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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

**File No.:** 2AM-LUP1520

**To:** Lupin Distribution List

**Date:** June 18, 2018

**Subject:** Pre-Hearing Conference Decision Report Regarding an Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520

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On June 17, 2019, by Motion No. 2019-08-P11-05 and 2019-08-P11-06, the Members of the Lupin Panel (P11), duly appointed by the Nunavut Water Board (NWB or Board) to consider an application submitted to the Board by Lupin Mines Inc. (LMI or the Applicant) requesting the renewal and amendment of existing Type “A” Water Licence No: 2AM-LUP1520 (the Application), approved and directed the release of this Pre-Hearing Conference Decision Report and procedural direction. This Report summarizes the NWB’s processing of the Application to date and provides guidance regarding the advancement of the Application to the next stage in the NWB’s processing of the Application, an in-person Public Hearing to be held in the community of Kugluktuk, tentatively scheduled for the week of January 13-17, 2020.

As described in detail in the text that follows, in order to facilitate the NWB’s licensing process associated with the Application, the Panel directed that, in accordance with Rule 14 of the NWB *Rules of Practice and Procedure* (the *Rules*), the staff of the NWB hold a Technical Meeting (TM) and a Pre-Hearing Conference (PHC) for the Application. As indicated in the Notice of Application, dated March 29, 2019, the TM and PHC for the Application was held in person in the community closest to the undertaking, Kugluktuk, Nunavut, on June 6 and 7, 2019. On the evening of June 6, 2019, the Board’s staff also hosted a Community Session regarding the Application. The Agendas for the TM, Community Session and PHC are attached as [Appendix A](#) to this Decision.

As set out in Rule 14.1 of the *Rules*, and as discussed in detail in Section **Error! Reference source not found.** of this Decision, the PHC dealt with the following matters relevant to the Application:

- Timetable for the Pre-Hearing exchange of information;
- Identification of interested parties;
- Submissions of interested parties;



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- List of issues to be dealt with at the Public Hearing;
- Desirability of amending the Application for the purpose of clarification;
- Procedures for the Public Hearing; and
- Identification of any other matters that may assist in the simplification and disposition of the Public Hearing.

### **Introduction and Registration**

The following parties participated in the Board’s TM, Community Session and PHC:

Lupin Mines Inc. (LMI or the Applicant), as represented by the following participants:

- Karyn Lewis, Project Manager
- Dave Hohnstein, Consultant
- Ken Bocking, Consultant
- Sara Wilkins, Consultant
- Jim McKinley, Consultant
- Alvin Tong, Consultant
- Kenny Ruptash, Consultant
- Dionne Filiatrault, Consultant (via teleconference)

Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC), as represented by the following participants:

- Godwin Okonkwo, CIRNAC Manager Water Resources
- Ian Parsons, CIRNAC Regional Coordinator
- Gerd Wiatzka, Consultant
- Alison Law, Summer Student

Environment and Climate Change Canada (ECCC), as represented by the following participants:

- Eva Walker (Yellowknife; via teleconference)
- Anne Wilson (Edmonton; via teleconference)
- Reg Ejeckam (Winnipeg; via teleconference)

The Nunavut Water Board (NWB), as represented by the following participants:

- Karén Kharatyan, Director of Technical Services
- Ben Kogvik, Director of Board Administration and Communication
- Derek Donald, Technical Advisor



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- Richard Dwyer, Manager of Licensing
- Teresa Meadows, NWB Legal Counsel

The Board also benefitted from having the Kitikmeot Inuit Association (KIA) and members of the community of Kugluktuk in attendance at the TM, Community Session, and PHC. No written questions and/or comments about the Application were provided to the NWB by the KIA or community members. The listing of attendees at the TM/Community Session/PHC held in Kugluktuk (summarized from the sign in sheets recorded at these sessions) is attached as [Appendix B](#) to this Report.

### **1.0 The Application Before the Board**

The Application being considered by the Board was filed by Lupin Mines Inc. (LMI or the Applicant) on July 27, 2018 and seeks the amendment and renewal of Water Licence No: 2AM-LUP1520, to allow for water uses and waste deposits associated with the Final Closure and Reclamation of a gold Mining undertaking<sup>1</sup> at the Lupin Mine Project (the Project), located on Crown Land in the Kitikmeot Region of Nunavut, approximately 285 kilometres (km) southeast of Kugluktuk.thank

Although the Project falls outside an area with an approved Land Use Plan in effect, as set out in the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada (Nunavut Agreement)*, the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*, S.C. 2002, c. 10 (NWNSRTA) and the *Nunavut Planning and Project Assessment Act*, S.C. 2013, c. 14, s. 2 (NuPPAA), the Nunavut Planning Commission (NPC) conducted a land use conformity assessment and on February 1, 2019, determined that the Application is exempt from screening by the Nunavut Impact Review Board (NIRB) because the Application does not seek changes to the general scope of the previously assessed project activities, and therefore, the exceptions noted in Section 12.4.3 (a) and (b) of the *Nunavut Agreement* do not apply.

### **Application and Supporting Materials Submitted by the Applicant**

On July 27, 2018, LMI submitted the Application and supporting documentation for an amendment and renewal of Type “A” Water Licence No: 2AM-LUP1520 (the Application) associated with the final closure and reclamation of the Lupin Mine Project. [Appendix C](#) provides a listing of the

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<sup>1</sup> *Nunavut Waters Regulations*, SOR/2013-69, Schedule 1, Item 2, Column 2, which describes a “Mining undertaking” as: Exploration or prospecting — including bulk sampling — for minerals other than petroleum or gas, the operation of a mine, the processing of minerals other than petroleum or gas, the restoration of the site of a mine and any other mining activity other than an industrial activity described in item 1, column 2 [of Schedule 1].



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specific information provided with the Application, all of which is available from the Nunavut Water Board’s public registry at the following link:

<ftp://ftp.nwb-oen.ca/registry/2%20MINING%20MILLING/2A/2AM%20-%20Mining/2AM-LUP1520%20LMI/>

On March 19, 2019, the Applicant provided responses to the information requests received from Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) during their completeness review of the Application.

On May 17, 2019, the Applicant provided responses to comments and recommendations made during the technical review by CIRNAC and Environment and Climate Change Canada (ECCC).

### **Scope of the Type “A” Water Licence Application**

The Lupin Mine is located on Crown Land in the western Kitikmeot Region of Nunavut, approximately 285 kilometres (km) southeast of Kugluktuk. The Application requests the renewal of the existing Type “A” Water Licence for a term of 7 years (ending in 2026), with specified amendments, including the request that the amount of water authorized to be used be increased during the active closure phase of the term to reflect final closure activities. As such, LMI requests an increase to the total daily water use to 685 m<sup>3</sup>/day (100 m<sup>3</sup>/day camp use and 585 m<sup>3</sup>/day industrial use) during closure activities. LMI indicated that following the active closure phase, LMI’s water requirements will decrease, and the total annual water use would subsequently be reduced to the levels of water use authorized under the current Licence of 5,000 m<sup>3</sup>/year.

In the Application, LMI is proposing to complete the full closure and reclamation of the Lupin Mine over the next 2.5 years, followed by 5 years of post-closure monitoring. A Final Closure and Reclamation Plan (FCRP) was submitted with the Application that details proposed activities, including the decommissioning and reclamation of the following facilities:

- **Underground mine workings** that include a ~1,200 m vertical shaft and a ramp to a depth of ~1,500 m;
- **A number of borrows and quarries** that will provide the cover material for the remaining tailings containment area (TCA) cells and will also be used for the reclamation of the other components of the Lupin Mine;
- **Waste rock** historically used across the site (and that is up to 67% Potentially Acid Generating (PAG)) will be remediated by placing it underground or covering it with esker material;



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- **A tailings containment area (TCA)** that is currently partially covered with quarry material, will be completely covered, and LMI intends to complete the placement of the cover by the end of this summer (2019);
- **A mill complex** that includes buildings which will be demolished and the rubble will be disposed of in open crown pillars or the landfill. Materials that can be economically salvaged will be consolidated and shipped off-site.
- **Other waste disposal facilities** including an incinerator, a temporary “boneyard” (for decommissioned tanks, buildings, and equipment), a solid non-hazardous waste landfill, a landfarm, two burn pits and waste oil storage.
- **Other support infrastructure** including accommodation facilities, a freshwater supply intake, arsenic treatment facility, an explosives magazine, roads and airstrips, sewage and refuse facilities, tailings pipelines, current fuel storage, and chemical storage.
- Active monitoring is planned for 2.5 years during active reclamation activities. Following the completion of reclamation work, passive monitoring is planned for an additional 5 years.

### **2.0 Procedural History**

#### **Pre-Licensing Requirements**

With respect to the Application, the following pre-licensing requirements have been completed.

On **February 1, 2019**, the Nunavut Planning Commission (NPC) issued their determination that the Project falls outside of an area with an applicable Land Use Plan, and therefore does not require a conformity assessment by the NPC. In addition, NPC determined that the Application is exempt from screening by the Nunavut Impact Review Board (NIRB) because the Application does not involve changes to the general scope of the previously assessed project activities, and the exceptions noted in Section 12.4.3 (a) and (b) of the *Nunavut Agreement* do not apply.

Previously, on June 9, 2014, the Nunavut Impact Review Board (NIRB) issued correspondence indicating that the original project proposal (NIRB File No.: 99WR053) was received by the NIRB from the NWB on July 12, 1999 and was screened by the Board in accordance with Part 4, Article 12 of the *Nunavut Agreement* (referenced at the time as the “Nunavut Land Claims Agreement” or NLCA). On November 16, 1999, the NIRB issued an NLCA 12.4.4(a) screening decision to the Chairperson of the NWB, which indicated that the proposed project had been assessed by the NIRB and should be allowed to proceed to the permitting stage, subject to the NIRB’s recommended project-specific terms and conditions. On February 28, 2008, the NIRB received an application for the renewal of the Type “A” Water Licence. The NIRB assessed the renewal application and



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determined that the application was exempt from the requirement for further screening pursuant to Section 12.4.3 of the NLCA, and on May 6, 2008 reissued the NIRB’s original November 1999 screening decision report, noting that the terms and conditions in the NIRB’s original screening decision report continue to apply to the Project.

Consequently, the NWB has concluded that the conformity and environmental assessment requirements applicable to the Application under ss. 38 and 39 of *the Nunavut Waters and Nunavut Surface Rights Tribunal Act*, S.C. 2002, c. 10 (NWSRTA) have been met and the Application can now be processed by the NWB..

### **NWB Processing of the Application**

The following includes a brief overview of the procedural history for the Application. It should be noted that the following listing captures only the major procedural steps associated with the Application. All documentation and the complete history of the NWB component of the licensing files are available from the NWB’s ftp site at the link provided in Section 1.0 of this decision.

#### **July 27, 2018**

- NWB received a Type “A” Water Licence Application for the Amendment and Renewal of Licence 2AM-LUP1520 for the Lupin Mine Project from LMI.

#### **February 1, 2019**

- NWB received the NPC Conformity Determination indicating that the project is situated outside the area of an approved land use plan, and that a review of the project by the NIRB is not required.

#### **February 5, 2019**

- NWB received summaries of the Application translated into Inuktitut and Inuinnaqtun, as well as a Compliance Assessment and Status Report from LMI.

#### **February 6, 2019**

- NWB issued correspondence requesting interested parties conduct a completeness review of the Application and provide information requests (IRs) to the Applicant.

#### **March 4, 2019**

- CIRNAC responded to the completeness review, indicating they had a number of Information Requests for the Applicant.

#### **March 19, 2019**

- LMI responded to the information Request by CIRNAC.



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### **March 25, 2019**

- CIRNAC confirmed that the level of information provided is adequate to complete full technical review of the Application.

### **March 29, 2019**

- NWB issued a “Notice of Application” for the Application, and indicated the commencement of the NWB’s 30 day technical review period.

### **April 30, 2019**

- NWB received technical review comments from CIRNAC and ECCC, and requested that the Applicant provide responses.

### **May 17, 2019**

- NWB received and distributed LMI’s responses to CIRNAC’s and ECCC’s technical review comments.

### **May 23, 2019**

- NWB distributed the draft agenda and correspondence, confirming the dates (June 6 and 7, 2019) and location (Kugluktuk) for an in person Technical Meeting and Pre-Hearing Conference (TM/PHC).

### **May 29, 2019**

- NWB received confirmation of participation and presentation documents from the Applicant, CIRNAC, and ECCC.

### **May 31, 2019**

- NWB provided the final Agenda for the TM/PHC.

### **June 6-7, 2019**

- NWB hosted the TM/PHC in the closest community of Kugluktuk, Nunavut.

## **Licence history**

The following licences were previously issued by the NWB to LMI:

- NWB1LUP0008
  - Issued to Kinross Gold Corporation on July 1, 2000, and expired on June 30, 2008.
  - Allowed for water use up to 1,700,000 cubic metres per year and waste deposit for a Mining undertaking.
  - December 20, 2001: Amendment with financial security granted.





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- April 13, 2007: Assigned from Kinross Gold Corporation to LMI.
- October 15, 2008: Emergency amendment to extend expiry date to March 31, 2009.
- 2AM-LUP0914
  - Issued to LMI on February 25, 2009, and expired on March 31, 2014.
  - Allowed for water use of up to 1,700,000 cubic metres per year and waste deposit for a Mining Undertaking.
  - May 25, 2009: Amendment related to monitoring granted.
  - August 20, 2014: Emergency amendment granted allowing for discharge of effluent from specific facilities that meet licence requirements.
- 2AM-LUP1520
  - Issued to LMI on August 19, 2015, and expires on August 18, 2020.
  - Allowed for water use of up to 5,000 cubic metres per year during care and maintenance, and 500,000 cubic metres per year during transition phase, as well as waste deposit, for a Mining Undertaking<sup>2</sup>.
  - March 28, 2017: Amendment to increase security and define reclamation requirements issued.
  - April 18, 2018: Amendment to decrease security issued.
  - December 21, 2018: Amendment to decrease security issued.

### **3.0 Technical Review Comments Received by the Board**

Prior to the Technical Meeting and Pre-Hearing Conference (TM/PHC), two opportunities for comment on the Application were provided to interveners and members of the public. The Board's first request for comments requested parties to consider whether the Application was complete and to identify any outstanding issues that should prevent the Board from continuing to process the Application, including identifying any additional information requests. This comment period closed on March 4, 2019. The second comment period commenced with the issuance of the Notice of Application on March 29, 2019 and requested parties to file substantive technical review comments by April 30, 2019.

The sections that follow briefly outline the comments provided during these comment periods, but also reflect comments provided by parties and Board staff during the TM, and comments provided by parties with respect to the Applicant's submissions pertaining to the commitments finalized at the end of the TM/PHC on June 6-7, 2019. For a complete review of all comment submissions

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<sup>2</sup> SOR/2013-69.





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received by the NWB in respect of the Application, consult the NWB’s ftp site at the link provided in Section 1.0 of this decision.

### **Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC)**

Under various legislative enactments,<sup>3</sup> CIRNAC administers Crown land and resources and enforces regulatory permits affecting land and water resources in Nunavut, including enforcing the provisions of water licences issued by the NWB. With respect to LMI’s Water Licence No: 2AM-LUP1520, CIRNAC is responsible for enforcing the terms and conditions of the Licence. Reflecting CIRNAC’s responsibilities and jurisdiction, CIRNAC’s technical review raised a number of issues, with a focus on the following topics:

- Scope of the Licence;
- Water Management;
- Waste Management;
- Monitoring; and
- Financial Security.

Specifically, CIRNAC provided the Board with comments and recommendations on the following issues:

- Review of LMI’s submissions provided with the Application, providing specific comments on:
  - Timing of completion and submission of the Human Health and Ecological Risk Assessment (HHERA);
  - Closure of Tailings Containment Area (TCA);
  - Waste Rock Management;
  - Potential Acid Generation and Metal Leaching (PAG/ML);
  - Long-term Climate Change Prediction;
  - Changes from the Approved Interim Closure and Reclamation Plan (ICRP); and

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<sup>3</sup> See for example: the *Department of Indian Affairs and Northern Development Act*, R.S.C. 1985, c. I-6; *Nunavut Agreement*; *Nunavut Land Claims Agreement Act*, S.C. 1993, c. 29; *Nunavut Waters and Nunavut Surface Rights Tribunal Act*, S.C. 2002, c. 10 (and associated Regulations); the *Nunavut Planning and Project Assessment Act*, S.C. 2013, c. 13, s. 2; the *Territorial Lands Act*, R.S.C. 1985, c. T-7 (and associated Regulations); and the *Arctic Waters Pollution Prevention Act*, R.S.C. 1985, c. A-12.



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### ○ Financial Security.

CIRNAC’s recommendations about the timing of completion and submission the HHERA indicated that LMI should incorporate the findings of the HHERA into the final version of the Final Closure and Reclamation Plan (FCRP).

In CIRNAC’s comments about the closure of the TCA, CIRNAC recommended that any exposed tailings resulting from lowering the water level in the TCA, should be placed in a tailings cell and covered.

With respect to waste rock management, CIRNAC recommended the following:

- LMI should provide details on cover design specifications such as cross sections with grads, slopes and end cover details; and
- LMI should provide excavation, haul, placement approach, and methodology for the waste rock “Dome.”

With respect to PAG/ML CIRNAC recommended that LMI conduct an Acid Rock Drainage (ARD) analysis, including geochemical and pathways analysis modeling, for all waste rock sources.

On the topic of climate change, CIRNAC recommended that LMI:

- clarify their 100 year climate change predictions; and
- clarify the duration of post-closure monitoring being proposed.

With respect to changes to LMI’s plans as originally proposed in the Interim Closure and Reclamation Plan, CIRNAC requested that LMI provide details on their plans to use salvaged rip-rap and waste rock for dam stabilization.

With respect to financial security, CIRNAC indicated that prior to CIRNAC and LMI coming to agreement on the total amount of reclamation security that should be posted by LMI under the renewed and amended water licence, LMI should finalize the Final Closure and Reclamation Plan (FCRP).

### **Environment and Climate Change Canada (ECCC)**



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The focus of ECCC’s involvement in respect of the Application is based on their jurisdiction under the *Canadian Environmental Protection Act, 1999*,<sup>4</sup> the *Migratory Birds Convention Act, 1994*,<sup>5</sup> the *Species at Risk Act*<sup>6</sup> and the “pollution prevention provisions” within the *Fisheries Act*.<sup>7</sup>

The ECCC technical review raised a number of issues, with a focus on the following topics:

- Water Management;
- Waste Management;
- Long-term Monitoring; and
- Final Closure and Reclamation;

Specifically, ECCC provided the Board with comments and recommendations on the following issues:

- Climate Change Modeling;
- Tailings Closure Approach and Monitoring;
- TCA Perimeter Dams;
- Duration of Permanent Monitoring and Timing Clarification;
- Adequacy of One Metre Esker Material Cover;
- Waste Rock, Tailings, and ARD/ML; and
- Asbestos Disposal.

With respect to Climate Change Modeling ECCC requested that LMI provide additional information on the rationale for climate change predictions and perform a range of emission scenarios from multiple climate models to reflect uncertainty in future climate projections.

Regarding Tailings Closure Approach and Monitoring ECCC recommended that LMI conduct field investigations during the Closure Phase to obtain updated data on the behavior and effectiveness of the tailings saturated cover design.

ECCC recommendations in relation to the Perimeter Dams were as follows:

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<sup>4</sup> S.C. 1999, c. 33.

<sup>5</sup> S.C. 1994, c. 22.

<sup>6</sup> S.C. 2002, c. 29.

<sup>7</sup> R.S.C. 1985, c. F-14.



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- LMI to provide additional information on the stability and potential for seepage from perimeter dams given the possibility of the frozen cores thawing due to climate change; and
- LMI to conduct a survey of frozen core integrity and provide the information to the Board in a written report.

On the topics of Permanent Monitoring and Timing Clarification, ECCC recommended that:

- LMI provide clarity on the post-closure monitoring activities and duration;
- LMI clearly identify the thresholds for water quality performance that would trigger reduced monitoring; and
- LMI be required to conduct monitoring of the TCA for a period that is sufficient to provide results that demonstrate the physical and chemical stability of the reclaimed site.

ECCC offered the following comments regarding the adequacy of the proposed one metre cover of esker material:

- LMI should provide additional information demonstrating how a 1.0 metre esker material cover will be adequate to prevent ARD/ML; and
- LMI should provide additional information on the risk associated with the use of a permeable cover (i.e. esker material) for the TCA.

ECCC made the following recommendations with respect to Waste Rock, Tailings, and ARD/ML:

- LMI should provide the rationale for the cover depth of 1.0 metre, and discuss options for installing a thicker cover to isolate PAG rock from the active layer and reduce the risk of ARD/ML;
- LMI should clearly outline the monitoring that will be conducted during closure and post-closure phases that will identify the extent and pathways of any residual ARD/ML from the waste rock storage “Dome”; and
- LMI should consider and discuss further options for the mitigation of ARD/ML, such as consolidating PAG rock and capping, or surface water management strategies to prevent ARD/ML in passive runoff or seepage.

With respect to asbestos disposal, ECCC recommended the following:

- LMI should consider disposing of asbestos-containing materials underground; and
- LMI should follow applicable guidelines if asbestos-containing materials are disposed of in the landfill and buried.



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### **4.0 Technical Meeting**

The NWB’s Technical Meeting (TM) for the Application was held in person in Kugluktuk, Nunavut, on June 6 - 7, 2019. As is the Board’s practice, the TM was an informal meeting and was chaired by Karén Kharatyan, the Board’s Director of Technical Services. The meeting was attended by the Board staff, the Applicant, CIRNAC and ECCC (collectively referred to as the Interveners), the KIA took part as an observer, and community members were in attendance at various times throughout the meeting.

It should also be noted that, as is the Board’s normal practice, the Panel Members of the Board (Lupin Panel or Panel P11), the duly appointed Panel of the Board who will be the decision-makers for the Application, delegated the conduct of the TM, the Community Session and the PHC to the Board’s staff and were not present during these meetings. Within a few days after the conclusion of the TM/PHC, the Lupin Panel met to review and approve the issuance of the PHC Decision Report and to provide direction to the staff regarding the next steps in the NWB’s processing of the Application.

At the commencement of the TM the objectives of the meeting were outlined by the NWB’s Director of Technical Services as follows:

- Examine technical data and other materials submitted as part of the Application, and technical comment submissions provided by Interveners or interested members of the public;
- Informally discuss and resolve, to the extent possible, any technical matters / issues raised between Interveners and the Applicant, particularly those matters that could affect the Board’s determination of any Pre-Hearing Conference (PHC) issues, in advance of the PHC;
- Provide an opportunity for the Applicant and Interveners to identify for the Board the issues and concerns that have been resolved and to discuss any unresolved or ongoing issues related to the Application;
- Identify opportunities for streamlining the issues and processes so as to eliminate existing or potential duplication or delay; and
- Document any commitments made by the various parties involved in the TM, with the aim of carrying forward those commitments to the PHC and Public Hearing stages of the NWB’s consideration of the Application.



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The participants were advised that upon completion of the TM, the Board expects any outstanding issues in respect of the Application would be resolved, or if not resolved, that some form of agreement, including commitments would be provided by the parties to enable the Application to proceed to the next step of the licensing process, the PHC.

At the TM, the following topics were discussed:

- Scope:
  - Term of Licence renewal.
- Water Use and Management:
  - Adjusting water use amounts with closure vs post-closure activity on site;
  - Lowering of water levels and water discharge from the TCA;
  - Runoff and seepage management.
- Waste Management:
  - Closure and cover of the TCA;
  - Waste rock;
  - Hazardous waste disposal;
  - Petroleum-Hydrocarbon (PHC) Contaminated Soils;
- Management Plans and Studies:
  - Changes from the ICRP to the FCRL;
  - Timing of HHERA and incorporation of findings into the FCRP.
- Monitoring:
  - Seepage and surface runoff monitoring;
  - ARD/ML monitoring.
- Closure and Post-Closure;
  - Requirements for closure and reclamation;
  - Duration of Post-closure monitoring; and
  - Long-term climate change effects.



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### **Commitments**

Following the discussions at the TM on June 6, 2019, the NWB circulated, for the review and comment of all participants, an electronic copy of the draft list of commitments discussed during the TM. In the evening of June 6, 2019, and morning of June 7, 2019, the parties took the opportunity to review and revise the draft list of commitments to reflect the clarifications and subsequent agreement of the parties. The Commitment List provided in [Appendix D](#) and attached to this Report reflects the outcome of the discussions during this portion of the TM. For the convenience of the parties, where commitments made by the Applicant will result in the submission of additional or updated documentation, the Board has included a description of the timelines for submission of this information and the form of submission expected by the parties. As previously noted, the NWB expects the Applicant and Interveners, where applicable, to comply with the commitments that have been provided in accordance with the timelines set out in the commitments. As noted in the discussion of the next steps in the Board’s processing of the Application, failing to meeting the timelines agreed to in the attached Commitment List can result in delays in the next steps and can result in the NWB cancelling or rescheduling the Public Hearing, if required.

Similarly, the List of Issues (discussed in more detail under Section 6.0 of this Report below) to be dealt with at the future Public Hearing was also reviewed and revised at the close of the TM to reflect the discussions of participants during the TM.

### **5.0 Community Session**

Recognizing that the TM is primarily aimed at discussing and addressing the technical issues identified by the Applicant, Interveners and the NWB’s technical staff, the Board held a Community Session to provide additional opportunities to the members of the public to ask questions, provide comments, or give input.

The Community Session for the Application was held in person in Kugluktuk, Nunavut, on the evening of June 6, 2019. It was chaired by Karén Kharatyan, the Board’s Director of Technical Services with a presentation by Derek Donald, the Board’s Technical Advisor for the Application.

The Applicant and Interveners were in attendance at the Community Session to address public comments and questions.

At the commencement of the Community Session, the NWB’s Director of Technical Services outlined the following objectives of the meeting:





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- To provide information to the community members about the water licence in relation to the Lupin Mine Project;
- To facilitate participation from the general public;
- To encourage members of the public who are in attendance to ask questions relevant to LMI’s water licence application; and
- To provide opportunities to members of the public to share their comments and give their input.

As set out in [Appendix B](#), 3 members of the public attended the Session. The Session commenced with an overview of the NWB process by Derek Donald, Technical Advisor with the NWB. The Session proceeded with an overview of the Application provided by the Applicant.

The Session concluded with a question and answer session during which community members from Kugluktuk were invited to ask questions of the Applicant, Interveners, and the staff of the NWB. The members of the public in attendance asked about potential employment opportunities associated with the closure and post-closure activities proposed in the Application and also asked about the monitoring responsibilities of LMI and LMI’s reclamation contractor during the active closure of the site and subsequently during the post-closure period. The members of the public in attendance did not express any concerns with respect to the Application generally, nor with the Application proceeding to a Public Hearing. In addition to posing questions while the meetings were in session, the Board noted that members of the public also interacted informally with representatives of LMI during the TM and Community Session.

### **6.0 Pre-Hearing Conference**

At the conclusion of the TM, the parties confirmed that there were no outstanding issues that would prevent the Application from proceeding to the next step in the licensing process, a Public Hearing, and the Pre-Hearing Conference (PHC) portion of the Agenda proceeded in the morning of June 7, 2019.

The PHC was also chaired by the Board’s Director of Technical Services, Karén Kharatyan, with the parties who participated in the TM also in attendance during the PHC.

The purpose of the PHC was to discuss the various matters as set out in Rule 14 of the *NWB Rules of Practice and Procedure for Public Hearings* (May 2005), (the *Rules*) in preparation for the Public Hearing. Pursuant to Rule 14, the following matters were addressed through the PHC:

- A discussion of outstanding technical review issues for the Application;



## 2AM-LUP1520 Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520 - PHC Decision

- The identification of any issues preventing the Application from proceeding to a Public Hearing;
- A discussion of procedures for the Public Hearing, including form, timing and location;
- Presentation of a tentative timetable for the Pre-Hearing exchange of information, including document translation requirements, documentation to be included in the Public Hearing Record, etc.;
- Confirmation / finalizing the list of issues to be dealt with at the Public Hearing;
- The identification of interested parties;
- Consideration of the desirability of amending the Application for the purposes of clarification;
- Finalization of procedures to be followed at the Public Hearing, including requested modifications to the applicable *Rules*, including language requirements; and
- Consideration of any other matters that may aid in the simplification and disposition of the application at the Public Hearing.

### **Identification of Any Issues Preventing the Application from Proceeding to a Public Hearing**

The Applicant and parties did not identify any issues that would prevent the Application from proceeding to a Public Hearing.

### **Procedures for the Public Hearing**

The Applicant and parties participating in the PHC were polled on the issue of the timing for the Public Hearing, and for their views on the location and form of the Public Hearing (written, teleconference or in-person). The Applicant and CIRNAC indicated that an in-person Public Hearing was the most appropriate form of Public Hearing. ECCC indicated that due to limitations on travel, while respecting any direction from the Board to hold an in-person Public Hearing, may be limited to participation by teleconference. As noted by the Board in respect of previous Public Hearings, due to the limits of technology in Public Hearing venues, the NWB cannot guarantee the availability of a stable teleconference line for participants. If, during the Public Hearing the teleconference link cannot be reliably maintained, the Board may have to proceed in the absence of teleconference participants. In addition, the Board recognizes that participation by teleconference limits the opportunities for community engagement of a participant, as the Board notes that members of the public are much less comfortable asking questions to a participant on the phone. In addition, telephone participants are not as readily able to engage in the type of



## 2AM-LUP1520 Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520 - PHC Decision

productive sidebar discussions that lead to the resolution of issues because these discussions often take place at in-person Public Hearings but outside the formal Public Hearing venue. Accordingly, the NWB strongly encourages all participants to ensure in-person attendance of at least one representative.

In terms of location, all parties agreed that an in-person Public Hearing should be held in the community closest to the Lupin Mine, Kugluktuk.

In choosing the appropriate form and location of the Public Hearing required to consider the Application, the Board considered the views of the Applicant and Interveners. The Board also considered the nature and scope of the Application, the community interest in the undertaking and the Application, including noting that there are significant amendments to the existing Water Licence to reflect the change in status of the Lupin Gold Mine from temporary care and maintenance to permanent closure. Consequently, the Board recognizes that the Application marks the significant milestone of the final closure of the Lupin Mine, and involves the approval of a Final Closure and Reclamation Plan and potential post-closure long-term monitoring for the Mine. Reflecting the shift to the “end of mine” status of the Project, the Board expects community members in Kugluktuk, many of whom have worked at the Lupin Mine at various times, or who have travelled in the area adjacent to the Mine, to have a significant interest in LMI’s closure and monitoring plans specifically, and the Application in general.

As a result, the Lupin Panel has concluded that an in-person Public Hearing is required for the Application. With respect to the timing of the Public Hearing, recognizing the significance of the information that the Applicant has committed to provide over the next several months, and on the assumption that all information necessary to be reviewed by the Board and Interveners in respect of the Application will be received by the Board on or before November 15, 2019, the Board has proposed that the earliest date for the Public Hearing would be the second week of January 2020. As discussed during the PHC, this timing also reflects a slightly extended comment period for the Applicant over the holiday season in December and early January. On this basis, and as set out in the discussion of the exchange of documents set out below, the NWB has tentatively scheduled an in-person Public Hearing in the community of Kugluktuk for the week of January 13-17, 2020 (**tentative** dates for the two-day Public Hearing are **January 16 and 17, 2020**). These dates are subject to final confirmation by way of the Notice of Public Hearing to be published by the NWB on **November 15, 2019**, and the Board reserves the right to adjust this schedule if Hearing logistics dictate, if the documentation required to be supplied in advance of the Public Hearing has not been provided, etc.



## 2AM-LUP1520 Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520 - PHC Decision

The parties have confirmed that they do not anticipate that any deviations from the Board’s normal *Rules of Practice and Procedure for Public Hearings* (May, 2005) will be required, and as such, the Board directs all parties that the Public Hearing will be conducted in accordance with Parts III and IV of the *Rules*.

### **Timetable for Pre-Hearing Exchange of Information**

It was noted at the beginning of this discussion during the PHC that, as required by s. 55(2) of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NWNSTRA), the NWB must give the public and parties a minimum of sixty (60) days’ notice in advance of a Public Hearing.

During the PHC, in addition to filing LMI’s response submission and Public Hearing presentation materials in accordance with the timelines set out below, LMI committed to filing a draft Water Licence Framework for the review of the Interveners and the NWB on or before **November 15, 2019**. Based on the dates for the Public Hearing being set for the week of January 13-17, 2020, at the PHC the Board staff and Legal Counsel provided parties with a tentative outline of dates, which was discussed and modified as necessary to reflect the recommendations of parties. As discussed at the PHC if any of the timelines proposed below are not met, delays to the next steps in the process may result, and all parties are strongly encouraged to make every effort to meet the schedule set out below.

It should be noted that although the Board has established a proposed timetable for the pre-hearing exchange of information set below, the Board, as always, reserves the right to revisit this timing, if circumstances warrant. The following schedule is premised upon the NWB hosting a two day in-person Public Hearing in the week commencing January 13, 2020 (tentatively **January 16 and 17, 2020**). Unless modified as outlined above, the Board requires the participants to observe the following timetable:

- On or before **Friday, November 15, 2019**, the NWB will issue the Notice of Public Hearing in the paper and on the NWB’s public registry;
- LMI will file a discussion draft of the Water Licence Framework in respect to the proposed amendment and renewal of Water Licence No. 2AM-LUP1520 with the Board on or before **November 15, 2019**;
- Any party requesting French translation of any component of any other parties’ submissions, presentation materials and/or requesting the Board to provide simultaneous French translation at the Public Hearing must make such requests to the Board in writing on or before **December 2, 2019**;



## 2AM-LUP1520 Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520 - PHC Decision

- All further and final written submissions to be provided by Interveners or interested members of the public must be filed with the Board on or before **Monday, December 16, 2019**;
- All further and final responses of LMI to the information filed to date must be filed with the Board on or before **Friday, January 3, 2020** ;
- Any presentations (e.g. PowerPoint Presentations, etc.) upon which anyone intends to rely at the Public Hearing must be filed with the Board on or before **Friday, January 10, 2020**; and
- If the Interveners and/or the Applicant file additional written submissions, final responses and presentation materials as outlined above, they are also required to make best efforts to provide **an Executive Summary of their written submissions in English, French, and Inuinnaqtun and fully translated copies of their presentation materials or final responses in English and Inuinnaqtun at the same time** as they file the full submission.

All submissions received by the Board will be posted on the NWB’s ftp-site (<ftp://ftp.nwb-oen.ca/>) and in the public registry upon receipt. A copy of the public registry as it relates to the Application will be available for review at the Public Hearing.

### List of Issues

The intervening parties in attendance at the PHC confirmed that none of the issues for discussion associated with the Application and the related information requirements should prevent the Board from proceeding to the Public Hearing stage of the Board’s processing of the Application.

At the end of the PHC, the parties reviewed the following list of issues that will be brought forward for discussion at the Public Hearing and agreed that, subject to adding issues following the review of information that may be exchanged in advance of the Public Hearing, the following issues would be discussed at the Public Hearing:

- Term of Renewed Licence
  - 7 years to cover closure activities and the first 5 years of post-closure monitoring
- Water Use Requirements
  - Increases during active closure & reclamation
  - Reductions over course of term
- Waste Disposal
  - Hazardous Waste



## 2AM-LUP1520 Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520 - PHC Decision

- Waste rock with elevated Arsenic content
  - PHC Contaminated Soil
  - Asbestos
  - Surface Infrastructure and On-site Equipment
- Tailings and Waste Rock
  - Cover design for waste rock storage “Dome”
  - Acid Rock Drainage and Metal Leaching (ARD/ML) potential
  - Water management
    - Potential for waste rock contact water;
    - Potential for seepage from waste rock;
    - Potential for seepage from TCA.
- Amendments to terms and conditions
  - Draft Water Licence Framework
  - Changes to reflect change in status of the site from temporary care and maintenance to permanent closure and reclamation
  - Amendments to reflect activities completed under the existing Licence and progressive reclamation that has taken place and will be taking place in 2019
  - Amendments to reflect post closure environmental and site conditions (e.g. changes to monitoring and reporting frequency)
- Management Plans and Reports
  - Updates to plans
  - Timing/Approval of plans
- Monitoring Program
  - Plans for monitoring during active closure & reclamation through to mine closure
  - Post-closure monitoring requirements (including term of monitoring)
- Closure and Reclamation Planning
  - Additional studies/analysis (ARD, geochemical and pathways)
  - Human Health Ecological Risk Assessment (HHERA)
  - Climate Change Models/scenarios and potential effects on closure & reclamation
  - Geotechnical stability and erosion control
  - Timing, phases and scheduling
  - Final Closure and Reclamation Plan



## 2AM-LUP1520 Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520 - PHC Decision

- Reclamation Security Cost Estimate
  - Update to total cost estimate to reflect updated final closure and reclamation planning
  - Mechanism for/agreement with respect to progressive release of security (e.g. periodic reductions in security over term of Licence to reflect progressive reclamation and completion of site remediation)

### **Identification of Interested Parties**

Summary listings identifying the attendees at the TM, Community Session, and PHC (based on the sign in sheets completed at these sessions) are provided in [Appendix B](#) attached to this Report. During the PHC, the following parties confirmed their participation and attendance at the Public Hearing:

- The Applicant, Lupin Mines Inc. (LMI);
- Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC);
- Environment and Climate Change Canada (ECCC).

In addition, the Kitikmeot Inuit Association (KIA) indicated they would be in attendance as an observer at the Public Hearing, but would not be participating as an Intervener.

During discussions at the PHC, none of the participants identified other parties that should be invited to attend the Public Hearing.

### **Changes to the Application for the Purposes of Clarification**

The Applicant and Interveners in attendance were canvassed regarding any potential changes to the Application, and they responded that with the exception of LMI considering a request to add to the original 7 years term of the amended and renewed water licence to reflect longer-term post-closure monitoring, there were no anticipated changes to the Application. Should any changes become necessary, any additional information that the parties wish the Board to consider during their review of the Application must be filed with the Board in advance of the Public Hearing and in accordance with the timelines outlined above under the heading “Timetable for Pre-Hearing Exchange of Information”.

### **Other Procedural Matters including Language Requirements**

The Applicant and parties in attendance were polled and confirmed that there are no additional procedural matters or issues for consideration at the Public Hearing.





## 2AM-LUP1520 Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520 - PHC Decision

However, the Interveners all noted that they were having difficulty with getting materials translated into Inuinnaqtun in a timely fashion and indicated that their past experiences in this region were that it was often not possible to get accurate Inuinnaqtun translations of materials completed in time to meet the general submission timelines. In response, the Board acknowledged that this issue has been raised previously during the Board’s licensing processes in the region, but that full and proper engagement with unilingual residents of Kugluktuk requires that all reasonable efforts be made to ensure translated copies of Executive Summaries and presentation materials are supplied at the Public Hearing. The Board strongly encourages all parties to make every effort to retain Inuinnaqtun translators in sufficient time to ensure translated copies of materials can be supplied at the Public Hearing.

The NWB confirmed that the Board would provide simultaneous interpretation at the Public Hearing in English and Inuinnaqtun. All parties confirmed that they had no additional interpretation requirements at the Public Hearing. The NWB staff also confirmed that as is the Board’s practice, the Board will provide notice of the Public Hearing in the official languages. The Notice will also invite any parties planning to participate at the Public Hearing to advise the Board of any additional language requirements, including translation and interpretation requirements by **December 2, 2019**.

### **Measures to Simplify the Disposition of the Application**

As noted above, LMI committed to submit a Draft Licence Framework document to highlight the proposed amendments to the existing water licence terms and conditions to reflect the change in status to final closure of the Lupin Mine, to align with the NWB’s recent approaches to issues such as phased security, and to reflect LMI’s commitments and various submissions received to date. The Applicant intends to provide this document on or before **November 15, 2019**, with the intention to simplify and focus the parties’ discussion of the amendments sought in the Application.

As a general note, on the issue of the progressive release of financial security, the NWB received confirmation from the Applicant and CIRNAC, that discussions on security were in process and anticipated to continue. CIRNAC indicated that although there is general agreement in respect of the global security estimate, work continues in terms of coordinating the progressive release of security and other related issues, but also stated that these ongoing discussions would not prevent the Application from proceeding to a Public Hearing. The NWB expects LMI to address the issue of the progressive release of security in the Draft Licence Framework Document to ensure that all parties have an opportunity to review and comment on the approach.



## 2AM-LUP1520 Application for the Amendment and Renewal of Type “A” Water Licence No: 2AM-LUP1520 - PHC Decision

In addition, during the PHC, the NWB identified that based on experience with public input and discussions with the community members, during the Public Hearing the Board requests that LMI ensure that visual aids, similar to the large maps used at the Technical Meetings, be provided. In the Board’s experience, these kinds of visual aids are very useful when engaging with participants in the Board’s process and are essential in fostering meaningful discussions with community members about some very technical issues.

No other comments or issues were identified with respect to measures to simplify the disposition of the Application.

### **Steps following the Public Hearing**

As discussed at the PHC, the Board anticipates following the NWB’s usual decision timelines and practice following the Public Hearing. On the assumption that the normal practice is followed, when the Panel has reached a decision, which is typically within thirty (30) to forty-five (45) days of the close of the Public Hearing Record, the Board will issue its Record of Proceedings and Decision to the relevant Minister (currently the Minister of Crown-Indigenous Relations and Northern Affairs). If the Panel recommends the amendment and renewal of Type “A” Water Licence No. 2AM-LUP1520, as requested by LMI, should be granted, a renewed and amended Water Licence would also be provided for the Minister’s consideration along with the NWB’s Record of Proceedings and Decision.

If you require additional information regarding the Application, the Board’s specific direction or the Board’s processes in general, please do not hesitate to contact the NWB’s Director of Technical Services, Karén Kharatyan, [karen.kyaratyan@nwb-oen.ca](mailto:karen.kyaratyan@nwb-oen.ca). For any administrative matters related to the Public Hearing, please contact the NWB’s Manager of Licensing, Richard Dwyer, at [licensing@nwb-oen.ca](mailto:licensing@nwb-oen.ca).

Regards,

**NUNAVUT WATER BOARD**

Stephanie Autut  
Executive Director  
SA/dd/rqd



2AM-LUP1520 Application for the Amendment and Renewal of Type “A”  
Water Licence No: 2AM-LUP1520 - PHC Decision

**Attachments:**

- Appendix A: Technical Meeting, Community Session and Pre-Hearing Conference Agenda
- Appendix B: Summary Listing of Attendees at the Technical Meeting, Community Session and Pre-Hearing Conference
- Appendix C: List of Application Submissions
- Appendix D: List of Commitments Generated during the Technical Meeting held June 6 and 7, 2019, for Water Licence Application No. 2AM-LUP1520



2AM-LUP1520 Application for the Amendment and Renewal of Type “A”  
Water Licence No: 2AM-LUP1520 - PHC Decision

## **APPENDIX A: AGENDA**

### **TECHNICAL MEETING AND PRE-HEARING CONFERENCE LUPIN MINE PROJECT WATER LICENCE**

#### **WATER LICENCE AMENDMENT (TYPE “A” LICENCE 2AM-LUP1520)**

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#### **TECHNICAL MEETING**

**Date: June 6, 2019**

**Time: 8:30 AM – 5:00 PM (MT)**

**Location: Kugluktuk Community Hall**

1. Introduction and Registration
2. Application to the Board, NWB Opening Remarks (15 Minutes)
3. Purpose of the Technical Meeting / Pre-Hearing /
4. Technical Review of the Application
  - a. Lupin Mines Ltd. presentation on the Project (30Min)
  - b. Identification of Interested Parties
  - c. Presentations from Interested parties (30min/party)
  - d. Discussion of Commitments to Address Technical Issues
  - e. Formulation of Outstanding Issues
  - f. Identification of the parties’ commitments to resolve relevant technical issues, service of documents to parties (deadline, public registry, form)
5. Closing of Technical Meeting (*May continue to the next day if required*)

Health Breaks – 20-30 minutes

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#### **COMMUNITY SESSION**

**Date: June 6, 2019, 7:00 - 9:30 PM (MT)**

**Location: Kugluktuk Community Hall**

6. Community Session
  - a. Overview of NWB process by NWB (15 minutes)
  - b. Presentation of Application by Applicant (30 minutes)
  - c. Presentation/statements by Intervening Parties (15 minutes/party)
  - d. Questions and comments from community

**AGENDA (CONT.)**

**TECHNICAL MEETING AND PRE-HEARING CONFERENCE  
LUPIN MINE PROJECT WATER LICENCE**

**WATER LICENCE AMENDMENT (TYPE “A” LICENCE 2AM-LUP1520)**

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**PRE-HERING CONFERENCE**

**Date: June 7, 2019**

**Time: 8:30 AM – 5:00 PM (MT)**

**Location: Kugluktuk Community Hall**

1. Pre-Hearing Conference
  - a. Identify issues that may prevent the Application from proceeding to a Public Hearing
  - b. Discuss form, timing, and location of a potential Public Hearing for the Application
  - c. Establish timetable for the pre-hearing exchange of information including:
    - i preparation and filing of additional documents by the parties (deadlines, form, public registry)
    - ii document-translation requirements
    - iii documentation to be included in the Public Hearing Record
  - d. Finalize list of issues to be addressed at the Public Hearing
  - e. Identify interested parties / parties that should be invited to participate in the Public Hearing
  - f. Identify any changes required to the Application for the purposes of clarification
  - g. Final procedures to be followed at the Public Hearing including:
    - i requested modifications to the applicable *NWB Rules of Practice and Procedure for Public Hearings* (May 2005)
    - ii language requirements at the Public Hearing
  - h. Consideration of any other matters that may aid in the simplification and disposition of the Application at the Public Hearing
2. Other issues
3. Closing of the meetings.

## APPENDIX B: Summary Listings of Attendees at Technical Meeting, Community Session and Pre-Hearing Conference

In Person Technical Meeting – June 6, 2019, Day 1 Daytime Session  
Registration Forms

TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED  
KUGLUKTUK, Nunavut June 6, 2019  
Registration Form Day One

No.	First Name	Last Name	Organization/ Address	Phone	Fax	E-mail
1.	Ian	Parsons	CIRNAC	867-220-9078		ian.parsons@canada.ca
2.	John <del>Parsons</del>	<del>KIA</del> Roedel	KIA	867-982-3360 ext 231		srproject@kitia.ca
3.	Karyn	Lewis	LMI	7793867340		K.Lewis@mandalyservices.com
4.	Jim	McKinlay	Stantec	4038088389		jmckinlay88@gmail.com
5.	Alvin	Tong		6046305833		Alvin.Tong@stantec.com
6.	Gerard	Wooten	ARCADIS	6472425146		Gerard.Wooten@canada.ca
7.	Alison	Law	CIRNAC	647-958-9458		alison.law2@canada.ca
8.	Godwin	Okonkwo	CIRNAC			godwin.okonkwo@Canada.ca
9.	Ken	Bocking	Golder	905 334 3712		kbocking@golder.com
10.	Kenny	Rupesh	Nahanni	661-444-9711		kenny@nahanninc.com
11.	Coral	Newman	KIA	867 982 350		Jlandstech@kitia.ca
12.	Gordon	Hickman	CIRNAC	982-3277		
13.	Charles	Sitatak	167 Sperry St			
14.	Steron	Anaktak	Observer			steron.anaktak10@gmail.com
15.	Elie	Eloak				
16.	Brenda	Kokak				
17.	Carrie	Kokak				
18.	Gail	Kokak				
19.	Thomas	Hitkolok				
20.	Wahick	KAKOLAK				

TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED

KUGLUKTUK, Nunavut June 6, 2019

Registration Form Day One

No.	First Name	Last Name	Organization/ Address	Phone	Fax	E-mail
21.	Elvera	Elatiak				
22.	PHIL	EVAGLOK				
23.	John	Palangyak				
24.	W. P. P. P.	W. P. P. P.				
25.	DORIS	Kahhak.				
26.	JACKIE	NOVAGLU				
27.	Jayko	Palangyak				
28.	BETTY Ann	KADLUN				
29.	Jerry O	owit				
30.	Craig A	Kakolak		982 5043		caKakolak@gmail.com
31.	Sylvia	Kilgik	Box 259 Kugluktuk, Nu.	None		
32.	Marg Kijuna	Kijuna	Box 57 Kugluktuk	982 6306		
33.	MARTIS	Onipkak	Box 163 Kugluktuk			
34.	DIANA	EVAGLOK	Box 117			
35.	Rachel/Kadon	Kadlun	Box 145			
36.	David Hohnstern		LMI CONSULT.	780 906 8273		david.hohnstern@shaw.ca
37.	Sara Wilkins		Startec	403 807 7786		Sara.Wilkins@startec.com
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TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED

KUGLUKTUK , Nunavut June 6, 2019

Registration Form Day One

No.	First Name	Last Name	Organization/ Address	Phone	Fax	E-mail
41.	Ben	Kogvik	NWB			
42.	Daniel	Otokiak	NWB			
43.	Ryan	<del>D</del>	NWB			
44.	Karen	Kharatyan	NWB			
45.	Teresa	Meadows	NWB			
46.	Derek	Donald	NWB			
47.	Richard	Dwyer	NWB			
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In Person Community Session – June 6, 2019, Day 1 Evening Session  
Registration Form

TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED  
KUGLUKTUK, Nunavut June 6, 2019  
Registration Form COMMUNITY SESSION

No.	First Name	Last Name	Organization/ Address	Phone	Fax	E-mail
1.	Brenda	Kokak				
2.	Diana	ELK				
3.	Carrie	KOKAK				
4.	Ian	Parsons	GRAND	(867) 220-9278		ian.parsons@canada.ca
5.	Bruce Hukhah	Hukhahaitok				
6.	Craig	Kokolak		8679825043		cakokolak@gmail.com
7.	Wayne M.	magaknak				
8.	Willie	Pigokak				
9.	JOHN	AKILINGAK				
10.	Janita	Atatahak	336 Nattiz St	(867) 688-3213 or 688 3223		
11.	ASHLEY	HIKHAITOK	347 AKHAK ST			
12.	Shawn	Nigaktalik	336 Nattiz St	688-3213 - 688 3223		nigaktalik@mail.com
13.	Sara	Wilkins	Stantec	4058077788		sara.wilkins@stantec.com
14.	David	Otokiak	NWB			
15.	Ryan		NWB			
16.	Teresa	Meadows	NWB			
17.	Ben	Kogvik	NWB			
18.	Karen	Kharatyan	NWB			
19.	Richard	Dwyer	NWB			
20.	Derek	Donald	NWB			

**TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED**  
**KUGLUKTUK , Nunavut June 6, 2019**  
**Registration Form COMMUNITY SESSION**

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TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED  
KUGLUKTUK, Nunavut June 6, 2019  
Registration Form COMMUNITY SESSION

No.	First Name	Last Name	Organization/ Address	Phone	Fax	E-mail
41.	John	Roesch	KIA	867-982-3310		srproject@kitia.ca
42.	Alison	Lew	CIRNAE	647-938-9958		alison.lew2@canada.ca
43.	David	Hohnstein	LMI cons.	780-906-8273		david.hohnstein@shaw.ca
44.	Karyn	Lewis	LMI	778-386-7340		K.Lewis@mandalayresources.com
45.	Kira	Boetting	Golder/for LMI	905-334-5442		kboetting@golder.com
46.	Lena					
47.	Steen	Anaktek	WSEC-Safety Com.			steven.anaktek10@gmail.ca
48.	Amara	Bycheak				
49.	Sam	Nouwen				
50.	Margaret	Kesjune				
51.	Terry	Unlok				
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In Person PHC – June 7, 2019, Day 2 Daytime Session  
Registration Forms

TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED

KUGLUKTUK, Nunavut June 7, 2019

Registration Form Day Two

No.	First Name	Last Name	Organization/ Address	Phone	Fax	E-mail
1.	David	Enipkar				
2.	John	Roesch	KIA	867-982-3310		srproject@ktra.ca
3.	Ben	Parsons	CTWAC	867-222-9278		ben.parsons@canada.ca
4.	Alison	Low	CIRNAC	647-458-9458		alison.low@pcanada.ca
5.	Gerd	Wiatzka	ARCADIS	647-292-5146		Gerd.Wiatzka@arcadis.com
6.	Godwin	Okonkwo	CIRNAC	867-975-5550		godwin.okonkwo@canada.ca
7.	Carol	Newman	KIA	867-982-3310		Irlandstech@kitica.ca
8.	Karen	Lewis	LHI	778-336-7340		K.Lewis@montclairresources.com
9.	Jim	McKinley	Stantec	403-808-8899		jim.mckinley@stantec.com
10.	Sara	Wilkins	Stantec	403-807-7766		sara.wilkins@stantec.com
11.	David Enipkar	Enipkar	Box - 401 Kugluktuk, Nu	1-867-445-0985		David.enipkar@kugluktuk.com
12.	David		Kugluktuk			
13.	Steven	Anaktak	WSCC - Safety			steve.anaktak@agora.com
14.	David	Otokiak	NWB			
15.	Ryan		NWB			
16.	Teresa	Meadows	NWB			
17.	Ben	Koyvik	NWB			
18.	Karen	Kharatym	NWB			
19.	Richard	Dwyer	NWB			
20.	Derek	Donald	NWB			

**TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED**  
**KUGLUKTUK , Nunavut June 7, 2019**  
**Registration Form Day Two**

No.	First Name	Last Name	Organization/ Address	Phone	Fax	E-mail
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TECHNICAL MEETING 2AM-LUP1520 LUPIN MINES INCORPORATED

KUGLUKTUK, Nunavut June 7, 2019

Registration Form Day Two

No.	First Name	Last Name	Organization/ Address	Phone	Fax	E-mail
41.	Alvin	Tong	Starter	6046305933		Alvin.Tong@Starter.on
42.	Ken	Boeking	Goldor	905 334-3942		kboeking@goldor.com
43.	David	Hohnstein	LMI cons.	780 906 8243		david.hohnstein@shaw.ca
44.	Helen	Kuneluk		847 0985		
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## **APPENDIX C: List of the Applicant's Submissions**

The following documents were included with the Application submitted by Lupin Mines Incorporated (LMI):

### **1. July 27, 2018, 2AM-LUP1520 Water Licence Amendment**

- 0 Cover Letter
- 1 Application Form
- 2 Table A List Plans Documents
- 4 Executive Summary
- 5\_0 Fig01\_Location Plan RevA
- 5\_0 Fig02\_Project History Rev A
- 5\_0 Fig03\_General Arrangement Plan Current Conditions Rev A
- 5\_0 Fig04\_Mine Site Current Conditions RevA
- 5\_0 Fig05\_Tailing Containment\_2017Workings RevA
- 5\_0 Fig06\_Underground Disposal Area\_RevA
- 5\_0 Fig07\_Borrow Pits and Quarries RevA
- 5\_0 Fig08\_Monitoring Program Stations RevA
- 5\_0 Fig09\_Historical TCA Water Discharge RevA
- 5\_0 Fig10\_Post Closure Mine Site RevA
- 5\_0 Fig11\_Tailing Containment Closure RevA
- 5\_0 Fig12\_Post Closure Monitoring Locations RevA
- 5\_0 Fig13\_Kinross Underground Disposal Plan RevA
- 5\_0 Fig14\_FCRP Underground Disposal Plan RevA
- 5\_0\_Final\_Closure\_Reclamation Plan Ver.0
- 5\_B FCRP Appendix B
- 5\_G Reclaim Cost Estimate

### **2. February 5, 2019**

- 4 Executive Summary Inuinnaqtun
- 4 Executive Summary Inuktitut
- 5\_0 FCRP Executive Summary Inuinnaqtun
- 5\_0 FCRP Executive Summary Inuktitut
- Table B Licence Compliance Assessment and Status Report

### **3. February 6, 2019**

- Table B Licence Compliance Assessment and Status Report

### **4. March 19, 2019**

- LMI Lupin Closure Project Response to CIRNAC March 4 19 Memo\_Rev0
- LMI Response to CIRNAC comments - Application Completeness check
- Table 14 Summary of Measures for Final Closure Revised March 19 2019

- 5. May 17, 2019**
  - LMI Cover Letter Response to Technical Review - Application for Renewal Amendment and Final Closure
  - LMI Technical Comment Response
- 6. May 29, 2019**
  - LMI Technical Meeting & Pre-Hearing Conference Attendees
  - LMI Technical Meeting & Pre-Hearing Presentation
- 7. June 6, 2019**
  - LMI Technical Meeting & Pre-Hearing Presentation V2

**APPENDIX D: List of Commitments Generated during the Technical Meeting held June 6-7, 2019, for Water Licence Application No. 2AM-LUP1520**

No.	Party Responsible for Commitment	Party(s) who raised (Item#)	Issue - TM Commitment	Timeline for Submission	Form of Submission
1.	LMI	CIRNAC	Completion of Human Health Ecological Risk Assessment (HHERA) (to include geochemical, thermal and seep modelling studies)	October 15, 2019	HHERA Report
2.	LMI	CIRNAC	Updated security estimate RECLAIM model	November 1, 2019	Updated Reclamation Security Estimate
3.	LMI	CIRNAC	LMI to go through records and provide historical data analysis regarding ARD potential of tailings dams and roadways, etc. and to indicate whether, based on the historical information, the additional study in line #4 will/will not be provided	August 15, 2019	Summary of historical data in a Technical Memo

<b>No.</b>	<b>Party Responsible for Commitment</b>	<b>Party(s) who raised (Item#)</b>	<b>Issue - TM Commitment</b>	<b>Timeline for Submission</b>	<b>Form of Submission</b>
4.	LMI	CIRNAC	Based on the results of #3 above, if required ARD Potential (rock characterization, and potentially including geochemical and pathway analysis) to be conducted at the TCA dams.	November 15, 2019	Technical Memo
5.	LMI	CIRNAC	Preliminary design level explanation of waste rock storage “Dome” design (including typical cross section, seepage, topography, geochemistry and stormwater drainage estimates, etc.)	October 15, 2019	Technical Memo
6.	LMI	CIRNAC	Geotechnical details of engineered structures (e.g. which dams will the rip-rap material be taken from to change slope and which dams will be enhanced, cross sections and details) to ensure long term stability and erosion control.	November 15, 2019	Technical Schematics
7.	LMI	CIRNAC	Geochemical source term and load model for seepage from the waste rock storage “Dome.”	October 15, 2019	Supporting technical memo to the HHERA

<b>No.</b>	<b>Party Responsible for Commitment</b>	<b>Party(s) who raised (Item#)</b>	<b>Issue - TM Commitment</b>	<b>Timeline for Submission</b>	<b>Form of Submission</b>
8.	LMI	CIRNAC	Decision matrix/tree that determines how exposed tailings will be handled on a case by case basis when lowering the water level in the TCA.	October 15, 2019	Technical Memo
9.	Joint submission LMI and CIRNAC	LMI	Framework for progressive release of security	August 15, 2019	Joint submission of LMI/CIRNAC to the NWB
10.	LMI	ECCC	One-time inspection (test pit) to “ground truth” the status of the cover nearby one of the installed standpipes (note: water quality data will be collected from all standpipes and presented in the context of historical water quality data from the standpipe information).	October 15, 2019	Technical Memo
11.	LMI	ECCC	One-time geophysical survey conducted along two selected dams to confirm the condition of frozen cores.	October 15, 2019	Technical Memo

<b>No.</b>	<b>Party Responsible for Commitment</b>	<b>Party(s) who raised (Item#)</b>	<b>Issue - TM Commitment</b>	<b>Timeline for Submission</b>	<b>Form of Submission</b>
12.	LMI	ECCC	Risk assessment of the two dams selected under item #11, based on the results of the thermal modelling provided on October 15, 2019, and representing both perimeter and internal dam types.	November 15, 2019	Technical Memo
13.	LMI	ECCC	LMI to use a range of emission scenarios (low to high future forcing) from multiple climate models and considering multiple parameters (precipitation, permafrost thaw, etc.), which will be determined following consultation with climate change experts, for consideration in the Final Reclamation and Closure Plan.	October 15, 2019	Technical Memo
14.	LMI	ECCC	Post-closure monitoring plan, following discussion with all stakeholders.	1 year following the approval of the Licence	Post Closure Monitoring Plan
15.	LMI	NWB	LMI to provide Draft Licence Framework identifying suggested amendments to existing Licence	Included with LMI's final submission prior to Public Hearing	Draft Licence Framework Document