Karyn Lewis

Cc: Erik Allain; Patrick Downey; Iicensing@nwb-oen.ca **Subject:** Re: Lupin - Sewage Lagoon Sample Results

Hi Karyn,

Sorry it's taken me a day to get the attachments you sent downloaded and read; the hazards of being on a mobile device. Although it's a step up from not having wireless at all, as I was without for the last couple of days. Thank you for the results, and the summary table that you attached. I don't see the lab result for Oil and Grease, although you've included it in the summary. Can you please send the report?

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Eva

From: Karyn Lewis

Sent: Wednesday, July 22, 2015 10:57 PM

To: Eva Paul

Cc: Patrick Downey; Licensing Department

Subject: Lupin - Sewage Lagoon Sample Results

Eva,

Please find attached a copy of the lab results for samples from LMI's Sewage Lakes Disposal Facilities at the Lupin Mine. As the samples meet the limits for discharge as set out in paragraph 8 of Part E of our Type A Water Licence, and in accordance with your Direction, we are planning on discharging from the Sewage Lakes either later this week or early next week (as soon as we have confirmed a flight and crew). Once the date is confirmed, we will advise you.

Karyn Lewis

Lupin Mines Incorporated

778-386-7340

----- Forwarded message -----

From: Karyn Lewis <klewis@elginmining.com>

To: Eva Paul <Eva.Paul@aandc-aadnc.gc.ca>, Patrick Downey <pdowney@elginmining.com>

Cc: Erik Allain < Erik. Allain@aandc-aadnc.gc.ca>, Terry Sewell < Terry. Sewell@aandc-aadnc.gc.ca>, "Cavanagh

Norm < Norm.Cavanagh@justice.gc.ca" < Norm.Cavanagh@justice.gc.ca>, Christine Kowbel

<ckowbel@lawsonlundell.com>, "licensing@nwb-oen.ca" licensing@nwb-oen.ca>

Date: Thu, 30 Jul 2015 23:54:07 +0000

Subject: RE: Recent events at Lupin Mine (2AM-LUP0914, amended)

Eva,

Thanks for your email. We agree with you that we should be focusing on working together to reach a satisfactory conclusion. While we disagree with a number of statements in your email, we find that there is little to be gained by debating these points. We suggest it would be more productive for us to meet and discuss some of those issues in person at some future date after this summer's field season.

We wish to confirm our next steps with you. In your email, you said AANDC requires confirmation that LMI's work on the lower sewage lagoon complies with the recommendations from the 2014 Sewage Dam Inspection report before LMI can use the facility. That work should be completed by Monday, August 3rd. We suggest that Mr. Tong, P.Eng., the author of the 2014 Sewage Dam Inspection Report, attend site to inspect the work and, subject to the results of his inspection, confirm its compliance with his recommendations. Mr. Tong is scheduled to attend site on Tuesday, August 4th and we will provide AANDC with a copy of his Lower Sewage Dam Inspection report as soon as we receive it.

We look forward to continuing to work with you on this important matter.

Karyn Lewis

Lupin Mines Incorporated

From: Eva Paul [mailto:Eva.Paul@aandc-aadnc.gc.ca]

Sent: July-29-15 9:07 AM **To:** Karyn Lewis; Patrick Downey

Cc: Erik Allain; Terry Sewell; Cavanagh Norm < Norm. Cavanagh@justice.gc.ca; Christine Kowbel;

licensing@nwb-oen.ca

Subject: Recent events at Lupin Mine (2AM-LUP0914, amended)

Hello Karyn,

I am writing as a follow-up to the recent July 14, 2015 inspection, and to your e-mail below of July 24:

I have been conducting compliance inspections at Lupin Mine since 2012, and have issued inspection reports following each inspection that identified non-compliance with the water licences. While I have made numerous attempts to accommodate LMI's difficulties in meeting the requirements of the licences and the Act, there remains overall a failure to rectify the deficiencies that have been observed. In September 2014 I issued an Inspector's Direction that required of LMI the following:

- 1. "...Decant the Lower Sewage Lagoon and maintain the facility at a level that is consistent with safe operation. No new waste is to be deposited to the facility. This shall be carried out in compliance with Part E Items 4 and 8 of the expired Licence and until such time as a new licence is issued.
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LMI did decant the facility in September 2014 following the issuance of the Direction.

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Karyn Lewis

Lupin Mines Incorporated

778-386-7340

From: Eva Paul [mailto:Eva.Paul@aandc-aadnc.gc.ca]

Sent: July-23-15 1:55 PM

To: Karyn Lewis

Cc: Erik Allain; Patrick Downey; Iicensing@nwb-oen.ca **Subject:** Re: Lupin - Sewage Lagoon Sample Results

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From: Karyn Lewis

Sent: Wednesday, July 22, 2015 10:57 PM

To: Eva Paul

Cc: Patrick Downey; Licensing Department

Subject: Lupin - Sewage Lagoon Sample Results

Eva.

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----- Forwarded message ——

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Cc: Erik Allain < Erik. Allain@aandc-aadnc.gc.ca>, Terry Sewell < Terry. Sewell@aandc-aadnc.gc.ca>, "Cavanagh

Norm<Norm.Cavanagh@justice.gc.ca" <Norm.Cavanagh@justice.gc.ca>, Christine Kowbel

<ckowbel@lawsonlundell.com>, "licensing@nwb-oen.ca" <licensing@nwb-oen.ca>

Date: Tue, 11 Aug 2015 02:24:54 +0000

Subject: RE: Recent events at Lupin Mine (2AM-LUP0914, amended)

Eva,

Please find attached a report from Alvin Tong, P.Eng. We are providing Mr. Tong's letter to you to satisfy condition (a) on page 2 of your Inspector's Direction dated July 22, 2015 for the use of the sewage lagoons at Lupin. We will advise you once we have completed decanting the sewage lagoons.

Regards.

Karyn Lewis

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Subject: RE: Recent events at Lupin Mine (2AM-LUP0914, amended)

Hello Karyn,

In order to ensure we're not overlooking any details, I'll copy and paste from the original documents:

As per the September 8 2014 Inspector's Direction:

- "1. ...to immediately decant the Lower Sewage Lagoon and maintain the facility at a level that is consistent with safe operation. No new waste is to be deposited to the facility. This shall be carried out in compliance with Part E Items 4 and 8 of the expired Licence and until such time as a new licence is issued.
- 2. A geotechnical inspection is to be conducted of the Upper and Lower Sewage Lagoon. The engineer's report is to be submitted to the Nunavut Water Board and to the Inspector by October 31 2014, accompanied by a plan and timelines to implement the engineer's recommendations. Any repairs required are to be carried out without delay."

Thus, the 2014 Direction requires that the repairs to the facility be carried out prior to use. No repairs were recommended to the upper dam; only to the lower dam. It was not undertaken in 2014, which necessitated further direction in 2015.

As per the July 22 2015 Inspector's Direction:

"The sewage lakes may only be utilized:

a) once the recommendations in Part 4, paragraph 2 of the 2014 Sewage Pond Dams Geotechnical Inspection_1CL008_002_PMH_AT_20141020 with respect to the Lower Dam have been carried out; b) the effluent levels within those lakes is decanted to allow operation within the limits contained Part E of water licence 2AM-LUP0914; AND,

c) the September 8, 2014 Inspector's Direction is subsequently revoked."

Unauthorized discharges from this facility have been documented since 2012 and it is now time to fix the problem, properly and completely. My expectation is that the full suite of recommendations given by Mr. Tong are implemented: immediately to the lower dam, and, if it should prove necessary, to the upper dam prior to the end of this field season.

In order to revoke the 2014 Direction, you are correct that AANDC requires confirmation that LMI's work on the lower sewage lagoon complies with the recommendations from the 2014 Sewage Dam Inspection report. Thank you for providing a potential solution. I would ask that while on-site, Mr. Tong again re-assess both the lower and upper dams. I am still working on the inspection report from July, however, while we were there I noted that the upper dam showed tension cracks that were not in evidence in 2014. So, it would

probably be easiest if you have him assess it while he's on-site, rather than having to return at a later date, causing potential further delays.

Following the inspection, I would ask that you provide Mr. Tong's report, certified and unedited, that we may review it. Also, if you would like to expedite the process, you may authorize Mr. Tong to correspond directly with me or my representative, so that any questions we have may be answered more quickly. I will do my best to ensure that it is reviewed as soon as possible at our end. When we are satisfied with the work and the information provided, LMI will be notified that the Direction is revoked and the facility may be put into service.

AANDC will follow up with an on-site inspection as indicated in my last correspondence. However, a quick turn-around of Mr. Tong's report and/or direct discussion with Mr. Tong may provide enough information to revoke the Direction prior to the site visit. We all hope to reach a resolution to this issue as soon as possible.

Thank you,

Eva Paul

Water Resources Officer | Agent des ressources en eau

Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada

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We look forward to continuing to work with you on this important matter.

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Phyllis Beaulieu <phyllis.beaulieu@nwb-oen.ca>

[Licensing] RE: Recent events at Lupin Mine (2AM-LUP0914, amended)

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Eva Paul <Eva.Paul@aandc-aadnc.gc.ca>

Fri, Jul 31, 2015 at 11:41 AM

To: Karyn Lewis klewis@elginmining.com, Patrick Downey cpdowney@elginmining.com
Cc: Erik Allain klewis@elginmining.com, "Cavanagh <a href=

<ckowbel@lawsonlundell.com>, "licensing@nwb-oen.ca" <licensing@nwb-oen.ca>

Hello Karyn,

In order to ensure we're not overlooking any details, I'll copy and paste from the original documents:

As per the September 8 2014 Inspector's Direction:

- "1. ...to immediately decant the Lower Sewage Lagoon and maintain the facility at a level that is consistent with safe operation. No new waste is to be deposited to the facility. This shall be carried out in compliance with Part E Items 4 and 8 of the expired Licence and until such time as a new licence is issued.
- 2. A geotechnical inspection is to be conducted of the Upper and Lower Sewage Lagoon. The engineer's report is to be submitted to the Nunavut Water Board and to the Inspector by October 31 2014, accompanied by a plan and timelines to implement the engineer's recommendations. Any repairs required are to be carried out without delay."

Thus, the 2014 Direction requires that the repairs to the facility be carried out prior to use. No repairs were recommended to the upper dam; only to the lower dam. It was not undertaken in 2014, which necessitated further direction in 2015.

As per the July 22 2015 Inspector's Direction:

"The sewage lakes may only be utilized:

- a) once the recommendations in Part 4, paragraph 2 of the 2014 Sewage Pond Dams Geotechnical Inspection_1CL008_002_PMH_AT_20141020 with respect to the Lower Dam have been carried out;
- b) the effluent levels within those lakes is decanted to allow operation within the limits contained Part E of water licence 2AM-LUP0914; AND,
- c) the September 8, 2014 Inspector's Direction is subsequently revoked."

Unauthorized discharges from this facility have been documented since 2012 and it is now time to fix the problem, properly and completely. My expectation is that the full suite of recommendations given by Mr. Tong are implemented: immediately to the lower dam, and, if it should prove necessary, to the upper dam prior to the end of this field season.

In order to revoke the 2014 Direction, you are correct that AANDC requires confirmation that LMI's work on the lower sewage lagoon complies with the recommendations from the 2014 Sewage Dam Inspection report. Thank you for providing a potential solution. I would ask that while on-site, Mr. Tong again re-assess both the lower and upper dams. I am still working on the inspection report from July, however, while we were there I noted that the upper dam showed tension cracks that were not in evidence in 2014. So, it would probably be easiest if you have him assess it while he's on-site, rather than having to return at a later date, causing potential further delays.

Following the inspection, I would ask that you provide Mr. Tong's report, certified and unedited, that we may review it. Also, if you would like to expedite the process, you may authorize Mr. Tong to correspond directly with me or my representative, so that any questions we have may be answered more quickly. I will do my best to ensure that it is reviewed as soon as possible at our end. When we are satisfied with the work and the information provided, LMI will be notified that the Direction is revoked and the facility may be put into service.

AANDC will follow up with an on-site inspection as indicated in my last correspondence. However, a quick turn-around of Mr. Tong's report and/or direct discussion with Mr. Tong may provide enough information to

revoke the Direction prior to the site visit. We all hope to reach a resolution to this issue as soon as possible.

Thank you,

F.va Paul

Water Resources Officer | Agent des ressources en eau Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada Nunavut Regional Office | Bureau régional du Nunavut Building 969, PO Box 2200 | Édifice 969, CP 2200 Igaluit, NU X0A 0H0

Phone | Tél. : 867-975-4548 Cell | Mobile: 867-222-6490 Fax | Téléc. : 867-979-6445 Eva.Paul@aandc-aadnc.gc.ca

>>> Karyn Lewis <klewis@elginmining.com> 7/30/2015 7:54 PM >>>

Eva,

Thanks for your email. We agree with you that we should be focusing on working together to reach a satisfactory conclusion. While we disagree with a number of statements in your email, we find that there is little to be gained by debating these points. We suggest it would be more productive for us to meet and discuss some of those issues in person at some future date after this summer's field season.

We wish to confirm our next steps with you. In your email, you said AANDC requires confirmation that LMI's work on the lower sewage lagoon complies with the recommendations from the 2014 Sewage Dam Inspection report before LMI can use the facility. That work should be completed by Monday, August 3rd. We suggest that Mr. Tong, P.Eng., the author of the 2014 Sewage Dam Inspection Report, attend site to inspect the work and, subject to the results of his inspection, confirm its compliance with his recommendations. Mr. Tong is scheduled to attend site on Tuesday, August 4th and we will provide AANDC with a copy of his Lower Sewage Dam Inspection report as soon as we receive it.

We look forward to continuing to work with you on this important matter.

Karyn Lewis

Lupin Mines Incorporated

778-386-7340

From: Eva Paul [mailto:Eva.Paul@aandc-aadnc.gc.ca]

Sent: July-29-15 9:07 AM

To: Karyn Lewis; Patrick Downey

Cc: Erik Allain; Terry Sewell; Cavanagh Norm < Norm. Cavanagh@justice.gc.ca; Christine Kowbel;

licensing@nwb-oen.ca

Subject: Recent events at Lupin Mine (2AM-LUP0914, amended)

Hello Karyn,

I am writing as a follow-up to the recent July 14, 2015 inspection, and to your e-mail below of July 24:

I have been conducting compliance inspections at Lupin Mine since 2012, and have issued inspection reports following each inspection that identified non-compliance with the water licences. While I have made numerous attempts to accommodate LMI's difficulties in meeting the requirements of the licences and the Act, there remains overall a failure to rectify the deficiencies that have been observed. In September 2014 I issued an Inspector's Direction that required of LMI the following:

- 1. "...Decant the Lower Sewage Lagoon and maintain the facility at a level that is consistent with safe operation. No new waste is to be deposited to the facility. This shall be carried out in compliance with Part E Items 4 and 8 of the expired Licence and until such time as a new licence is issued.
- 2. A geotechnical inspection is to be conducted of the Upper and Lower Sewage Lagoon. The engineer's report is to be submitted to the Nunavut Water Board and to the Inspector by October 31 2014, accompanied by a plan and timelines to implement the engineer's recommendations. Any repairs required are to be carried out without delay."

LMI did decant the facility in September 2014 following the issuance of the Direction.

The emergency amendment to the water licence as issued August 21, 2014 was issued to LMI for one specific purpose: "...to preserve the necessary freeboard space and maintain the integrity of the Facilities." As you are aware, I attended site on July 14 in order to determine whether compliance has been achieved with the existing licence(s) and the Direction. I found that the requirements of the licence(s) and the Direction have not been met: a) the lagoon had not been maintained at a safe level, and consequently effluent was flowing, unchecked, out of the facility; and b) the repairs recommended in the 2014 Geotechnical Inspection had not been undertaken.

Your e-mail of July 24 (below) indicates to me that perhaps we are suffering from a misunderstanding in terms of terminology. While standing on the Lower Sewage Dam on July 14, we both observed that effluent was both flowing around the side of the dam, and also trickling over a low point in the top of the dam. Your e-mail below states that "the lower sewage dam is not overtopping and there is no failure of a work", in spite of us both having seen it and in spite of having photos that demonstrate that this was, in fact, occurring. Whether it is called 'overtopping', or 'failing to contain the effluent', it is very clear that the Lower Sewage Dam is not fulfilling its intended purpose, and this constitutes a failure. You also state that "The samples weren't tested for oil & grease because we are not required to test for that...", however it is clearly listed as a requirement of Part E item 8 of the effective licence (2AM-LUP0914, amended). It is not at the discretion of the sampler to determine whether or not there is a visible sheen; that is a determination to be made by the objective analyst. Misunderstandings of this nature are far from helpful in our ongoing efforts to work together to achieve compliance within this regulatory framework.

I was relieved to receive your e-mail of July 27, which indicates that LMI is returning to site immediately to complete the discharge and the repairs to the lagoon. A follow-up inspection will be conducted in August by myself or another AANDC inspector, and attended by a Geotechnical Engineer. At this time we hope to be able to confirm compliance with the recommendations that were provided by LMI's consultant in the 2014 Sewage Dam Inspection, in order to authorize use of the facility going forward.

I also expect to return to site in September, to monitor progress with the recently issued July 22 Direction (2015-KIT002-EP) with respect to the Tailings Containment discharge. It is my sincere hope that we can reach a conclusion to these problems within the confines of the inspection process and that matters do not have to escalate any further.

An inspection report for the July 14, 2015 inspection is forthcoming.

Best regards,

Eva Paul

Water Resources Officer | Agent des ressources en eau

Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada

Nunavut Regional Office | Bureau régional du Nunavut

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Eva.Paul@aandc-aadnc.gc.ca

>>> Karyn Lewis <klewis@elginmining.com> 7/24/2015 11:48 AM >>>

Hi Eva,

Thanks for confirming that the discharge is authorized. As we observed during our joint inspection, the lower sewage dam is not overtopping and there is no failure of a work so we were very surprised that you should include that statement in your correspondence.

As we discussed during the inspection, we have been waiting for the lab work to confirm that discharge was allowed and to organize a crew. We delivered the samples to the lab on July 10th, and received the results on July 21st, and then had the results reviewed by our consultants by July 22nd. We forwarded those results to

you within a day of receiving them ourselves. We weren't able to keep a crew on standby, so we are working to get a competent crew out as soon as possible. We are taking all reasonable measures to comply with the various regulatory requirements, including the Direction dated July 22, 2015

As for oil & grease, there are no lab results. The samples weren't tested for oil & grease because we are not required to test for that, so the reference on the summary table was to the visual observation that no sheen was observed.

Karyn Lewis

Lupin Mines Incorporated

778-386-7340

From: Eva Paul [mailto:Eva.Paul@aandc-aadnc.gc.ca]

Sent: July-23-15 1:55 PM

To: Karyn Lewis

Cc: Erik Allain; Patrick Downey; licensing@nwb-oen.ca Subject: Re: Lupin - Sewage Lagoon Sample Results

Hi Karyn,

Sorry it's taken me a day to get the attachments you sent downloaded and read; the hazards of being on a mobile device. Although it's a step up from not having wireless at all, as I was without for the last couple of days. Thank you for the results, and the summary table that you attached. I don't see the lab result for Oil and Grease, although you've included it in the summary. Can you please send the report?

As you saw while we were at site on the 15th, the lower sewage dam was overtopping. I'm surprised you don't have arrangements made yet; it is still just as big a deal as it was last year when the emergency amendment was sought. Bigger, in fact, as this constitutes failure of a work. LMI needs to address this immediately. Discharge is authorized as soon as you can get there.

Eva

From: Karyn Lewis

Sent: Wednesday, July 22, 2015 10:57 PM

To: Eva Paul

Cc: Patrick Downey; Licensing Department

Subject: Lupin - Sewage Lagoon Sample Results

Eva,

Please find attached a copy of the lab results for samples from LMI's Sewage Lakes Disposal Facilities at the Lupin Mine. As the samples meet the limits for discharge as set out in paragraph 8 of Part E of our Type A Water Licence, and in accordance with your Direction, we are planning on discharging from the Sewage Lakes either later this week or early next week (as soon as we have confirmed a flight and crew). Once the date is confirmed, we will advise you.

Karyn Lewis
Lupin Mines Incorporated

778-386-7340



WATER LICENCE INSPECTION FORM

X	Original	
	Follow-Up	Report

Action Required (s.3)

Licensee				Licensee Representative						
Lupin Mines Inc.				Karyn Lewis						
Licence No. / Expiry					Representative's Title					
2AM-LUP0914(expir	ed)(am	ended)								
	Sewage Lakes discharge only to August 19, 2015									
Land / Other Authorizations				Land / Other Authorizations						
8WLC-LUP1516 (June 10, 2016)										
Date of Inspection				Inspector	•					
14/07/2015 Eva Paul										
Activities Inspected	7 0.:11:		NA:nin-	Пс			□ Baalamatian □	7 5 (*****		
						Reclamation	∑ Fuel Storage			
	<u> </u>									
Conditions: A - Ac	ceptable	(C - Concern U -	U - Unacceptable NA – Not Applicable NI – Not II			II – Not Ins	pected		
Water Use	Condition	Comment	Site Conditions		Condition	Comment	Haz/Mat Managemen	t Condition	Comment	
Intake/Screen	NA		Water Management S	tructures	U	4	Storage	Α		
Flow Measure. Device	NA		Culverts / Bridges		Α		Spills	U	8	
Source:	NA		Drainage		Α		Spill Plan	NI		
Water Use:	NA	1	Erosion / Sediment		U	5				
Recirculation (y /n)	NA		Mitigation Measure	s	U	3	Administrative			
			Reclamation Activit	ies	J	3	Records	NI		
			Materials Storage		Α		Reports	С	3	
Waste Disposal			Signage		U	6	Plans	U	7	
Waste Water	U	2					Notifications	U		
Solid Waste	Α		Monitoring				Other			
Hazardous Waste	U	3	Sample Collection /	Analysis	J	7	Inspection Reports	U	9	
							Inspector's Direction	U	10	
*The number in the comments field will correspond with specific comments provided below.										
Samples taken by Inspector: Location(s): LUP-1				water inta	ke), LUP-	-10 (TCA	Pond 2), LUP-14 (Effluer	nt from LSL)	
⊠ Yes □ No										

An inspection was conducted on July 14 2014 to assess compliance at the Lupin Mine Site with LMI's several authorizations and an outstanding Direction. Currently, the Type 'A' water licence for the Lupin Mine is expired and as such LMI had no authorization to use water or deposit waste in relation to the Mine, although the obligations in the licence persist until such time as a renewal licence is approved. In order to conduct monitoring and site management, LMI sought an Emergency Amendment to the licence (valid to August 19, 2015) in order to decant the Sewage Lakes Facility, and an Approval without a Licence (NWB 8WLC-LUP1516) in order to use water for domestic purposes and deposit human waste. Additionally, a Direction was issued on September 8, 2014 to LMI to maintain the sewage lakes at a level that is consistent with safe operation, and to implement the recommendations in the 2014 geotechnical engineer's report. LMI has not built the camp that was authorized under 8WLC-LUP1516, and were conducting day

trips only to site, as use of the water and waste facilities licensed under 2AM-LUP0914 was prohibited. Following this inspection, on

Non-Compliance with Act or Licence (s.2)

I was joined on-site by Karyn Lewis of LMI, and Mathieu Beaudouin of Discovery Mining Services.

Comments (s.1)

an additional Direction was issued (2015-KIT002-EP) to decant the TCA.

- 1. At the time of the inspection no water was being used, as no camp facilities were in operation.
- 2. At the time of the inspection, waste water (effluent) from the sewage lagoon was trickling over a compromised section of the Lower Sewage Dam, and flowing freely around the south end of the dam due to high levels within the facility and lack of repairs to the dam [see Photos 1-3]. This is a recurring issue since 2012, indicating that this facility is not being operated or maintained satisfactorily. This is contrary to the Direction issued in 2014 and to the Emergency Amendment. As the peak of freshet had passed by the time I was on site, I believe that greater flow happened prior to my arrival on-site, and may have caused the small wash-out that was in evidence (the "compromised section"). It's also possible that it was caused by ice scouring. Organic matter from within Lower Sewage Lake (LSL) was piled up at this area. LMI (or their agent) was on site July 9, 2015 in order to sample from the lagoon; notice of the extreme level in the lagoon should have been reported at that time.
- 3. A portion of the tailings remains uncovered [Photos 4-7]. Despite the high water levels from freshet and precipitation (prompting LMI to notify the Minister indicating that the facility was in imminent need of decanting), the surface area of exposed tails in the unremediated portion of the TCA that is not covered by water remained essentially unchanged from last year. Also, the exposed tails remain solid enough to walk on, and in some areas the surface is cracked and flaking. To my knowledge, no mitigation measures have been put in place to cover the exposed tailings, whether temporarily or permanently. LMI's care and maintenance plan indicates that a binding agent will be applied to the exposed tails in Cells 3 and 5. It is also noted that the diagram of the TCA provided in the 2014 Geotechnical Inspection does not show the exposed tailings; the diagram shows the whole area as either covered or underwater which is not accurate.
- 4. A) The Lower Sewage Dam was not repaired nor decanted in a timely manner, contrary to the Inspector's Direction,



SECTION 1



resulting in a failure to contain effluent within the facility. The Upper Sewage Dam long, lengthwise cracks; one appears to be greater than 0.5 m in depth. These cracks were not noted in 2014. Slumping is noted on the west side of the dam. [Photos 8-10]

- B) At the time of the inspection there remained approximately 1.5 m freeboard in the TCA Pond 2. Mr. Beaudoin indicated at the lowest point in the pond wall there was approximately 1.2 m freeboard. 1 m of freeboard is required to be maintained in the facility, and the levels have increased more than 1 m from last year. [Direction 2015-KIT002-EP was issued on July 22 to decant the TCA]. [Photo 11]
- C) My observations at the main fuel farm are contrary to those of LMI's consultant in 2014 (2014 Lupin Fuel Tank Farm Inspection). Mr. Tong observed water ponding in the main tank farm, and did not observe active seepage at the time of his visit (August 19, 2014). Conversely, I noted that one berm (the cell with two orange tanks, immediately south of the largest berm) contained no ponding water while the berms on either side of it contained significant ponded water. Further, there was a clear seepage channel at the toe of that berm, with water flowing west toward the airstrip. I did not note any other obvious source for the flow of water. [Photos 12-16]
- 5. Erosion of the Lower Sewage Dam, Upper Sewage Dam, and the Tailings Containment structures [Photo 17] was evident at the time of the inspection.
- 6. No signage identifying the monitoring stations was noted.
- 7. Mathieu Beaudouin collected confirmatory water samples on behalf of LMI during the inspection, at the same locations I sampled. I noted that he forgot to wear gloves when he began sampling at LUP-1. LMI has not adhered to the timelines as outlined in the Liquid Waste Management Plan (2013), which has contributed to delays in decanting the facilities.
- 8. No spill report has been filed for the discharge of effluent from the Sewage Lakes prior to decant approval.
- 9. Several items were not addressed in 2014 with respect to the findings of the 2014 inspection. At the time of the 2015 inspection, these requirements have not yet been addressed. They are itemized below.
- 10. The geotechnical inspection occurred on September 15, 2014. LMI had not, at the time of this inspection, implemented the recommendations from the report, despite a Direction that was issued to the company indicating that any recommended repairs were to be carried out 'without delay'. At the time of this inspection, there was a failure of the dam to contain the effluent within Lower Sewage Lake.

Non-comprehensive list – prioritized for the matters most relevant and requiring to be addressed immediately. 2AM-LUP0914:

Part B Item 14: Failure to observe the Liquid Waste Management Plan.

Part D Item 4: Failure to carry out adequate inspections of water management structures.

Part E Item 6(d): Failure to immediately address erosion of the TCA.

Part H Item 8: Failure to report an unauthorized discharge of effluent.

Part J Item 8: Failure to undertake additional monitoring as requested by the Inspector.

NWB Emergency Amendment motion 2014-P11-12-03:

To "...preserve the necessary freeboard space and maintain the integrity of the Facilities, before and/or during 2015 freshet period, in accordance with the terms and conditions of Part E, Items 8 and 10 in Licence 2AM-LUP0914 and all associated monitoring and reporting obligations."

Inspector's Direction Dated September 8, 2014:

- 1. Failure to maintain the facility at a level that is consistent with safe operation.
- 2. Failure to implement recommendations of the 2014 Geotechnical Inspection with respect the Sewage Lakes Facilities.

Nunavut Waters and Nunavut Surface Rights Tribunal Act, 2002

- 12(1) Deposit of waste in contravention of a licence.
- 12(3) Failure to report a deposit of waste to an inspector.
- 86(4) Failure to furnish information as requested by an inspector for purposes of an inspection.
- 90(1) Failure to comply with a direction.
- 90(2)(a) Contravention of a Type A licence.



SECTION 3 Comments Non-Compliance with Act or Licence Action Required

Outstanding requirements from 2014 Inspection:

- 1. Hazardous Waste Inventory August 31 2015 (As per LMI's commitment of February 23, 2015).
- 2. Sampling outside TCA: documentation and assessment showing that the material outside the TCA is esker material and not tailings report to be received by Inspector by **September 30, 2015**. Confirmation that this work has been/is being conducted and that LMI will provide the report by September 30, 2015 is requested by **August 31, 2015**.
- 3. Geotechnical inspection of Waste Containment Areas report to be received by Inspector by October 31, 2015.
- 4. Cleanup of Spill 12-306 (Satellite Tank Farm) LMI is to complete removal of contaminated material by **August 31, 2015** and provide a report to the Inspector detailing its 2015 activities by **September 30, 2015** (As per LMI's commitment of February 23, 2015).

Let it be noted that these deadlines have now been extended by a year, with the exception of no.2 which is outstanding since 2012. I am confused by LMI's approach to site maintenance and compliance issues. While last year LMI focussed on the risks to the Sewage Lakes facility, this year while the situation was much worse, there was no urgency in LMI's actions to address the overtopping and the degradation of the facility. While LMI has chosen to only visit the site for day-trips until full use of the camp is secured, this does not excuse LMI of the responsibility of carrying out any and all obligations of the licence, past inspections, and the Directions. Additionally, LMI should ensure to undertake the activities earlier than last year, in order to avoid another year's delay due to snowfall. I made it very clear to Ms. Lewis while on-site that the sampling outside the TCA was to be completed this year with no excuses. Let it also be noted that as per Part H, item 8 of the licence, any spills or imminent risk of spills/unauthorized discharges are to be reported to the inspector immediately and the Spill Contingency Plan is to be implemented.

Additional requirements for 2015 include the fulfilment of the 2014 Inspector's Direction and the recent 2015 Direction (2015-KIT002-EP) dated July 22, 2015; and full compliance with the monitoring requirements of 2AM-LUP0914, particularly with respect to both the Sewage Lakes Facilities and the Tailings Containment Area discharges. Failure to meet other requirements of the licence and approved plans will be addressed in due course.

Licensee or Representative	Inspector's Name		
-	Eva Paul		
Signature	Signature		
-	Sent electronically		
Date	Date		
-	05/08/2015		

Att: Photo Log

CC: Phyllis Beaulieu, Manager of Licensing, NWB

Erik Allain, Manager of Field Operations, AANDC

Tracey McCaie, Manager, Lands Administration, AANDC

Baba Pedersen, Kitikmeot RMO, AANDC



PHOTO LOG





Description: Compromised section of Lower Sewage Dam. Effluent was trickling over this section at the time of the inspection in the direction of the arrow. It is suspected that the flow was greater prior to the inspection. Contents of LSL are pushed onto the berm (circled area).







Description: Aerial view of Cell 3 looking roughly north. Uncovered and exposed tailings shown in outlined area. Yellow marker denotes approximate location where Photo 5 was taken.

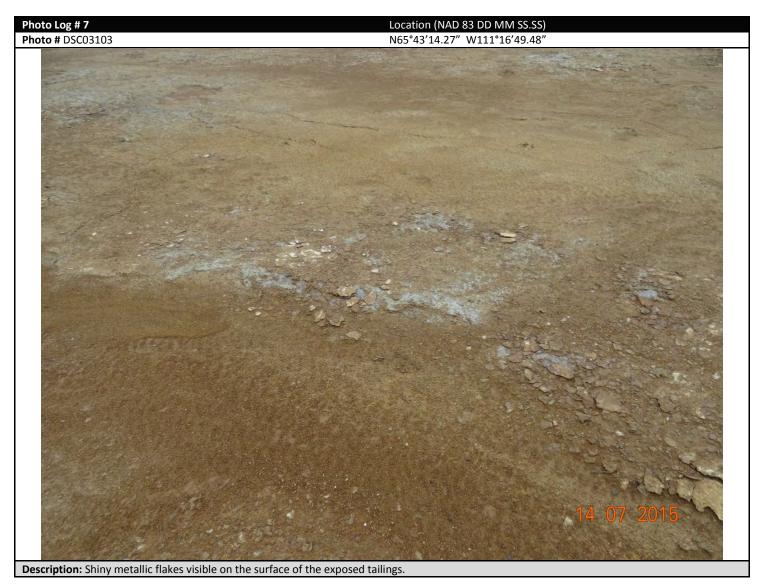




Description: View of the uncovered tailings taken from the north side near K Dam, looking south-east. Approximate location shown in Photo 4. I proceeded to walk across the tails southwards towards the water.

























Description: West berm of the fuel farm looking roughly North. Note dry cell in foreground and water ponded in the larger cell (orange reflection of tanks off water). Note the orange spray paint down-slope to the left for reference in Photos 14 and 15.



















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vancouver@srk.com www.srk.com

August 6, 2015

Project No: 1CL008.003

Karyn Lewis Lupin Mines Inc. #1204 - 700 West Pender Street Vancouver, BC V6C 2T7

Attention: Karyn Lewis

Dear Karyn:

RE: Inspector's Direction Issued on July 22, 2015

As part of the Inspector's Direction issued on July 22, 2015, specified on page 2 of the document, Measures to be Taken, second paragraph:

"LMI may accommodate up to 30 personnel at Lupin Mine as necessary to carry out the above tasks and may utilize the water facilities. However, there is an Inspector's Direction (issued September 2014) that requires LMI to maintain the facility at a level that is consistent with safe operation, and to implement the recommendations in the 2014 geotechnical engineer's report 2014 Sewage Pond Dams Geotechnical Inspection_1CL008_002_PMH_AT_20141020'. The sewage lakes may only be utilized

a) Once the recommendations in Part 4, paragraph 2 of the 2014 Sewage Pond Dams Geotechnical Inspection_1CL008_002_PMH_AT_20141020 with respect to the Lower Dam have been carried out."

The recommendations in Part 4, paragraph 2 of the 2014 Sewage Pond Dam Geotechnical Inspection Report is as follows:

"The Lower Sewage Dam is generally in stable condition with no immediate concern of major failure and breaching. Maintenance and monitoring are recommended to ensure the condition of the dam does not further degrade. LMI should consider backfilling the eroded upstream section of the dam with compacted granular material with the face armored with riprap. Additional granular fill should be placed and compacted in the southern low section of dam to create a uniform elevation crest. LMI should monitor the condition of the tension cracks to determine their rate of movement. If the monitoring results indicate the cracks are lengthening or widening, LMI should consider

U.S. Offices:				
Anchorage	907.677.3520			
Denver	303.985.1333			
Elko	775.753.4151			
Fort Collins	970.407.8302			
Reno	775.828.6800			
Tucson	520.544.3688			

Canadian Offices: Saskatoon 306.955.4778 Sudburv 705.682.3270 Toronto 416.601.1445 Vancouver 604.681.4196

Yellowknife 867.873.8670

Group Offices: Africa Asia Australia Europe North America South America

constructing a 2 m wide buttress with a 2H:1V slope to half the height of the dam with compacted granular material, downstream of failed section of dam."

A geotechnical inspection was completed by Alvin Tong, PEng, on August 5, 2015. Both of the upper and lower sewage dams are currently in stable conditions. The inspection observed that the eroded upstream section identified in 2014 was repaired with granular material, covered with geotextile, and then overlaid with some riprap armour. Additional granular material had been placed in the 2014 identified southern low section to raise the crest and match the elevation of the rest of the dam. At the time of the visit, the freeboard was observed to be around 0.5 m. The site crew have set up siphons on the lower dam to further reduce water level in the lower sewage pond.

In general terms, the 2014 recommended maintenance have been carried out. Recommended minor works to be carried out prior to the end of the field season include:

- Compaction on the placed crest fill, and
- Completions of the riprap placement over the upstream dam face at the identified areas.

Site crew has received directions and are staging to complete the work.

The 2015 Sewage Dams Inspection Report will be submitted when ready.

Key photographs for the observations at the lower dam are provided in Attachment A.

Sincerely, SRK Consulting (Canada) Inc.



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The opinions expressed in this report have been based on the information available to SRK at the time of preparation. SRK has exercised all due care in reviewing information supplied by others for use on this project. Whilst SRK has compared key supplied data with expected values, the accuracy of the results and conclusions from the review are entirely reliant on the accuracy and completeness of the supplied data. SRK does not accept responsibility for any errors or omissions in the supplied information, except to the extent that SRK was hired to verify the data.

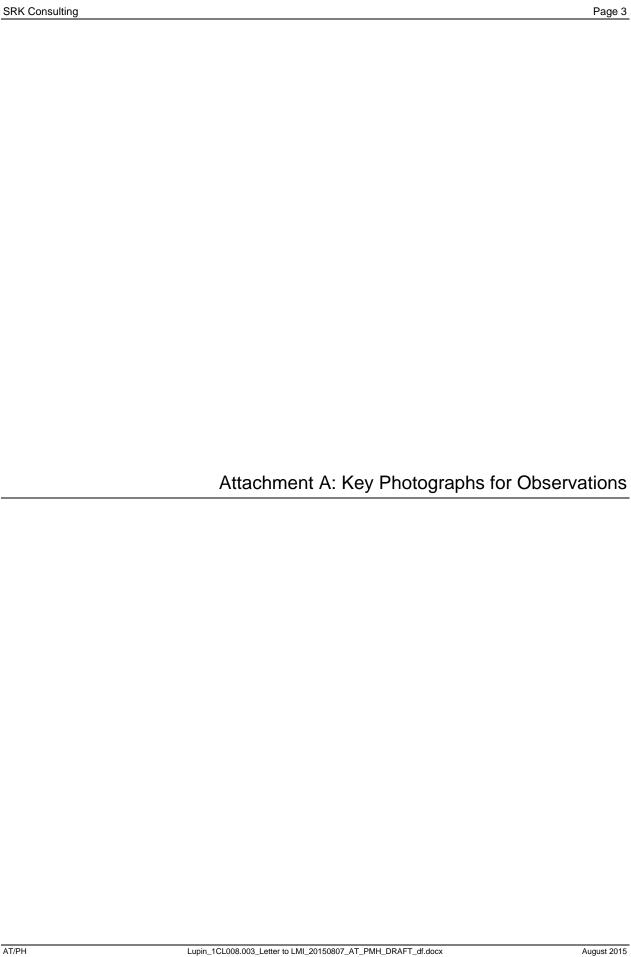




Photo 1: Looking south at the repair work complete on the upstream face on the Lower Sewage Dam along the 2014 identified southern area.



Photo 3: Looking south at the repair work complete on the southern abutment on the Lower Sewage Dam along the 2014 identified low area.



Photo 2: Looking south at the repair work complete on the downstream face on the Lower Sewage Dam along the 2014 identified southern area.



Photo 4: Looking north at the repair work complete on the upstream face on the Lower Sewage Dam. Note the siphons in background actively lowering the water level.

			Inspector's Direction Response Letter			
	srk consulting	Lupin Mine Inc.		ance Work Co ower Sewage	•	
b No:	1CL008.003					ı
, D 140.	102000.000	Lupin Mine – Sewage Dams	Date:	Approved:	Attachment:	ı
ilename:	Photo Log_Atedits_RevA.pptx		Aug. 7, 2015	AT	A.1	ı



Ida Porter <ida.porter@nwb-oen.ca>

[Licensing] Recent events at Lupin Mine (2AM-LUP0914, amended)

Eva Paul <Eva.Paul@aandc-aadnc.gc.ca>

Tue, Aug 11, 2015 at 2:46 PM

To: Karyn Lewis <klewis@elginmining.com>, Patrick Downey <pdowney@elginmining.com>

Cc: Erik Allain <Erik.Allain@aandc-aadnc.gc.ca>, Terry Sewell <Terry.Sewell@aandc-aadnc.gc.ca>, "Cavanagh Norm<Norm.Cavanagh@justice.gc.ca" <Norm.Cavanagh@justice.gc.ca>, Christine Kowbel <ckowbel@lawsonlundell.com>, "licensing@nwb-oen.ca" licensing@nwb-oen.ca>

Hello Karyn,

I acknowledge receipt of the August 6, 2015 letter from Mr. Tong of SRK Consulting (Canada) Inc. in relation to condition (a) of the Inspector's Direction dated July 22, 2015.

As described in Mr. Tong's letter, material has been added to the dam but the compaction and riprap placement has not yet taken place. Mr. Tong indicates that the observed freeboard was approximately 0.5 m at the time of inspection and that discharge is ongoing. No specific dates with respect to the completion of the required work are suggested in the report or your e-mail below.

Please provide the anticipated dates whereby the compaction/riprap work and the decant will be completed.

Regards,

Eva Paul

Water Resources Officer | Agent des ressources en eau Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada Nunavut Regional Office | Bureau régional du Nunavut Building 969, PO Box 2200 | Édifice 969, CP 2200 Iqaluit, NU X0A 0H0

Phone | Tél. : 867-975-4548 Cell | Mobile: 867-222-6490 Fax | Téléc. : 867-979-6445 Eva.Paul@aandc-aadnc.gc.ca

>>> Karyn Lewis <klewis@elginmining.com> 8/10/2015 10:24 PM >>>

[Quoted text hidden]

LUPIN MINES INCORPORATED

August 18, 2015

Aboriginal Affairs and Northern Development Canada Nunavut Regional Office Building 918, P.O. Box 100 Iqaluit, NU X0A 0H0

Attention: Eva Paul

Dear Sirs and Mesdames:

Re: Notice of Compliance to Lupin Mines Inc. ("LMI") Water Licence Inspection Form dated August 5, 2015

We write further to the water licence inspection at the Lupin mine site conducted on July 14, 2015 (the "Inspection") and the subsequent inspection report issued on August 5, 2015 (the "Inspection Report").

Sewage Lagoon

The Inspection Report states that water was observed "trickling over a compromised section of the Lower Sewage Dam", that the high water level in the lower sewage lagoon ought to have been reported to you, and that a spill report ought to have been made by LMI. In addition, the Inspection Report suggests that LMI has failed to diligently repair the dam in a timely way.

LMI has diligently inspected, maintained and repaired the sewage lagoons. First, the site conditions at the time of the Inspection did not reveal any water "trickling over a compromised section of the lower sewage dam." Please see the photographs attached as Appendix A taken during the Inspection which clearly do not show trickling over of the dam. Second, we respectfully disagree with your conclusion that a greater flow happened on site prior to your arrival. We did observe some minor seepage around the south end of the dam to an area of tundra over 2 km from any water body (see attached photos in Appendix A). A spill report is not required because it is not seeping into or anywhere near a waterbody. In addition, we note that in all previous inspections the seepage was not considered reportable by any AANDC inspector, including you. Third, as discussed at the time of your Inspection, LMI had taken steps to discharge from the lower sewage lagoon in accordance with its amendment to its Type A Water Licence and LMI was waiting for laboratory results prior to discharge.

In your email of July 29, 2015, it was stated that LMI had failed to comply with the sampling requirements of the Type A Water Licence because its lab had not analyzed the samples for oil and grease and because LMI had relied on the field observations of the sampler to determine if there was a visible sheen. We disagreed that the Type A Water Licence required the analysis that you suggested. However, we sought advice from our consultant, Steven Lines M.Sc., P.Biol., DEIA of Tunaley, Lines & Associates, who, after consulting with David Hohnstein, the

Technical Director for the Nunavut Water Board, confirmed his advice to us that lab analysis for oil and grease is not required under our licence and that it is appropriate to rely on the field observations of the sampler to determine whether or not there was a visible sheen. Please find enclosed a copy of an email from Steven Lines to LMI, copied to David Hohnstein, in which Steven Lines confirms his advice as Appendix B.

With respect to the observations pertaining to the lower sewage dam, we note that most observations noted occurred over the winter of 2014/2015. The recommendations from the 2014 geotechnical inspection were dated October 2014. The 2014 geotechnical recommendations were provided to LMI with our professional engineer's understanding and approval that the repairs would be completed during the 2015 field season. Therefore, the repairs referenced in the 2014 geotechnical report were included as part of LMI's 2015 work plan, which was the soonest that LMI could reasonably undertake the recommended repairs because of the northern climate and work conditions. As indicated in the report of Mr. Tong dated August 7, 2015, the repairs to the lower sewage dam have, in general, been completed and he has indicated the remaining repairs should be completed prior to 2015 freeze up.

In 2014, LMI was advised by the regulator that it could not discharge from the sewage ponds prior to the issuance of the emergency amendment to the Type A Water Licence (once signed by the Minister) and the 2014 Inspector's direction. LMI followed the advice of its geotechnical engineer and its past experience at this site, in decanting the lower sewage lagoon during 2014 to a level that ought to have provided sufficient space for the 2015 freshet. In order to ensure there is sufficient freeboard available for 2016 freshet, LMI will increase the freeboard available in the lower sewage lagoon before freeze-up.

Upper Sewage Dam

Our geotechnical inspector was on site at the time we received the Inspection Report. We immediately forwarded your Inspection Report to him so that he could investigate the concerns you identified respecting the upper sewage lagoon dam, including cracks, slumping and erosion.

Mr. Tong, P.Eng., has investigated those issues and he has advised us that the dams are stable, but we understand that he will be recommending some routine work to be done before the 2015 freeze-up. This work is part of our planned annual maintenance of site facilities.

In order to complete these maintenance repairs, LMI will continue to lower the level of the lower sewage lagoon. Once that discharge is complete, LMI will discharge the upper sewage lagoon into the lower sewage lagoon so that the water level is low enough in the upper sewage lagoon to complete the repairs recommended by Mr. Tong during the 2015 field season. We will advise you once the decanting is complete and once the repairs have been done.

Tailings Containment Area

LMI has seen no indication that the uncovered tailings are escaping the Tailings Containment Area and disagrees with the Inspector's assertions, both in the past and in the Inspection Report. Previous sampling information has indicated that the soil outside of the Tailings Containment Area is consistent with background samples for the site. The allegation of windblown tailing was canvassed during the technical meeting and public hearing of LMI's application for its Type

A Water Licence. Arlene Laudrum, P.Geo., FGC of SRK Consulting reviewed soil sample results for soil samples taken by AANDC. In a report dated October 29, 2014, which is filed on the Nunavut Water Board's public registry, Ms. Laudrum compared the results with the background soil quality assessment done in the Phase 1 and Phase 2 Environmental Site Assessment. The Phase 2 study determined a concentration limit which would trigger further action. Ms. Laudrum concluded that the soil samples did not exceed the concentration limit for the site pursuant to the Phase 2 study and that the soil sample did not indicate that tailings are being spread into the environment. Please see paragraph 2 under the heading "LMI's Commitments" for information regarding the sampling program this season.

Main Tank Farm

We have investigated the area of concern described in the Inspection Report. It should be noted that the levels within the tank farm berm areas have and will always remain differentiated due to the different elevations and the overall slope of the bermed areas. The area of "potential leakage" identified by the Inspector is not "leakage" – this is a discharge from the overall site drainage plan and is not originating from the bermed areas. This site drainage will continue as designed. In any event, this drainage does not flow into any waters or flow where the drainage could enter waters.

Liquid Waste Management Plan

The Inspection Report states that LMI has not complied with timelines in its Liquid Waste Management Plan. Can you please provide specifics? LMI believes it has complied with its Liquid Waste Management Plan, but if there is a specific concern, we would be pleased to reexamine our practices to ensure that we are compliant.

Signage for Monitoring Stations

The Inspection Report states that no signage identifying the monitoring stations was noted. We believe all of the required signs to be in place and do not know of any missing monitoring signs. Please find enclosed as Appendix C photographs representing a sample of the monitoring signs that are in place in accordance with the expired Type A Water License.

LMI's Commitments

We confirm that LMI remains committed to completing the following tasks at the mine site as it committed to do during renewal process for the Type A Water Licence:

- 1. Hazardous Waste Inventory will be completed by August 31, 2015.
- 2. Sampling outside the Tailings Containment Area as recommended by our consultant, SRK Consulting, and as set out in our letter dated February 23, 2015. Confirmation that the work has been done or is being done will be forwarded by August 31, 2015 and the report will be completed and provided to AANDC by December 31, 2015 (as we committed to during the renewal process for the Type A Water Licence).

- 3. The annual geotechnical inspection of the waste containment areas will be completed and provided to the Nunavut Water Board (with a copy to the Inspector) by October 31, 2015.
- 4. LMI is currently taking steps to address the contaminated material from Spill 12-306. Its consultant recently attended the site and, as the first part of the process, has sampled the material to characterize and delineate the extent of the contamination. We also understand from our expert that there is evidence the contaminated material is not migrating and that she has seen improvement over time at the site of the spill due to natural attenuation. We will continue to work with our consultant on this issue and take reasonable steps to address this contaminated material.

Yours truly,

Patrick Downey President

LMI

APPENDIX A: PHOTOGRAPHS OF LOWER SEWAGE LAGOON





APPENDIX B: EMAIL FROM STEVEN LINES, M.Sc., P.Biol., DEIA

From: slines@tlaconsultants.ca [mailto:slines@tlaconsultants.ca]

Sent: July-31-15 10:34 AM

To: Karyn Lewis Cc: 'David Hohnstein' Subject: LUP 10 and 14

Karyn,

I had a chat with Dave, who is cc'd on this email, regarding the oil and grease interpretation for the TCA and sewage lakes. As per my earlier advice to you, the 'no visual sheen' discharge criteria is based on a visual observation made in the field by the sampler. There is no requirement to send a bottle to the lab to obtain the lab's interpretation of visual sheen. It's is a determination intended to be made in the field based on observation of the facility overall, which is far more important.

I can check with the lab to see if a visual assessment on a sample is something they would even do, as I'm not sure they would make such a determination and neither Dave or myself have seen this approach before. In any case the licence is clear and only requires the field-based observation. This is standard at other projects I have worked on.

Note that the fuel storage facilities require oil and grease to be measured in addition to the visual observation for sheen.

Regards, Steve

Stephen Lines P.Biol., M.Sc.

T: 514-604-4459

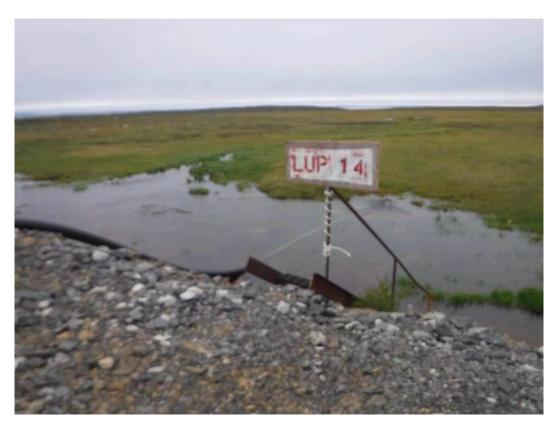
E: slines@tlaconsultants.ca



APPENDIX C: PHOTOGRAPHS OF MONITORING STATION SIGNAGE















AANDC, Nunavut District Office Box 2200 Igaluit, NU, XOA 0H0

26 August 2015

Doc #2015-KIT017-EP

Lupin Mines Inc. #1204 - 700 West Pender Street Vancouver, BC V6C 2T7

RE: LMI's August 18 Response to 2015 Inspection Report

Hello Karyn,

Thank you for your letter, dated August 18, 2015, in response to the 2015 Water Licence Inspection Report. I appreciate the efforts that are being made to achieve compliance with the water licence. To echo the sentiments expressed in your July 30 e-mail, I do believe much more common ground would be found if we discussed some of these issues rather than debating them in writing. However, for the time being there are deadlines approaching and I will do my best to respond to the points you raised in this letter. My responses below reflect the same headings as used in your correspondence, and in the case of the first subject, I refer to paragraph numbers also.

Sewage Lagoon

P.1 Effluent flowing around the south end of the dam has been observed repeatedly since 2012, and seepage through the north end of the dam was identified by LMI's geotech engineer in 2014. The Direction issued in 2014 specifically stated that the engineer's recommendations be implemented without delay. LMI did not provide a plan/timeline to implement the recommendations as was required by the 2014 Direction, and did not implement the recommendations in 2014 or early 2015 until a second Direction was issued.

P.2 The last work reported on the facility was in 2012, prior to the work that is currently being undertaken in 2015 as a result of the second Inspector's Direction. With respect to reporting requirements, please refer to the licence: As per Part H Item 8: Any unauthorized discharge of waste and/or effluent is to be reported. A 'discharge' as defined in the licence (Schedule A): release of any water or waste to the receiving environment.

P.3 Part E Item 8 lists Oil and Grease as a discharge parameter. Oil and Grease is a common parameter that is tested in the laboratory, falling in the categories of Organics or Nutrients (see the attached Field Sheet from Taiga Lab; it falls under Nutrients). However, upon further review of Lupin's documents, I note that LMI has "field observation of visual sheen" in the Monitoring Plan, and if that plan is deemed approved by the Board, I will follow that. That said, as LMI has some contractors who are not necessarily following best sampling techniques (eg-sampling with no gloves on) it might be in LMI's best interest to err on the side of caution.





P.4 The geotechnical inspection of the Sewage Lakes Facility was required as a result of the July 2014 inspection, the report for which was submitted to LMI on August 5 2014. LMI did not undertake the required inspection until after the issuance of a Direction on September 8, 2014. LMI did not implement the recommendations in 2014 or early 2015, contrary to the Direction "without delay", and failed to prevent worsening of the condition of the facility.

P.5 An Emergency Amendment to the licence (valid to August 19, 2015) existed in order to decant the Sewage Lakes Facility, and a Direction remains, issued on September 8, 2014 to LMI to maintain the sewage lakes at a level that is consistent with safe operation. LMI failed to maintain the facility in compliance with these, as observed during the July 2015 inspection.

However, it appears that the work that LMI is undertaking now in 2015 will remedy the problem for the time being and allow the Direction to be revoked. I look forward to an update on the situation.

Please note that sampling of the Lower Sewage Lagoon will be required again prior to any additional decant, given the plan to pump effluent from the Upper lagoon, and particularly if the facility is put back into service before that time.

Upper Sewage Dam

I appreciate your prompt attention to this matter. I look forward to receipt of the 2015 Geotechnical Inspection report with a schedule for implementation and a summary of work in the Annual Report.

Tailings Containment Area

This sampling was originally required as a result of the 2012 inspection and remains outstanding.

Main Tank Farm

Thank you for the clarification. Please provide a copy of the site drainage plan with the 2015 Annual Report.

Liquid Waste Management Plan

I recommend LMI review the timelines outlined in the LWMP and also the Monitoring Plan for future reference and to ensure that sampling is conducted with sufficient lead time to allow for analysis, receipt of results, and the required notifications prior to any effluent being discharged from the facility (Sewage Lakes). As effluent was discharging from the facility without authorization at the time of the inspection, the timelines had not been implemented as intended.

I am also concerned with respect to the timing of sampling and discharge from the TCA. 2AM-LUP0914 Schedule J – Conditions Applying to the Monitoring Program requires that the bioassay for both rainbow trout and Daphnia be undertaken prior to initiation of decant and the samples (presumably the results) be provided to Environment Canada. The LWMP (2013) states that "Ten (10) days prior to discharge (July) If pH is between 6.0 and 9.5, the results from the bioassay pass, and effluent quality at in Pond 2 does not exceed the limits listed in Table 3 additional steps to commencing discharge are to be undertaken." However, LMI's notice of August 13, 2015 indicates that toxicity tests will be taken when discharge from the TCA commences. Please explain how LMI will ensure that the discharge is nonacutely lethal as per the licence monitoring requirements prior to discharge commencing.





Signage for Monitoring Stations

I appreciate your attention to replacing the signage.

LMI's Commitments (Outstanding requirements from the 2014 Inspection)

1. Hazardous Waste Inventory

Please note that as per LMI's letter of February 23,2015, "LMI will include this task in its 2015 scope of work and will provide an updated inventory to the Inspector on or before August 31, 2015." Your letter of August 18 indicates that the inventory will be completed by August 31, but the expectation is that the results be reported to the Inspector by that date. Please provide the report on August 31, 2015.

2. Sampling outside the TCA

Submission of the report by December 31, 2015 is acceptable to me as long as LMI ensures to conduct the work in 2015 prior to snowfall. No assurance was provided in the August 18 letter that this work has even begun. I do anticipate that the August 31, 2015 confirmation will indicate that the work has been substantially completed in order to avoid the snowfall issues as encountered in 2014.

3. Geotechnical Inspection of Waste Management Areas I look forward to receipt of this report by October 31,2015.

4. Spill 12-306

The current August 18 correspondence does not indicate whether LMI is on schedule to address the reclamation of Spill 12-306. As per LMI's letter of February 23, 2015, "LMI intends to complete removal of contaminated material by August 31, 2015 and will provide a report to the Inspector detailing its 2015 activities by September 30, 2015". LMI has already postponed this work that was originally required to be carried out by October 31, 2014. September 30, 2015 was the date that LMI determined was feasible, and so that was the date reiterated in the 2015 inspection report. LMI is to undertake the work according to that agreed-upon schedule. Please revise your work plan accordingly.

Regards,

Eva Paul

Water Resources Officer, Kitikmeot Region Aboriginal Affairs and Northern Development Canada

Phone: 867-975-4548 Cell: 867-222-6490 Fax.: 867-979-6445

Eva.Paul@aandc-aadnc.gc.ca

Att: Taiga Field Sheet





TAIGA ENVIRONMENTAL LABORATORY LABORATOIRE ENVIRONNEMENTAL TAIGA

FIELD SHEET

4601 – 52 Avenue, P.O. Box 1500, Yellowknife, NT, X1A 2R3

Tel: (867) 669-2788 • Fax: (867) 669-2718

www.taiga.gc.ca

Batch No.: Lab use only

Send Results & Invoice to:	lifferent leastions)	Clic	ent Project No					
(Please notify if results or invoice are to be sent to different locations)			Client Project No:					
Company/Agency:								
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potable , groundwater, salt water, etc)								
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Taiga Sample ID (Laboratory use only)								
Bottle Type and Parameter	[√]	PLEASE CHE	CK PARAME	TERS REQUI	ESTED BELO	OW:		
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Individual Anions Suite □ Total Nitrite (NO ₂) + Nitrate (NO ₃) Individual Cations Suite □ Hardness (Calculated)	$NO_2 + $ Ca Mg	NO ₃ -N	$\frac{NO_2 + }{Ca}$	NO ₃ -N Na K	$NO_2 + $ Ca Mg	NO ₃ -N Na K		
Hardness (Calculated)	Hard			lness		dness		
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Laboratory use only	Rec'd: Y N		Rec'd: Y N		Rec'd: Y N	١		
Chlorine: Total, Residual	T. Cl	R. Cl	T. Cl	R. Cl	T. Cl	R. Cl		
Chemical Oxygen Demand	CO		CO	_	CC	1		
Color Turbidity	Apparent Turbi	True	Apparent Turbi	True	Apparent Turb	True		
Total Suspended Solids, Dissolved Solids	TSS	TDS	TSS	TDS	TSS	TDS		
Turbidity Total Suspended Solids, Dissolved Solids Ammonia Phosphorus: Total, Dissolved, Ortho	NI			VH_3		H ₃ -N		
		OP OP		OP OP		DP OP		
Carbon: Total, Dissolved	TOC	DOC	TOC	DOC	TOC	DOC		
Nitrogen: Total, Dissolved Visible Oil and Grease	TN Visi	DN	TN Visi	DN	TN Vis	DN		
Laboratory use only	Received: Y N		Received: Y		Received: Y			
	F	FC	F	FC		FC		
Fecal Coliforms (FC) Total Coliforms (TC), E. Coli (EC) Fecal Streptococcus (FS)	TC	EC	TC	EC	TC	EC		
Fecal Streptococcus (FS)		FS	I	FS		FS		
Laboratory use only	Received: Y N Sterile container:		Received: Y Sterile container		Received: Y Sterile containe			
Biological Oxygen Demand	BC)D		OD		
Carbonaceous BOD	СВ		СВ			BOD		
Laboratory use only	Received: Y N	T:°C	Received: Y N	N T:°C	Received: Y N	T:°C		
Please indicate if sample is preserved and/or filtered	Pres	Filt□ Pres□	Pres	Filt□ Pres□	Pres	Filt□ Pres□		
ICP-MS(1): Cd, Cr, Cu, Co, Mn, Ni, Pb,	Total	Dissolved	Total	Dissolved	Total	Dissolved		
ICP-MS(2): 25 element scan includes As	Total	Dissolved	Total	Dissolved	Total	Dissolved		
(not included: B, Bi, Hg, Sn) Individual Metals by ICP-MS								
(please circle each metal): Ag, Al, As, B, Ba, Be, Bi, Cd, Co, Cr, Cs, Cu, Fe, Hg, Li, Mn, Mo,	Total	Dissolved	Total	Dissolved	Total	Dissolved		
Ni, Pb, Rb, Sb, Se, Sn, Sr, Ti, Tl, U, V, Zn								
Laboratory use only	TM rec'd: Y N	DM rec'd: Y N	TM rec'd: Y N	DM rec'd: Y N	TM rec'd: Y N	DM rec'd: Y N		
Hexane Extractable Material (O&G)	Rec'd: Y N	Pres: Y N	Rec'd: Y N	EM Pres: Y N	Rec'd: Y N	EM Pres: Y N		
Laboratory use only BTEX, Purgeable HC (40mL x 2 vials)	BTEX	Pres: Y N Purg HC	BTEX	Pres: Y N Purg HC	BTEX	Pres: Y N Purg HC		
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Extractable HC (1L amber glass bottle) Trihalomethanes (40 mL x 2 vials) Laboratory use only	TH				TI Vial rec'd: Y N			
Extractable HC (1L amber glass bottle) Trihalomethanes (40 mL x 2 vials)	Vial rec'd: Y N	Ext rec'd: Y N	The Vial rec'd: Y N					

HOW TO FILL OUT THIS FORM

The full, legal company name. Company/Agency

Address Full street address including suite or

number, if applicable. unit Final reports will be sent to this

address.

City/Town City or Town

Province/Territory Province or Territory

Postal Code Postal Code

Phone Full telephone number, including area

code and extension, if applicable

Fax Facsimile number

E-mail E-mail address, if available

Signature of the individual filling out Signature

the form

Client Project No This information will appear on the

final analytical report

Date Collected Enter the date(s) that the samples were

Time Collected Enter the time(s) the sample(s) were

collected in military time or note if it is

a.m or p.m

The name of the individual who Sampler

collected the sample

Location The general location of where the

samples were collected

Rush Required Indicate if regular or Rush turnaround

time is required. Check yes only if Rush is required, no if not.

Sample Type Identify the sample matrix (freshwater,

drinking water, soil, etc)

Client Sample ID Identify each submitted sample. This

identification will appear on the

analytical report.

Test Column Check off the tests you require for

each sample submitted.

IMPORTANT INFORMATION

Turnaround time

Standard turnaround time is 10 business days. Please note that turnaround time delays may occur if the Field Sheet is incomplete or incorrectly filled

RUSH analysis

Rush turnaround time is 5 business days. All samples received at the lab are analyzed on a 'first come, first serve' basis unless otherwise specified as Rush. Rush samples will be place in the front of the line and analyzed prior to routine samples. A premium charge of 100% shall be charged for the analysis. Rush services depend on staff availability, analysis required, and capabilities of the lab. Please contact the lab prior to requesting this

Sample Receipt, Custody, and Storage

All submitted samples remain the sole property of the client and may be returned to the client for appropriate storage or disposal at the discretion of Taiga Environmental Laboratory.

All submitted samples will be stored for 30 days from the date the final report is printed. Arrangements can be made to hold the samples for an extended time at a nominal fee.

Sampling Supplies

Sample bottles, preservatives, labels, and forms are available at no cost when requesting services. To place a bottle order, please submit a Bottle &/or Preservative Order Form a minimum of 48 hours in advance. Please note the shipment of Dangerous Goods may be delayed due to availability of qualified airline agents to process the paperwork.

Shipping Charges

All shipping costs are the responsibility of the client.

Confidentiality

All data and reports are considered confidential and the property of the client. No information shall be released to others without documented approval from the client.

Limit of Liability

Although every care and precaution is taken in the performance of our services, our liability for loss or damage in all circumstances is limited to re-analysis of the sample(s) at our expense or the cancellation of charges.

Taiga Environmental Laboratory reserves the right to refuse to proceed with an analysis if the lab does not have the capability and /or resources to meet analysis requirements, including facilities and equipment, scientific expertise, analytical capabilities, staff scheduling, Assurance/Quality Control specifications, and report.

Parameter Group		Marking	Preservative	Instructions		
•	Routine	GREEN	Keep Cool at 4°C	Rinse bottle three (3) times with sample. Fill to top and cap bottle		
•	Nutrients	BLACK	Keep Cool at 4°C	2. Fill to top and cap bottle		
•	Biochemical Oxygen Demand (BOD)/Carbonaceous BOD (CBOD)	PURPLE	Keep Cool at 4°C	 Rinse bottle three (3) times with sample. Fill to top and cap bottle. Sample must be sent to the lab within 24 hours of collection. 		
******	Microbiological	STERILE	Sodium Thiosulphate Keep Cool at 4°C	 DO NOT RINSE BOTTLE. Fill to top and cap. Sample must be sent to the lab within 24 hours of collection. 		
•	Total Metals	RED	5mL of 1:3 nitric acid in Red-dot vial	 Rinse bottle three (3) times with sample. Fill to near the top. Add contents of preservative vial. Cap bottle and mix. 		
•	Dissolved Metals	RED	5mL of 1:3 nitric acid in Red-dot vial	 Filter sample with 0.45um Cellulose Acetate filter. Rinse bottle three (3) times with filtrate. Fill to near the top. Add contents of preservative vial. Cap bottle and mix. 		
•	Hexane Extractable Material (HEM)	YELLOW	4mL of 1:3 sulphuric acid in Yellow Dot vial	1. DO NOT RINSE BOTTLE. 2. Fill to shoulder of bottle. 3. Add contents of preservative vial. 4. Cap bottle and mix.		
	BTEX, THM & Purgeable Hydrocarbons	40 mL CLEAR GLASS W/WHITE LID	Keep Cool at 4°C	DO NOT RINSE BOTTLE. Fill vials completely leaving NO air bubbles.		
Ô	Extractable Hydrocarbons	1L AMBER GLASS WITH WHITE LID	Keep Cool at 4°C	1. DO NOT RINSE BOTTLE 2. Fill to top and cap		
•	Cyanide, Total and WAD	BLUE	1mL of 6N sodium hydroxide solution	Rinse bottle three (3) times with sample.		
•	Thiocyanate	ORANGE	2mL 25% sulphuric acid; or keep cool At 4°C	2. Fill to near the top of container.3. Add contents of preservative vial.		
•	Phenol	YELLOW with P	2mL of 20% sulphuric acid	4. Cap bottle and mix.		

September 8, 2015

Doc #2015-KIT018-FP

Patrick Downey Lupin Mines Inc. #1204 - 700 West Pender Street Vancouver, BC V6C 2T7

RE: Revocation of Aboriginal Affairs and Northern Development Canada (AANDC) Inspector's Direction, pursuant to 87(1) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSRTA), dated September 8, 2014 issued to Lupin Mines Inc.,

AND: Update on compliance with Inspector's Direction dated July 22, 2015

Background

An Inspector's Direction dated September 8, 2014 was issued to Lupin Mines Inc. (LMI) requiring decant, inspection, and repairs of the Sewage Lakes facility at Lupin Mine. LMI was Directed:

- 1. ...to immediately decant the Lower Sewage Lagoon and maintain the facility at a level that is consistent with safe operation. No new waste is to be deposited to the facility. This shall be carried out in compliance with Part E Items 4 and 8 of the expired Licence and until such time as a new licence is issued. [and that]
- 2. A geotechnical inspection is to be conducted of the Upper and Lower Sewage Lagoon. The engineer's report is to be submitted to the Nunavut Water Board and to the Inspector by October 31 2014, accompanied by a plan and timelines to implement the engineer's recommendations. Any repairs required are to be carried out without delay.

On July 22, 2015 a second Direction [2015-KIT002-EP] was issued that allows limited use of Lupin Mine's camp facilities in order to prepare for, and carry out, the decant of the Tailings Containment Area and associated monitoring, but denies use of the Sewage Lakes facility until such time as compliance with the previously-issued Direction was achieved. LMI was Directed that:

The sewage lakes may only be utilized:

- a) once the recommendations in Part 4, paragraph 2 of the 2014 Sewage Pond Dams Geotechnical Inspection_1CL008_002_PMH_AT_20141020 with respect to the Lower Dam have been carried out;
- b) the effluent levels within those lakes is decanted to allow operation within the limits contained Part E of water licence 2AM-LUP0914; AND,
- c) the September 8, 2014 Inspector's Direction is subsequently revoked.





Current Status of the AANDC Inspector's Direction(s)

LMI contracted Mr. Alvin Tong. P. Eng., a Senior Consultant with SRK Consulting (Canada) Inc. to conduct a geotechnical inspection on September 15, 2014. On September 3, 2015 a memo from the same confirms that the required repairs have been completed and the lagoon levels have been lowered to an acceptable level: "The dams met the minimum freeboard to allow operation. LMI has provided photographs on 2 September, 2015 indicating all finishing work on both dams are completed." This memo, signed and stamped by Mr. Tong, is submitted as evidence that the work has been completed.

I have reviewed and am satisfied with the evidence provided in this matter. This correspondence is to inform LMI that LMI is now deemed to have met conditions a) and b) of the July 22, 2015 Direction [2015-KIT002-EP]. The AANDC Inspector's Direction dated September 8, 2014 issued to LMI is now revoked, to satisfy condition (c), recognizing that the work is substantially completed. LMI may therefor now utilize the Sewage Lakes facility, in compliance with Part E items 4, 7 and 8, and Part H item 8 of the expired water licence (2AM-LUP0914) in order to carry out the activities authorized by the July 22, 2015 Direction [2015-KIT002-EP].

The July 22, 2015 Direction [2015-KIT002-EP] remains in effect.

Actions Required

LMI shall operate the Sewage Lakes facility, in compliance with Part E items 4, 7 and 8, and Part H item 8 of the expired water licence (2AM-LUP0914) until such time as a new licence is in effect. Any outstanding actions ("minor finishing work") to satisfy Mr. Tong's recommendations on this facility are to be carried out "before the end of 2015's field season" as indicated in the September 3, 2015 geotechnical inspection report.

Please note that ANY unauthorized discharge of waste or effluent is to be treated as a spill in compliance with Part H item 8 (2AM-LUP0914) and is to be immediately reported and rectified.

As indicated above, the July 22, 2015 Direction [2015-KIT002-EP] remains in effect.

Should you have any questions please contact me at (867) 222-6490.

Water Resources Officer | Agent des ressources en eau

Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada

Nunavut Regional Office | Bureau régional du Nunavut Building 969, PO Box 2200 | Édifice 969, CP 2200





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CC. David Hohnstein, A/Executive Director, Nunavut Water Board Erik Allain, Manager of Field Operations, AANDC Terry Sewell, Regional Director General, AANDC Norm Cavanagh, Legal Counsel, Department of Justice Phyllis Beaulieu, Manager of Licensing, Nunavut Water Board





Ida Porter <ida.porter@nwb-oen.ca>

2AM-LUP1520 Revocation of Inspector's Direction (2015-KIT002-EP)

Eva Paul <Eva.Paul@aandc-aadnc.gc.ca>

Mon, Dec 14, 2015 at 5:22 PM

To: Karyn Lewis <klewis@elginmining.com>, Patrick Downey <pdowney@elginmining.com>

Cc: David Rochette < David.Rochette@aandc-aadnc.gc.ca>, Erik Allain < Erik.Allain@aandc-aadnc.gc.ca>, Norm Cavanagh < Norm.Cavanagh@justice.gc.ca>, Licensing Department < licensing@nwb-oen.ca>, stephanie.autut@nwb-oen.ca

Hello Mr. Downey and Ms. Lewis,

Thank you for the information provided regarding the July 22, 2015 Inspector's Direction. LMI has demonstrated compliance with the terms of this Direction and has substantially completed the work with the exception of the outstanding samples. I can certainly appreciate the logistical difficulties of collecting remote samples at this time of year.

Attached is a revocation of the Direction with the understanding that the remaining samples will be collected as soon as it is safe to do so.

Regards,

Eva Paul

Water Resources Officer | Agent des ressources en eau Indigenous and Northern Affairs Canada | Affaires autochtones et du Nord Canada PO Box 1500 | CP 1500 4923-52 St | 4923-52e Rue Yellowknife, NWT | Yellowknife, TNO X1A 2R3

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>>> Karyn Lewis <klewis@elginmining.com> 12/7/2015 7:28 PM >>>

Hi Eva,

We confirm that the discharge of TCA at Lupin has been completed. The daily discharge records are included in the attached file named LUP-10-WQ 2015.

We also confirm that in accordance with the Direction, the monitoring occurred as per the expired licence (2AM-LUP0914) and the 2015 Work Plan, dated July 16, 2015, with the exception of the final samples at LUP-22, LUP-24 and LUP-25. We have been attempting to take samples at these remaining monitoring stations since two weeks after cessation of discharge as set out in our licence and work plan. These sample sites are located near Sun Bay, approximately 2.5 -3 hour drive from the mine site. As you can appreciate, in this season, we cannot have our crew fly into the mine site by plane and drive that far from the mine site due to safety concerns. Therefore, we have had a helicopter on standby to bring the crew as close as possible to the sampling sites but have been prevented from travel by helicopter due to weather conditions. We are hopeful that the ice is now stable enough for a twin otter with skis to land on the lake, as close to Sun Bay as possible, so that we are not limited by helicopter travel restrictions. We have

continued to keep our crew on standby and remain committed to taking all reasonable steps to obtain the final samples at these three monitoring stations. We will notify you once we have been able to travel to the site and obtain the samples and we will provide you with the sample results for these three samples once we receive them.

Please find attached the dates, locations and sample results for each sample site as requested with the exception of the final sample results which we are still endeavouring to complete (see above).

Karyn Lewis Lupin Mines Incorporated 778-386-7340

From: Eva Paul [mailto:Eva.Paul@aandc-aadnc.gc.ca]

Sent: November-23-15 3:37 PM

To: Patrick Downey

Cc: Erik Allain; Karyn Lewis

Subject: Follow up to Inspector's Direction (2015-KIT002-EP)

Hello Mr. Downey,

As the new Type A licence for Lupin Mine has come into effect, I would like to rescind the current-standing Direction issued to LMI. To do so I would request the following:

- 1. Confirmation that the discharge of the TCA has been completed. Please provide daily discharge records (volume).
- 2. Confirmation that monitoring occurred as per the expired licence (2AM-LUP0914) and the 2015 Work Plan, dated July 16, 2015. Please include dates, locations, and sample results.

Please provide the above electronically by December 7, 2015.

Thank you.

Eva Paul

Water Resources Officer | Agent des ressources en eau

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>>> Erik Allain 7/22/2015 7:42 AM >>>

Mr. Downey,

Please find attached for your immediate action an Inspector's Direction issued under the authority of the

Nunavut Waters and Nunavut Surface Rights Tribunal Act.

If you have any questions or concerns regarding the requirements for compliance please do not hesitate to contact the undersigned at your first convenience.

Regards,

Erik Allain
Manager, Field Operations
Field Operations Unit
Aboriginal Affairs and Northern Development Canada
Nunavut Regional Office
P.O. Box 100
Iqaluit, Nunavut X0A 0H0
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2AM-LUP1520 REVOCATION OF INSPECTORS DIRECTION OF July 22 2015.pdf 130K

December 14, 2015

Doc #2015-KIT022-EP

Patrick Downey Lupin Mines Inc. #1204 - 700 West Pender Street Vancouver, BC V6C 2T7

RE: Revocation of Direction [2015-KIT002-EP], issued to Lupin Mines Inc. on July 22, 2015 pursuant to 87(1) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSRTA)

Background

An Inspector's Direction dated July 22, 2015 was issued to Lupin Mines Inc. (LMI) to mitigate the risk of failure of, or damage to, the Tailings Containment Area (TCA) by way of treating and decanting the facility, and to implement the associated monitoring program.

LMI was directed to:

- 1. Immediately take the steps necessary to mitigate the risk to the TCA and to the environment. [To be carried out in compliance with Part E of the expired 2AM-LUP0914 licence, the 2013 Liquid Waste Management Plan, and the 2015 Work Plan submitted to AANDC on July 16, 2015.]
- Implement fully the monitoring program as described in 2AM-LUP0914 (expired) with respect to the discharge (Stations LUP-10, LUP-20, LUP-21, LUP-22, LUP-24, and LUP-25) as identified in step 10 of the Work Plan.

The Direction also permitted limited use of Lupin Mine's camp facilities in order to prepare for, and carry out, the decant of the Tailings Containment Area and associated monitoring, but denied use of the Sewage Lakes facility until such time as compliance with a 2014 Direction was achieved.

Current Status of the AANDC Inspector's Direction(s)

The 2014 Direction was revoked on September 8, 2015, allowing use of the Sewage Lakes facility.

I have received confirmation that the TCA decant has been completed and LMI has provided discharge records and monitoring results demonstrating that it was carried out in compliance with the Direction and the Licence.

I have reviewed and am satisfied with the evidence provided in this matter. This correspondence is to inform LMI that LMI is now deemed to have met the conditions of the July





22, 2015 Direction [2015-KIT002-EP] and the Direction is now revoked.

Actions Required

Acknowledging the logistical and safety challenges at this time of year, final samples for LUP-22, LUP-24 and LUP-25 are to be collected as soon as it is safe to do so, and the results forwarded upon receipt.

Should you have any questions please contact me at (867) 222-6490.

Eva Paul

Water Resources Officer | Agent des ressources en eau Indigenous and Northern Affairs Canada | Affaires autochtones et du Nord Canada Nunavut Regional Office | Bureau régional du Nunavut Building 969, PO Box 2200 | Édifice 969, CP 2200 Igaluit, NU XOA 0H0

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Stephanie Autut, Executive Director, Nunavut Water Board CC. David Rochette, Regional Director General, AANDC Erik Allain, Manager of Field Operations, AANDC Norm Cavanagh, Legal Counsel, Department of Justice Karén Kharatyan, A/Manager of Licensing, Nunavut Water Board

