



Aboriginal Affairs and
Northern Development Canada

Affaires autochtones et
Développement du Nord Canada



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**Lupin Mines Incorporated
Lupin Mine Project
Type 'A' Water Licence Renewal
Application**

Nunavut Water Board Public Hearing
Community Meeting
Kugluktuk, Nunavut
February 4, 2015

**Uyagakhiuktit Lupin Kuapaliisit
Uyagakhiuktit Lupin Havaahak
Naunaiyakhimayut 'A' Immak
atugiangani Uuktuut**

Nunavut Immap Mikhaanut Katimayiit Inuknut
Tuhaktitinahuat
Nunalaami Katimapkaiyut
Kugluktukmi, Nunavut
February 4, 2015mi

Canada 



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1. Role and Responsibilities

- Manage federal public land
- Manage freshwater resources
- Participate in water licence reviews
- Inspect and enforce water licences

1. Havaahat imaalu Munagiyahat

- Munaginianut kavamakyuap tigumiyait nunat
- Munaginianut takyuitgumi immat
- Ilaunik immap laisihat kimilgukniit
- Kunniaknii imaalu ihuahipkailutik immap laisiinut



2. Contributions to Review

- Completeness review (June 9, 2014)
- Technical review (August 14, 2014)
- Teleconference with LMI (October 16, 2014)
- Technical Meeting / Pre-Hearing Conference (October 22-23, 2014)
- Teleconference with LMI (November 24, 2014)
- Letter to the Nunavut Water Board (December 4, 2014)
- Final written submission (January 5, 2015)

2. Ilauyuhat mikhaanut Kimilguinianut

- Initiakhimayuk kimilguknik (June 9, 2014)
- Uuktutiakhimayut kagitauyakut kimilguknik (August 14, 2014)
- Talafuukut ukakatigilugu LUUPIN (October 16, 2014)
- Katimanik mikhaanut Uuktutiakhimayut kagitauyakut / Katimapkaitinatik Tuhaktitiyaamingni Hivayautikut Katimalutik (October 22-23, 2014)
- Talafuukut ukakatigilugu LUUPIN (November 24, 2014)
- Titigakhutik Nunavut Immap Mikhaanut Katimayiitut (December 4, 2014)
- Kingulikpaak Titigakhimayuk Tuniyakhaktik (January 5, 2015)



3. Final Review Comments

LMI submitted additional information to support the application in December 2014, including:

- **Fuel inventory** – quantities were provided for fuel tanks but the quantity for other fuel storage vessels (i.e. barrels) remains unknown. LMI will provide this in 2015.
- **Landfarm Management Plan** – while it is sufficient as a preliminary plan, more detail is required in a final plan prior to construction of a landfarm.

3. Kinguliikpaat Kimilguknianut Kiujutit

LUUPIN tunihyut aalanik tuhaktahanik ikayugiangani uuktutimingnut talvani December 2014, ilagilugulu:

- **Ukhukyuakaknik** – aktilaahat ilihimapkaiyut ukhukyukavikhanut kihimi kaffiuniagiahainik aallat ukhukakvihainik (kattakyuit) ilihimangitavut huli. LUUPIN ilihimapkainiakkut 2015mi.
- **Ukhukyuakakvik Kanuk Munagiyauniaknianut Ihumagiyaat** – huli ihuaktilugu talvani havaahami haja, hivituyumik titigaknik piyuhauyugut havaahainut havaliktinagu ukhukyuakakvihamik.



3. Final Review Comments

- **Interim Abandonment and Restoration Plan (IARP)** – the erratum is acceptable but the IARP will need to be updated 90 days after licence approval.
- **Revised Reclamation Cost Estimate** – the existing financial security is insufficient to cover the highest reclamation liability on site and a significant increase is recommended. Deficiencies were identified in our final review and outstanding information was requested prior to the Public Hearing. LMI believes that the estimate is complete and meets all requirements.

3. Kinguliikpaat Kimilguknianut Kiujutit

- **Hajainak Kimaktaukpat imaalu Nuna Utiknahuaklugu Ihumaginik (IARP)** – tamna titigaktautiakhimayauhimayuk nakuuyunik kihimi IARP nutaanguktauniaktuk 90 uplut naatinngit angiktaunianit laisip.
- **Nutaangukhimayut Akihaa Nuna Utiknahuaknianut** – haja mannik tutkukhimayaat naalimaitaa akihaa nuna utiknahuakniaklugu naugaani imaa angiyumik angiklilaakuyakkut. Ihuakhaktahat naunaiyakhimayut kingulikmi titigapta imaalu havaktauhimaitut tuhaktahat inniktiktahauyut katimapkaitinatik. LUUPIN ukpikhimayut taamna mannik atuktuhak innikhimayuk imaalu tugaaktahatik tikihimaliktatik.



3. Final Review Comments

Final review comments and recommendations regarding the water licence application were presented in the following themes:

- **Windblown Tailings** - evidence is required on whether windblown material is tailings. A study is proposed for 2015 but a study framework is required prior to licence issuance to ensure that parties agree with the proposed methodology.

3. Kinguliikpaat Kimilguknianut Kiujutit

Kinguliikpaat Kimilguknianut Kiujutit imaalu atukuyauya at tugaakhugu laisikhak immak atugiangani uutuuataa titigakhimayuk imaa:

- **Anugip Titkattakthimayait uyagakhiuknip ilakuit** - uuktukhimayumik takuyumayugut annugip titkattakthimayaahaita kuvigakviknit. Kunniaktauyaangani 2015mi ukaalautihimaliktugut kihimi kunniaktaujutihap naunaitkutait inniktauyuhak laisi tunniyautinagu ikkayugiangini angikatigiit kanuk hivumuungniagiahaita kanuklu havakniagiahaani.



3. Final Review Comments

- **Porewater Quality Monitoring** – porewater quality monitoring was requested. LMI commits to monitoring porewater levels and surface water quality but not porewater quality.

3. Kinguliikpaat Kimilguknianut Kiujutit

- **Uyagakhiugaangamik imak uuktuktauvaktuk nakuunianut uuktuktaukatianianut –** Uyagakhiugaangamik imak uuktuktauvaktuk nakuunianut uuktuktaukatianianut atukuyauyuk. LUUPIN angiktut munaginiaklugu uuktukattaaklugit immap ittilaangit imaalu immap kaanga naamakpagiahaanut kihimi kunniagunaitait immap nakuunia titigaktauhimanianit.



3. Final Review Comments

- **Hazardous Waste Management**
 - A current inventory of hazardous waste was requested in July 2014 and this has not yet been provided. A requirement to submit an inventory prior to the 2015 seasonal shutdown is recommended.
 - A restriction to the amount of hazardous waste stored on site is requested to ensure that reclamation liability of the site does not fall to Canada.
 - A requirement for regular removal of hazardous waste is required to prevent the accumulation of these materials on site.

3. Kinguliikpaat Kimilguknianut Kiujutit

- **Aaniaknaktut Ikkakut Munaginianut**
 - Nutaamik titigakmik hivitutlaangani aaniaknaktut ikkakut atukuyauhimayuk July 2014mi haja piyuitakkut. Ukaalaktauyuhait itigakhimayumik tunniyuhait hunauyaahaita aanniaknaktut ikkakut ummiktiktinagit 2015mi.
 - Kiklikaklugit tutkuktigitaakniit tapkuninga aaniaknaktut ikkakuutuhanik nayugaini appihuuktugut kakugungukkat Kanata halummaktigitailiyaangani.
 - Aulautivaktahait ukakhimayuhauyuk kakugungugaikpat tahapkunanik aaniaknaktut ikkakut amigaikpalaaktailiyaangini nunami.



3. Final Review Comments

- **Management Plans** – updated plans are requested within 90 days of licence approval to include information provided throughout the application process.

3. Kinguliikpaat Kimilguknianut Kiujutit

- **Atanguyat Havaahait** – nutaangukhimayumik titigakhimayunik piyuhauyugut 90 uplut naatpata laisip angiknianiit ilauyuhat nutaat tuhaktahauyut hivitutiniani uuktuknigup laisihamingnik.



3. Final Review Comments

- **Care and Maintenance** – thresholds during different activity levels were requested. LMI agrees that monitoring frequencies may be adjusted during ramp-up and care and maintenance. LMI proposed similar monitoring frequencies for ramp-up and care and maintenance even though they propose to use 100X more water, accommodating more people, and producing more waste during ramp-up.

3. Kinguliikpaat Kimilguknianut Kiujutit

- **Munaginik unalu Ihuakhaktaunik** – kiklikaknihanik havaligaikpata aalamik takuyumayavut apikhihimaliktugut. LUUPIN angiktut imaaguuk takuyaktukattakpakniaktut tatkihhiutit naililaaklugit umiktiligumik imaalu munaginianit unalu Ihuakhaktaunik. LUUPIN ukakhimayut uuktutimingni aajikutavyamik munaginianut hivitutillaanganut umiktiligumik munaginia unalu Ihuakhaktaunia kihimi titigakhimayut atugumayaktik immak aaktillaanga atuktahaktit titigakkaakhimayaktik avatkutumayaat 100 x titigaktamiknik, inugiakhiyuumikniakmanguuk, imaalu atukhimayuk immak kuviniakmat umiktiligumik.



3. Final Review Comments

- **Progressive Reclamation** – progressive covering of exposed tailings was recommended and LMI confirmed that they will not cover exposed tailings until final closure. Evidence is required to confirm that tailings are not blowing out of the facility before concluding that covering of the exposed tailings is not required.

3. Kinguliikpaat Kimilguknianut Kiujutit

- **Nuna uttiknahuaknia hivuliktut kayumiitumik** – havagalilugu haulugu tahapkua takunaktut kuvigakviit ukakhimayugut imaalu LUUPIN naunaiktaat taamna hauyunaitaat kuvigakvik uyagakhiugunaigumik taimaakpiaklugu. Takuyumayugut angiktauluni tahapkua kuvigakviit titkatangittut hilataanut iklukpaup ihumaliuktinahi taamna hauyagiittuk kuvigakvik.



3. Final Review Comments

AANDC submitted additional comments in their Final Submission (January 5, 2015) regarding:

- **Acid Generating Waste Rock** – a detailed waste rock characterization study was recommended. LMI agrees that additional studies will be required.

3. Kinguliikpaat Kimilgukniantut Kiujutit

AANDC tunihimayut Aalaniklu Kiujutit talvani Kingulikpaami Titigaktamingni (January 5, 2015) mikhaanut:

- **Uutiknaktumik Hanataaktuk Atugunaituk Uyagak–**
kimilgutiakhimayumik atugunaituk uyagak hunauyaahaanik kimilguknik atukuyauhimayuk. LUUPIN angiktut aalanik uuktuktahauyugut kimilguknik atuklugu.



3. Final Review Comments

- **Asbestos** – an investigation to confirm there is no asbestos on site was recommended. LMI confirmed asbestos was identified in 2006. LMI claim that remediation is included in the reclamation estimate but this needs to be specifically identified.

3. Kinguliikpaat Kimilguknianut Kiujutit

- **Issaliisini utukkakni ittut taivagaat Aspestasmik** – uuktukuyauhimayut talvani aspestasmik pakittinahuaklutik nayugaani. LUUPIN titigaktut aspestasmiguuk pakkittiyut 2006mi. LUUPIN ukakhimaliktut talvaniguuk ihuahaktauniaktuk talvani nuna havaktaulikkat akihaanut umiktiligumik kihimi una naunaitiaktuhauyuk humiittahaita.



3. Final Review Comments

- **Updated Environmental Site Assessment**
 - A requirement to conduct an updated assessment was recommended to obtain more accurate estimates.
 - There are many uncertainties that remain (performance of tailings cover, quantity of contaminated soil, quantity of waste rock) so a requirement to conduct a site assessment in 2015 is recommended.

3. Kinguliikpaat Kimilguknianut Kiujutit

- **Nutaangukhimayuk Nuna, Immak, Hilalu Uuktuktaunia**
 - Titigakhimayuk uuktutauyuhak nuna, immak, hilalu ukagiikhimayuk naunaitiangini titigakhimayut.
 - Amigaiktut naunaitiakhimaitut huli (kaanga kuvigakviup, anginia puisikhimayuk nuna, nakuuniit tahapkua uyakkat atulimaitut) imaa piyuhat ukaliktugut kimilguklugu nayugait 2015mi.



4. Other Licensing Considerations 4. Aalat Laisihat Ihumagiyakhat

- AANDC suggested proposed changes to terms and conditions of the existing water licence for the Nunavut Water Board's consideration.
 - Commitments need to be considered prior to issuing a licence.
 - The outstanding issues need to be considered prior to issuing a licence
 - There are a number of unresolved compliance issues that need to be addressed by the company.
- AANDC ihumagikuyut aalanguktauyumayauyut angigutit ukuatlu tautukniit talvani laisiini haja atuktauyumi.
 - Angigutihat angikhimaliklugit ihumagiyahavut laisihat tuniyautinagit.
 - Tahapkua havaktauhimaitut ihumagiyauyuhat laisihamik tuniyautinagit
 - Kaffiuyungnakhiyut ihuakhakhimaitut havaktauyuhat uyagahiuktit ihuakhaktahait.



5. Conclusion

- There remain a number of outstanding issues that pose a risk to water resources. Additional information is required prior to licence renewal.
- The existing financial security is not enough to reclaim the mine site and an increase is recommended to ensure that licensee is responsible for the cost of reclamation.
- The financial security should take into account the remaining uncertainties and be adjusted accordingly.

5. Taimaaligamik Ukauhiit

- Kaffiuyungnakhiyut ihuakhakhimaitut ihumaaluutigiyavut immakmut kuvinahukkuunagiyavut. Tuhagumafaaktuhaugut kanugiliuligiahaita angiktautinagu laisihak.
- Taamna mannik tutkukhimayuk naalimaituk akihaanut utiktilikkat nuna imaa angiklilaakuyakkut taamna laisikaktuk akiliktahaa akia nunap utikniant.
- Taamna mannik tutkukhimayuk ihuakhahimayuhauyuugaluak imaa mannit akitulaanganut imaalu ihuakhilugu mikhaanut.



Koana
Thank you
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