



AGNICO EAGLE

UPPER BEAVER PROJECT

UPPER BEAVER GOLD PROJECT DETAILED PROJECT DESCRIPTION



December 2021

wood.

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A. GENERAL INFORMATION

A.1 Project Name, Sector and Location

Project Name: Upper Beaver Gold project
Sector: Mines and minerals - gold and copper mine
Location: 19 kilometres (km) east of Kirkland Lake, Ontario; see Figure A.1

A.2 Proponent

Proponent: Agnico Eagle Mines Limited
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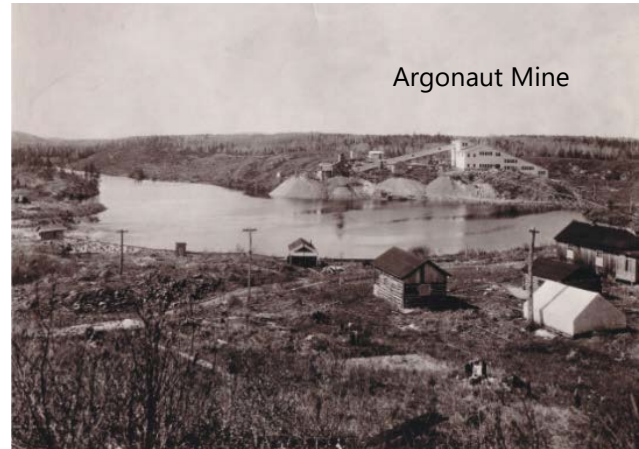
Agnico Eagle Mines, Limited (Agnico Eagle) is a senior gold mining company that has produced precious metals since 1957. It operates eight mines globally, including in the Abitibi Region of Canada and has more than 10,000 employees. Agnico Eagle is committed to creating value for our shareholders while operating in a safe, and socially and environmentally responsible manner, as we contribute to the prosperity of our people, their families and the communities in which we operate. Further information is available at: <https://agnicoeagle.com>.

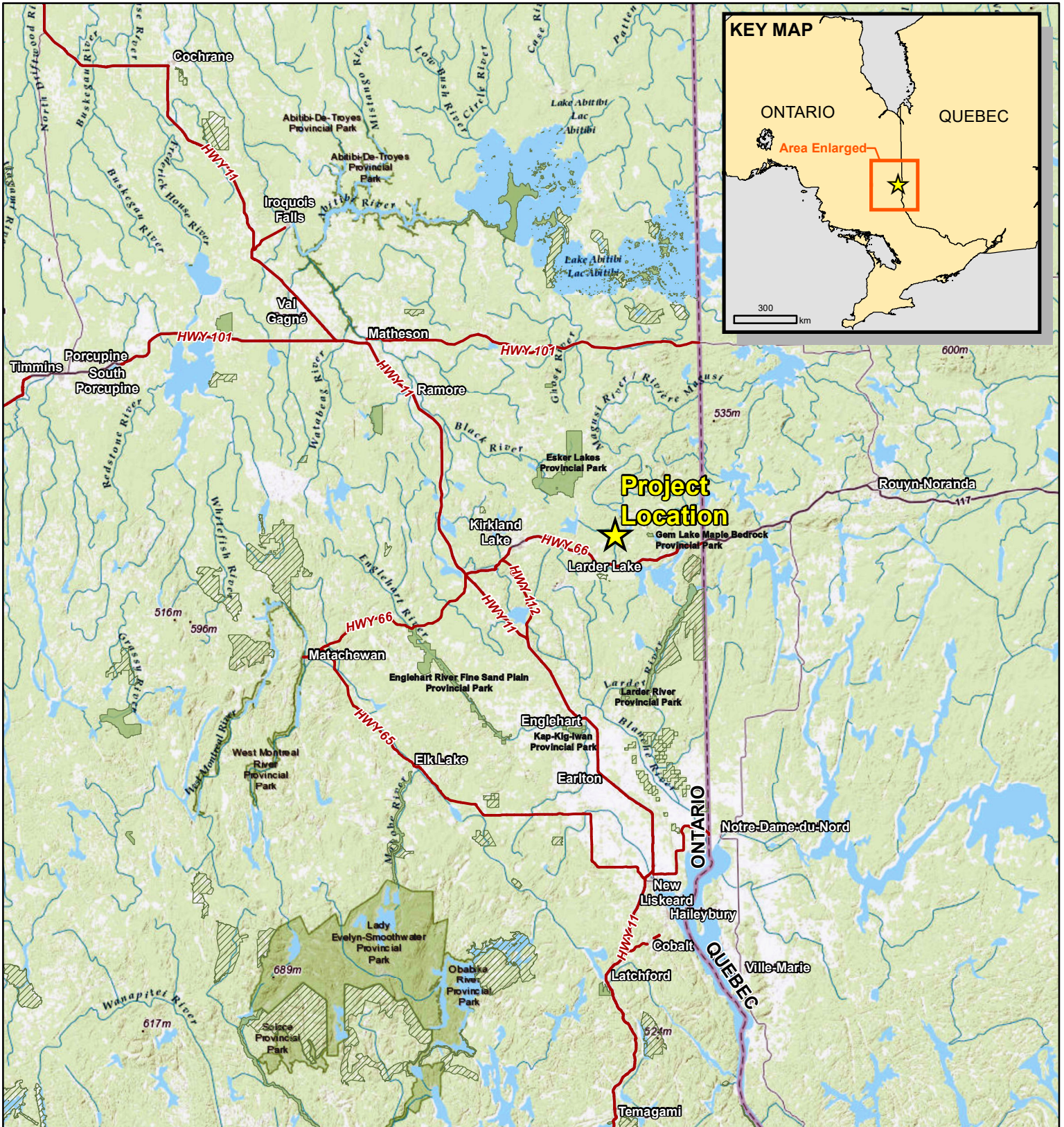
Agnico Eagle Mines Limited and Kirkland Lake Gold Ltd. announced on September 28, 2021, that they have entered into an agreement to combine in a merger of equals, with the combined company (to continue as Agnico Eagle Mines Limited). The two companies share a common culture of sustainable mining practices, and community engagement and support. Agnico Eagle will remain a leader in environmental, social and governance matters, committed to maintaining a strong workforce and culture, and robust Indigenous Peoples, community and stakeholder relations. Possible synergies with the Upper Beaver Gold project will be further assessed after the completion of the merger, and if conclusive, will be integrated to the Upper Beaver Gold project design and Impact Assessment, if appropriate.



The Agnico Eagle goal for the Upper Beaver Gold project is to develop a gold and copper mine and associated facilities and infrastructure, on the site of a former producing mine.

The Upper Beaver Gold project site was the location of mining between 1912 and 1971. The main mining periods were from: 1912 to 1919, 1919 to 1935 and 1965 to 1971, although there were other periods of exploration activity. A total of 477,794 tonnes of ore were processed at the past producing mines at the site.





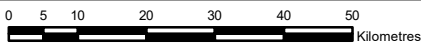
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LEGEND

- Project Location
- Regional Highways
- Conservation Reserve
- Provincial Park

NOTES:
 - Background topographic map information extracted from ESRI Base Map Services
 - Additional park information, conservation reserve and highway information extracted from Land Information Ontario (NDMNRF), Queen's Printer for Ontario, 2020/2021

Datum: NAD83
 Projection: UTM Zone 17N

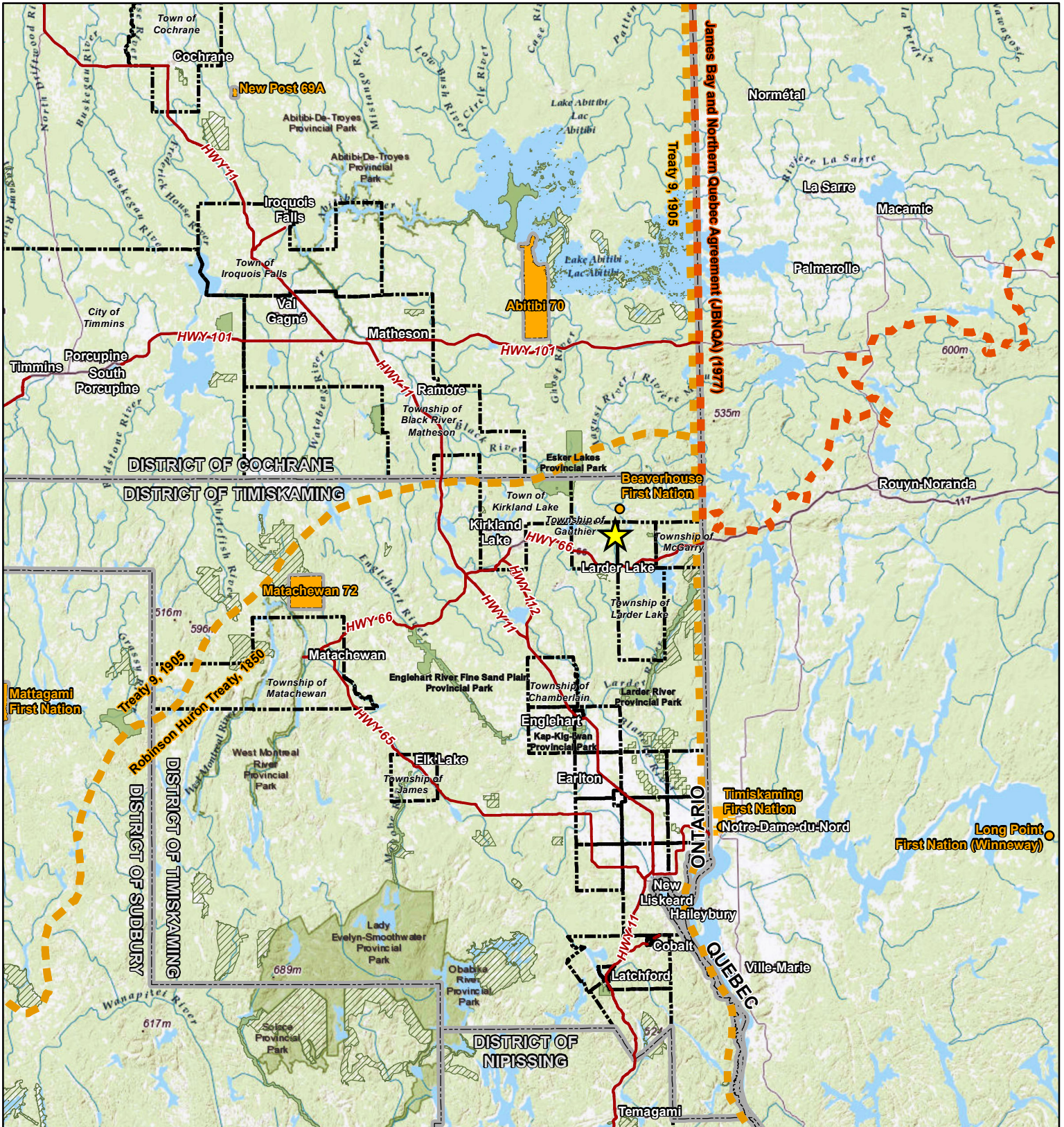


UPPER BEAVER PROJECT

Project Location

PROJECT N^o: OMEMA2008
 SCALE: 1:1,100,000

FIGURE: A.1
 DATE: December 2021



LEGEND

- Project Location
- Regional Highways
- Upper Tier Municipal Boundary
- Lower Tier Municipal Boundary
- Conservation Reserve
- Provincial Park
- First Nation Reserve/Community
- First Nation Treaty Boundary (modern)
- First Nation Treaty Boundary (historic)

NOTES:
 - Background topographic map information extracted from ESRI Base Map Services
 - Additional park information, conservation reserve, highway information and Upper and Lower Tier Municipal data extracted from Land Information Ontario (NDMNR), Queen's Printer for Ontario, 2020/2021
 - First Nation Treaty Boundaries (historic) extracted from "Historic First Nations Treaties in Canada - GIS dataset of pre 1930 treaty boundaries", 2000, Global Forest Watch Canada.
 - First Nation Treaty Boundaries (modern) extracted from Government of Canada Open Portal, 2019

UPPER BEAVER PROJECT

Regional Communities and First Nations

Datum: NAD83
 Projection: UTM Zone 17N



PROJECT N^o: OMEMA2008

FIGURE: A.2

SCALE: 1:1,100,000

DATE: December 2021



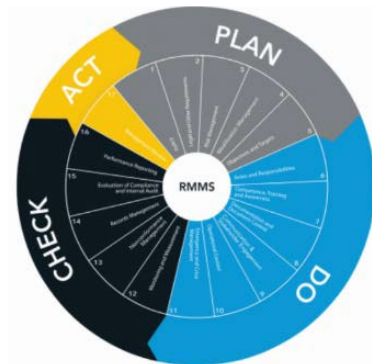
B. PLANNING PHASE RESULTS

B.1 Summary of Engagement with Stakeholders

In 2014, Agnico Eagle and his 50-50 Joint Venture Partner, Yamana Gold acquired the Upper Beaver property with the Canadian Malartic Corporation. More recently, on March 28, 2018, Agnico Eagle acquired 100% of interest in the project, giving Agnico Eagle 100% ownership of Canadian Malartic Corporation's interest of the Kirkland Lake properties. Prior to this acquisition, several stakeholders had already been met and were maintaining relationships with the project's representatives.

Agnico Eagle's mission is to build a high-quality, easy to understand business that generates superior long-term returns for shareholders, creates a great place to work for its employees and contributes positively to the communities in which the company operates. Agnico Eagle is committed to creating value for its shareholders while operating in a safe, socially, and environmentally responsible manner. Agnico Eagle's guidelines in community engagement matters have been implemented in the Upper Beaver Gold project context and will continue to be. These guidelines include:

- Maintain an open-minded and collaborative approach to build the best project possible in conjunction with the communities;
- Consider communities' questions, concerns and suggestions;
- Minimize the impact of the project on the users of the local area;
- Build a trusting relationship through dialogue and transparency, as more information becomes available; and
- Plan, Do, Check, Act: continuously to validate the process.



To identify potential interested persons, Agnico Eagle has completed a formal stakeholder analysis that is updated on a regular basis. Potentially interested stakeholders were identified at this early stage of the project using the following criteria:

- Proximity to the project:
 - Do parties live nearby?
 - Do they have jurisdiction over surface rights or an interest in the area where the project is proposed?
 - Can the project potentially affect the area or one of the land uses?
 - What are the specific interests of the group considering its proximity?
- Past or current interest in similar projects or developments in the region:
 - Have stakeholders been involved in the consultation processes in current or past projects in the region?

The following is a list of stakeholders that were consulted prior to, and during, the preparation of the Initial Project Description and this Detailed Project Description (note that a summary of engagement with Indigenous Nations is provided in Section B.2):

- Beaverhouse Lake cottagers and surface rights owners;
- Township of Gauthier;
- Town of Kirkland Lake;
- Township of Larder Lake;

- Citizens from the Kirkland Lake area;
- Kirkland Lake District Chamber of Commerce;
- Kirkland District Game and Fish Protection Association;
- Timiskaming Abitibi Trail Association;
- Kirkland and District Community Development Corporation;
- Stella-Jones and Eacom Timber Company;
- Ministry of Northern Development, Mines, Natural Resources and Forestry;
- Ministry of the Environment, Conservation and Parks; and
- Impact Assessment Agency.

Locations of the communities referenced above are shown in Figure A.2. Agnico Eagle plans to continue to engage with these stakeholders. It is possible that the list of stakeholders will expand as the project progresses.

Agnico Eagle has actively sought out dialogue with stakeholders related to the Upper Beaver Gold project, by means of:

- Meetings with its neighbours;
- Presentations to local municipalities and regulatory authorities;
- Frequent project update meetings;
- Information sharing by mail and email regarding proposed activities and works;
- Workshops as part of the implementation of the Good Neighbour Approach;
- Feedback survey with neighbours on the approach;
- Question and answer (Q&A) document shared with neighbours to provide more information on the project, the required authorizations and potential impacts.;
- Information and document sharing via a project-specific website:
<https://upperbeaver.agnicoeagle.com>
- Online public meeting, for which invitations were sent to all citizens from Dobie, Larder Lake, King Kirkland and Virginiatown; and
- Newsletters.

Investigations led to modifications to the initial project concept in 2020. In particular geotechnical findings have identified a significant risk for future underground development in the Upper Beaver Gold project area, due to a stability concern related to the lack of sufficient competent bedrock under York Lake and above the existing historic underground mine workings. Stakeholders were informed as soon as Agnico Eagle was aware that there were significant technical issues. When it was determined that the new findings were likely to result in a change to the conceptual project design, a specific engagement approach was initiated which includes the following good practices:

- Invite stakeholders to confirm the participants list;
- Agree on the agenda with the participants;
- Explain meetings objectives;
- Explain what kind of input was expected;
- Share and validate meeting reports with stakeholders to make sure they reflect the discussions; and
- Share presentations with participants.



Agnico Eagle met with representatives from federal and provincial regulatory authorities to present an overview of the project and anticipated effects, and to provide government experts opportunity to seek further information or clarification to Agnico Eagle to facilitate their review of the Initial Project Description. Agnico met with the following regulatory authorities for this purpose:

- Federal authorities: Employment and Social Development Canada, Environment and Climate Change Canada, Health Canada, Fisheries and Oceans Canada, Indigenous Services Canada, Indigenous and Northern Affairs Canada, Natural Resources Canada, Transport Canada and Women and Gender Equality Canada; and
- Provincial authorities: Ministry of Environment, Conservation and Parks, Ministry of Northern Development, Mines, Natural Resources and Forestry, Ministry of Transportation and Ministry of Heritage, Sport, Tourism and Culture Industries.

Key issues raised to date by stakeholders related and/or applicable to the Upper Beaver Gold project include:

- Project's potential impacts on the cottager's quality of life;
- Possibility of the expropriation of surrounding neighborhoods;
- Noise and dust generated by activities;
- Road safety and road traffic;
- Water management, water quality and water elevation; and
- Maximization of socioeconomic impacts.

As part of Agnico Eagle's intent to optimize engagement outcomes and consolidate relationships of trust with communities, the input received during the engagement activities conducted by Agnico Eagle has been documented in Appendix A. The table aims to show a direct relation between received input and results of engagement.

Issues identified by the Impact Assessment Agency including from engagement sessions conducted after approval of the Upper Beaver Gold project Initial Project Description, and responses provided by Agnico Eagle, are detailed in Appendix C and summarized briefly in Section B.3. Comments submitted to the Agency through this process, will be fully considered and addressed within the Impact Statement, if an Impact Assessment is required. As applicable, Agnico Eagle will follow up directly with interested stakeholders.

Good practices previously presented will continue to be implemented, and key objectives of engagement activities for 2021 and 2022 are:

- To inform stakeholders of the baseline studies process;
- To validate the engagement activities planned for 2021 and 2022 and adjust it if deemed necessary; and
- To hold workshop meetings with cottagers to agree on collaboration modalities and validate mitigation measures planned according to each phase of the project.

It is Agnico Eagle's intention to maintain engagement activities with stakeholders as the project progresses, as reasonable. A specific plan for future engagement in connection with the Impact Assessment process, if applicable, will be designed and validated with communities and the Agency.



Agnico Eagle will produce an inclusive Engagement Plan for 2022. The plan will include efforts to engage with and seek input from the local population, including nearby property owners around Beaverhouse Lake, within the Misema River system, and downstream stakeholders with regional interests. Agnico Eagle is open to evaluate the option of holding open house event; however, Agnico Eagle wishes to ensure that the engagement activities will be suitable for comments documentation in order that they can be properly addressed.

Agnico Eagle is committed to engaging with additional stakeholders as the Upper Beaver Gold project progresses to gather information on the current capacity / services and to determine potential impacts (positive and negative) of the mining project. Information gathered through engagement will support the impact statement. Engagement will be conducted with stakeholder groups, including but not limited to:

- Healthcare providers;
- Social service providers;
- Chambers of Commerce;
- Employment and training organizations; and
- General public.

An updated list of all stakeholders will be provided within the Impact Statement if an Impact Assessment is required.

Agnico Eagle will engage with diverse population groups, including women, men, youth, elders, as applicable, to understand varying perspectives. Engagement with diverse population groups will support the gender-based analysis plus (GBA+) framework that is anticipated to be completed in order to understand how diverse population groups could experience adverse effects from the project differently from others or be excluded from potential benefits, based on their identity factors.

As the COVID-19 pandemic is continually changing the environment, Agnico Eagle will adapt its methods of engagement accordingly and will host face-to-face meetings with stakeholders when they are open to meeting under the proper health protocols. Agnico Eagle will collaborate with stakeholders to create alternative solutions to engage despite the COVID-19 ongoing restrictions. For example, some meetings held during 2021 have been held outside or in wide spaces, allowing a safe environment for participants.

B.2 Summary of Engagement with Indigenous Nations and Peoples

Agnico Eagle will work in partnership with Indigenous Peoples to establish a mutually beneficial, cooperative and productive relationship. Agnico Eagle approach is characterized by effective two-way communication, consultation and partnering.

Agnico Eagle is committed to:

- Improve the understanding of each other's concerns and aspirations through meaningful consultation and cooperation with Indigenous Nations;
- Define capacity-building strategies with and for Indigenous Peoples in the development of Agnico Eagle operations and projects, more specifically regarding employment, education, training and business initiatives; and
- Understand the responsibilities to and respect of Indigenous Peoples for their traditional cultures.



To identify interested Indigenous Nations for the Upper Beaver Gold project, a formal partner analysis has been completed by Agnico Eagle, which is updated on a regular basis. Interested Indigenous Nations were identified using the following criteria:

- Indigenous Nations identified by the Ministry of Northern Development, Mines, Natural Resources and Forestry to which the Crown has a duty to consult for exploration and the advanced exploration project;
- Proximity to the project;
- Past or current interest in similar projects or developments in the region;
- Historic and current land use and occupation:
 - Have any Indigenous Nations publicly asserted that they or their ancestors traditionally used or occupied lands encompassing the project's site and its related proposed infrastructure?
 - Do any of the Indigenous Nations identified by the Ontario government for engagement have traditional land on which the project is located?
- Potential impacts related to potential biophysical or socio-economic effects of the project.

The following list shows Indigenous Nations that may be affected by the project with whom Agnico Eagle has engaged with prior to and during preparation of the Initial Project Description and this Detailed Project Description. The year Agnico Eagle began fostering relationships with each Indigenous Nation is provided to illustrate the long-lasting collaborative work:

- Beaverhouse First Nation (BHFN) – since 2009;
- Matachewan First Nation (MFN) – since 2010;
- Wahgoshig First Nation (WFN) – since 2009;
- Timiskaming First Nation (TFN) – since 2014; and
- Métis Nation of Ontario (Region 3; MNO) – since 2011.

Locations of the related First Nation Reserves and/or communities are shown in Figure A.2. Through the long history of engagement activities for exploration and advanced exploration programs between 2009 and 2020, no other Indigenous Nation has indicated an interest to be informed and engaged about the project activities.

In July 2021, the Impact Assessment Agency provided Agnico Eagle with a preliminary list of Indigenous Nations that could potentially be impacted by the Upper Beaver Gold project based on their preliminary assessment. Agnico Eagle sent letters to each of these identified First Nations to inform them of the submission of an Initial Project Description to the Impact Assessment Agency and the potential for participation in the planning process. New Indigenous Nations communicated an interest in the Upper Beaver Gold project, during the engagement process conducted by the Agency for the Initial Project Description. The Taykwa Tagamou Nation and Temagami First Nation indicated that carrying out the project may impact their Aboriginal and/or Treaty rights. Agnico Eagle is open to engage with new Indigenous Nation(s) that could be potentially impacted by the project.

Agnico Eagle actively promotes dialogue with Indigenous Nations in relation to the Upper Beaver Gold project. The engagement activities Agnico Eagle carries out include:

- Quarterly project update meetings with Chiefs and Band Councils;
- One-on-one meetings when requested;
- Site visits and field inspections as appropriate, requested or included in agreements;



- Environmental Advisory Committee (which includes 4 of the 5 Indigenous Nations listed above);
- Notifications of activities;
- Summary of upcoming regulatory submissions timeframe for easier understanding;
- Notice by email and/or phone prior to regulatory submissions, and provision of draft documents for review where appropriate;
- Meeting reports shared and validated with participants
- Information and participation in baseline studies for validation with Indigenous Nations;
- Engagement, collaboration and validation of the Indigenous Knowledge studies;
- Information and documents sharing via a project-specific website: <https://upperbeaver.agnicoeagle.com/>; and
- Online public meeting, for which invitations were sent to all Indigenous Nations that Agnico Eagle engages with.

Agnico Eagle and the previous owners, have completed environmental baseline studies since 2011, including to support of the Advanced Exploration permit process. Agnico Eagle completed a comprehensive gap assessment, and conducted additional environmental baseline studies during 2021 to fill the identified information gaps and support development of an Impact Statement if needed. In preparation for this work, Agnico Eagle met with the five local Indigenous Nations normally engaged (BHFN, MFN, WFN, TFN and MNO), to inform them about the upcoming baseline field work. Opportunities for participation were presented to the communities, to inform Indigenous Nations and to invite them to share their interest in advance. Prior to field work, Agnico Eagle reached out to them to determine if there was an interest in participating or in observing the environmental baseline investigations. As a result, several members of the local Indigenous Nations have been participating and/or observing field activities through 2021 (water sampling, terrestrial investigations, hydrology field work, aquatic resources programs and archaeology).

Indigenous Nations have also been invited to provide preliminary input about the country foods to orient the terrestrial field work done in 2021. The results of the baseline work will be presented to the local Indigenous Nations, so that they can comment and give their feedback. Local Indigenous Nations will continue to be invited to participate in field activities.

Community specific activities in addition to the above include:

- Exploration and accommodation agreements signed with four of the five Indigenous Nations;
- Implementation committee meetings and annual reports for signed agreement;
- Best effort to promote jobs and contracts;
- Business opportunities aspects in agreements;
- Negotiation and establishment agreements;
- Collaborative environmental monitoring including follow-up meetings when required;
- Training and capacity building offered when possible;
- Invitation to members of these Indigenous Nations to be included in archaeological resource assessments when such a study is related to their Nation;
- Sponsorship of community activities;
- Participation in community events, such as Family Day, Ice Fishing Day, Pow wow and Symposium; and
- Community members meetings on the project and on water management.



Agnico Eagle is engaging with local Indigenous Nations to outline the support required to participate in the Impact Statement process, should an Impact Assessment be required, when not covered by existing agreement(s).

Engineering investigations during 2020 led to modifications to the initial project concept. Geotechnical investigations identified a significant risk for future underground development in the Upper Beaver Gold project area. Indigenous Nations were also informed as soon as Agnico Eagle was aware that there were technical issues in that area. When it has been determined that the new findings were likely to result in a change to the project design, a specific engagement approach was initiated, which includes the following good practices:

- Invite Indigenous Nations to confirm participants list;
- Offer technical support for the use of videoconference software when necessary;
- Agree on the agenda with the participants;
- Explain meetings objectives;
- Explain what kind of input was expected;
- Share and validate meeting reports with participants to make sure they reflect the discussions; and
- Share presentations with participants.

Key issues raised to date by Indigenous Nations related and/or applicable to the Upper Beaver Gold project include (note that this is not a complete list and engagement is ongoing; Appendix B should also be reviewed):

- Maintenance of access to sites of interest such as the Beaverhouse Lake boat launch, the Traditional Trail and the Beaverhouse Lake access;
- Potential impacts (direct and indirect) to traditional sites;
- Consider Indigenous Knowledge during the Impact Assessment process, and respect the confidentiality of Indigenous Knowledge and Land Use information;
- Consideration of potential impacts on wildlife (and including Moose and furbearers) in the project's mitigation measures;
- Consideration of potential impacts on water quality, fish habitat and fish populations in the project's mitigation measures;
- Participation in baseline studies (i.e., wildlife, aquatics, etc.); and
- Enhancement of positive socio-economic effects while minimizing adverse socio-economic effects.

As part of Agnico Eagle's will to optimize engagement outcomes and consolidate relationships based on respect and trust with Indigenous Nations, input collected during the engagement approach conducted by Agnico Eagle with Indigenous Nations before and during the preparation of the present Initial Project Description, has been documented in a table in Appendix B. The table aims to show direct relation between received input and results of engagement.

Issues identified by the Impact Assessment Agency including from engagement sessions conducted after approval of the Upper Beaver Gold project Initial Project Description, and responses provided by Agnico Eagle, are detailed in Appendix C and summarized briefly in Section B.3. Comments submitted to the Agency through this process, will be fully considered and addressed within the Impact Statement, if an Impact Assessment is required. As applicable, Agnico Eagle will follow up directly with interested Indigenous Nations.

Good practices previously presented will continue to be implemented. Future activities are anticipated including the continuation of the activities completed to date as described above. Main topics and objectives for the engagement activities are:

- To involve Indigenous Nations in the baseline studies process depending on each Nations' topics of interest and capacities;
- To validate with Indigenous Nations the engagement activities planned in 2021 and 2022, and adjust them if deemed necessary;
- To collaborate with Indigenous Nations for Indigenous Knowledge study production to inform baseline conditions and Impact Statement;
- To validate with Indigenous Nations regarding interpretation and use of Indigenous Knowledge in the Impact Statement; and
- To inform Indigenous Nations on proposed activities and work by mail and email; Newsletters.

Agnico Eagle will invite Indigenous Nations to participate in information and planning sessions. This will help Agnico Eagle to understand and value Indigenous Knowledge while refining project planning for topics such as:

- Impacts reduction, mitigation and monitoring approaches;
- Water and wastewater management plans;
- Mine rock management plans;
- Decommissioning and closure plans;
- Remediation of historical mine contamination; and
- Land use plan for the site after decommissioning.

To do so, Agnico Eagle will continue to engage with Indigenous Nations following community-specific protocols and expectations, promoting advanced notification and time for participation through culturally appropriate means. Notifications have been, and will continue to be provided in advance as much as reasonable, recognizing that there could potentially be regulatory time constraints associated with some engagement activities.

Agnico Eagle is collaborating with local Indigenous Nations to outline and support the development of community-specific Indigenous Knowledge studies, which include land and resource use, knowledge from community Elders and validation with the community. Agnico Eagle will work with Indigenous Nations to understand, incorporate, and validate how this knowledge will be used in the Impact Statement, if applicable.

Additionally, Agnico Eagle will engage with diverse population groups, including women, men, youth, Elders, as applicable, to understand various perspectives. Engagement with diverse population groups will support the gender-based analysis plus (GBA+) framework that is anticipated to be completed. This analysis will provide an understanding on how diverse population groups could experience adverse effects from the project differently from others or be excluded from potential benefits, based on their identity factors. Through engagement with local Indigenous Nations, an approach to gathering GBA+ information and applying to the project will be co-defined. This approach will be described within the Impact Statement if an Impact Assessment is required, as appropriate.

It is Agnico Eagle’s intention to maintain engagement activities with Indigenous Nations as the project progresses. Agnico Eagle is committed to ongoing engagement with Indigenous Nations that is clear and transparent. Agnico Eagle will be looking to work with local Indigenous Nations to produce an inclusive Engagement Plan for 2022. An updated list of all Indigenous Nations that Agnico Eagle will engage with will be provided within the Impact Statement if an Impact Assessment is required.

As the COVID-19 pandemic is continually changing the environment, Agnico Eagle will adapt methods of engagement accordingly and will host face-to-face meetings with Indigenous Nations when they are open to meeting under the proper health protocols. Agnico Eagle will collaborate with Indigenous Nations to create alternative solutions to engage despite the COVID-19 ongoing restrictions. For example, meeting outside or in wide spaces, allowing a safe environment for participants.

B.3 Summary of Issues

As part of the federal Impact Assessment Planning Process, the Impact Assessment Agency provided Agnico Eagle with a Summary of Issues based on the Agency consultation after the acceptance of the Initial Project Description. The issues identified by the Agency are consistent with what Agnico Eagle has heard through their consultation and engagement activities. The following table (Table B.1) provides a summary of some of comments provided and Agnico Eagle’s response.

Table B.1: Summary of Representative Comments in Summary of Issues and Responses

Summarized Comment	Summarized Response
Need for completed updated baseline studies to identify if the Project will have positive or adverse effects	Environmental baseline studies have been completed previously or are ongoing for a number of topics, including related to fish and fish habitat, wildlife including migratory birds, Species at Risk, air quality, ambient light, sound, geochemistry, water quality and sediments, hydrology, groundwater and socio-economics.
Where potential effects and mitigation measures are proposed, need for characterization of residual effects	If an Impact Assessment is required, the potential negative and positive effects of the project on the environment will be assessed and mitigation measures proposed, using a standardized methodology.



Summarized Comment	Summarized Response
Need for further information on net greenhouse gas emissions for each separate phase of the Project (e.g. carbon footprint)	An assessment of potential greenhouse gas emissions will be conducted for each phase of the project aligned with the Strategic Assessment on Climate Change if an Impact Assessment is determined to be required.
Need for further information on potential impacts on human health from exposure to air pollutants and increased noise levels	All site emissions and discharges, including air and noise emissions, will be required to meet the strict Ontario regulatory requirements. Should an Impact Assessment be required, potential effects from air emissions and noise levels will be assessed and a description of proposed mitigation / monitoring measures provided.
Potential effects on current and future use of lands such as for fishing, hunting, harvesting and gathering, teaching, and knowledge sharing; resources; and access to sites of cultural significance.	Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects in the Impact Statement, if an Impact Assessment is required.
Need for further information and design of all proposed project components	Further information regarding the proposed project will be provided in the Impact Statement if an Impact Assessment is required. Where appropriate alternative methods will also be described in order to provide additional clarity on why the preferred project components were selected.
Need for an analysis of alternative means for carrying out the Project, including mining without draining York Lake and tailings storage	Technically and economically feasible alternative means will be considered during future regulatory documentation, including for mining and tailings storage. Based on expert studies completed during 2020, Agnico Eagle has not identified any feasible alternative means of carrying out the Project without diverting Ava Lake / Misema River around York Lake.
Potential cumulative effects - due to current and historical mineral exploration activities, existing mine hazards, nearby forestry activities, downstream water control structures and hydroelectric developments	Agnico Eagle is purposefully developing the Upper Beaver Gold project, to expand and/or modify facilities that are being developed during the advanced exploration program in order to minimize environmental disturbance as practical. Cumulative effects will be assessed in the Impact Statement in accordance with the Impact Assessment Agency of Canada guidance, if an Impact Assessment is required.
Need for further study on the effects of, and resilience of, project infrastructure - including tailings storage facilities, waste management areas, site drainage and water diversion structures - to climate change	The Upper Beaver Gold project has an expected life of approximately 14 years or more years of operation, plus construction, decommissioning and closure phases. The project does not include any long term water impoundments. Expected climatic conditions will be fully considered in the design of project facilities and infrastructure as applicable, including any potential changes from the current climate due to climate change based on accepted models.



Summarized Comment	Summarized Response
Need for information on how the Proponent will prevent accidents and malfunctions. Need for information on emergency response plans and procedures	Agnico Eagle considers safety of people and the environment at the Upper Beaver site a priority. The open pit mine is proposed in order to remove a known hazard related to the stability of historic underground workings, as well as historic mining wastes in the lake. Agnico Eagle will establish appropriate, practical emergency response plans and procedures prior to construction.
Engagement activities must be respectful of Indigenous protocols and knowledge. Notification of engagement activities must be provided in advance to Indigenous groups	Agnico Eagle will continue to engage with Indigenous Nations in a means acceptable to the communities, promoting advanced notification and time for participation through culturally appropriate means, recognizing that there could potentially be regulatory time constraints.
Need for further information on efforts to engage with and seek input from the local population, including nearby property owners, and downstream stakeholders with regional interests.	Agnico Eagle has been engaging with the local population and other stakeholders for nearly ten years. Agnico Eagle will produce an inclusive Engagement Plan for 2022 to seek input. Engagement activities will be selected to ensure that comments can be document so that they can be addressed properly by Agnico Eagle.

A copy of the Summary of Issues and responses provided by Agnico Eagle is provided in Appendix C. Where applicable, additional information has been provided in this Detailed Project Description.

B.4 Regional Studies / Assessments

In discussion with the Impact Assessment Agency, there are no other relevant regional studies / assessments. There are no regional studies or Regional Assessments close to the location of the proposed project.

Project-specific environmental and engineering studies are ongoing to inform the design and approvals process for the Upper Beaver Gold project.

B.5 Strategic Assessments

This Detailed Project Description has fully considered the Strategic Assessment of Climate Change developed by Environment and Climate Change Canada, including assessment of net greenhouse gas emissions associated with the project (see Section F.5). In discussion with the Impact Assessment Agency, there are no other applicable strategic assessments.



C. PROJECT INFORMATION

C.1 Purpose and Need for Project, and Potential Benefits

The purpose of the project is to produce gold doré bars and copper concentrate for sale, by constructing and operating a mine, processing plant and associated facilities (the Upper Beaver Gold project). A preliminary site plan is provided in Figure C.1 and cross section schematic of the proposed mine development is shown in Figure C.2. Doré bars and copper concentrate are semi-pure products of gold and silver, and copper that will be trucked off site for further purification. Gold and copper are metals with many applications resulting in a need for these materials, including:

- Building construction including wiring (copper);
- Art, jewellery, medals and tableware (copper and gold);
- Computers and electronics (copper and gold);
- Medical tools and devices (copper and gold); and
- As a monetary exchange medium or coins (gold and copper).

The demand for copper and gold is anticipated to grow in coming years.

The corporate strategy of Agnico Eagle is to build and to maintain a pipeline of high-quality mining projects, to replenish mineral reserves and production on an on-going basis, while maintaining the quality, manageability and fit of the Agnico Eagle future portfolio. Based on information currently available, the Upper Beaver Gold project meets this corporate need.

On a broader scale, metal mining is needed because it is a major economic driver for Ontario and Canada. It provides a large number of direct jobs and indirect employment. In Ontario, mining creates 26,000 direct jobs and approximately another 46,000 indirect jobs (OMA 2021). The Upper Beaver Gold project is expected to have a positive effect on the local and regional economy. During all consultation activities to date, Agnico Eagle have received inquiries and comments regarding employment, business and training opportunities. Up to approximately 400 to 600 permanent jobs are anticipated from the project, as well as a large number of contracts for qualified contractors in the region. Agnico Eagle is committed to collaborating with Indigenous Nations to develop and expand current cultural awareness training and will provide the training to project personnel and subcontractors on an ongoing basis.

The project is not expected to result in a large change in regional or local population but may contribute to modest growth in the base population within commuting distance from the site. Training and work experience are expected to result in capabilities that are transferable to other economic sectors for local residents and contractors. During the Impact Assessment, potential changes / effects (both positive and negative) will be assessed, and plans to monitor, measure and mitigate the negative effects and enhance the positive effects will be identified.

With respect to the need for the production of gold and copper:

- Gold is used within the monetary system of many countries, in jewellery and art, and for industrial uses such as electroplating; and
- Copper is heavily used in electrical equipment, industrial machinery and in construction, taking advantage of its conductivity properties.



The objective of the Upper Beaver Gold project is to provide a return on investment to shareholders of Agnico Eagle while operating in a socially and environmentally responsible manner following the Agnico Eagle Sustainable Development Policy, accessible at:

<https://www.agnicoeagle.com/English/sustainability/our-approach-and-commitments/default.aspx>.

C.2 Applicable Physical Activities Regulation Provisions

A federal Impact Assessment for the Upper Beaver Gold project could potentially be required under two scenarios:

- If the project meets the requirements under the *Impact Assessment Act*; or
- If the project is designated by the federal Minister of Environment and Climate Change Canada as requiring an Impact Assessment.

If the following provisions of the Physical Activities Regulations (SOR/2019-285) pursuant to the *Impact Assessment Act* are met (or others not listed below), documentation must be provided to the Impact Assessment Agency to assess whether an Impact Assessment is required. The following conditions of the regulation may apply to the Upper Beaver Gold project based on the current preliminary project design:

18 The construction, operation, decommissioning and abandonment of one of the following:

(c) a new metal mine, other than a rare earth element mine, placer mine or uranium mine, with an ore production capacity of 5,000 tonnes per day (tpd) or more

(d) a new metal mill, other than a uranium mill, with an ore input capacity of 5,000 tpd or more.

60 The construction, operation, decommissioning and abandonment of a new structure for the diversion of 10,000,000 cubic metres per year (m³/yr) or more of water from a natural water body into another natural water body.

Based on the current project design, the maximum rate of ore mining and processing at the Upper Beaver Gold project is expected to be between 4,000 and 10,000 tpd. The mean annual flow of the Misema River at Beaverhouse Lake near where it will require diversion, has been estimated as in the order of 90 million m³ per year (2.9 m³/second). The Upper Beaver Gold project is therefore expected to meet the conditions listed above of the Physical Activities Regulations, and Agnico Eagle is submitting this Detailed Project Description for review by the Impact Assessment Agency.

The Upper Beaver Gold project is not part of a larger project that is not listed on the Project List.

C.3 Activities, Infrastructure, Structures and Physical Works

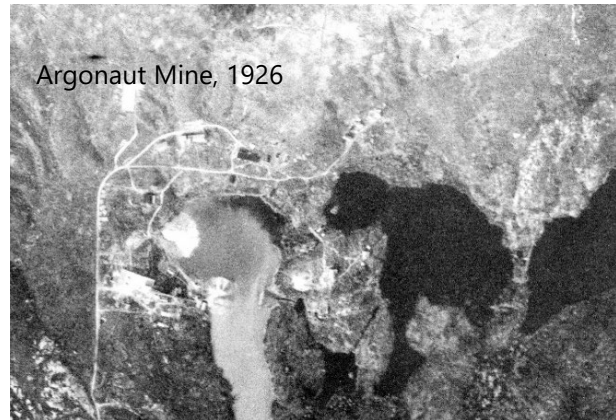
C.3.1 Overview

Agnico Eagle is planning to develop, operate and eventually reclaim a new underground and open pit, gold and copper mine at the Upper Beaver Gold project site. The mine will expand upon and/or modify historical underground workings, as well as facilities being developed as part of the proposed advanced exploration program where practical, in order to mitigate and/or reduce environmental impacts.



C.3.2 Existing Historical Facilities and Infrastructure

The Upper Beaver Gold project site has a long mineral exploration and development history. Gold was discovered west of Beaverhouse Lake in 1912. Since that time there have been ongoing but periodic times of exploration and underground mine / development, as well as a number of ownership changes as is typical of the northeastern Ontario historic mining areas.



The names associated with the past production periods were:

- La Mine d'Or Huronia, 1912 to 1919;
- Argonaut Gold Mines, 1919 to 1935; and
- Upper Beaver Gold Mines, 1965 to 1972.

Table C.1 provides a summary of the existing mine hazards present on the site or in the immediate vicinity of the proposed Upper Beaver Gold project. By establishing an open pit, Agnico Eagle will mitigate some of these historic liabilities, including historic tailings and mine rock in York Lake. Agnico Eagle will consult with primary stakeholders and Indigenous Nations regarding remediation of the historic liabilities present. The location and scale of the facilities is shown in Figure C.3.

Current and past owners have taken actions to protect the public from the historic mine hazards on the property, including rehabilitation, fencing installation and repairs, and placement of appropriate signage.

C.3.3 Ongoing Exploration-related Facilities and Infrastructure

Periodic surface drilling programs have been ongoing for a number of years at the Upper Beaver Gold project site and may continue as needed to support resource delineation (exploration) and to collect technical information (geotechnical and hydrogeological information). These programs are typically supported by temporary mobile trailer(s) and drill rig(s). The background image shown in Figure C.1 reflects past tree clearing at the site related primarily to forestry or exploration activities.

Agnico Eagle is also conducting other exploration programs in the region that are unrelated to the Upper Beaver Gold project, which may or may not continue in parallel with the project.

Agnico Eagle currently has environmental applications in progress with provincial ministries for an advanced exploration program that could be started in 2022 to collect a bulk sample of approximately 60,000 t from at least three underground areas at the Upper Beaver Gold site. The bulk sample and associated test work is required to confirm future mining and milling methods for production mine (the Upper Beaver Gold project). The existing historic underground working will be accessed to extract the bulk sample by means of an exploration shaft and new portal.

Facilities required to support the advanced exploration program include:

- Exploration shaft to underground;
- Surface exploration portal and ramp to access the underground workings;
- Underground workings;

- Air intake (1) raise (narrow inclined opening to underground from surface) with associated heating equipment and exhaust raises (2) for ventilation underground;
- Mine rock stockpile (approximately 2,000,000 t);
- Overburden stockpile (approximately 250,000 t);
- Ore pad, stockpile (approximately 60,000 t) and sorting area;
- Shaft complex (headframe, hoist room, compressor house, mine dry (change room), maintenance shop);
- Modular offices, lunchroom and first aid (currently present);
- Storage building and laydown area(s);
- On-site roads, security gatehouse, security fencing and parking;
- Diesel fuel tanks (<100,000 litres) and propane tanks;
- Electrical substation and emergency generator;
- Water management facilities (retention pond, collection ponds, ditching, treatment plant and effluent discharge pipeline);
- Sewage treatment plant and potential potable water treatment plant;
- Temporary industrial waste storage bins;
- Fresh water intake and pump house;
- Explosives magazine / storage (on surface and underground);
- Refurbishment of the 44 kilovolt (kV) power distribution line from Highway 66;
- Potential aggregate source on site; and
- Improvements to existing site access road (Beaverhouse Road) including culverts if needed.

Ongoing activities related to exploration and advanced exploration programs are expected to include:

- Obtaining environmental approvals for the advanced exploration program;
- Ongoing consultation and engagement regarding the advanced exploration program;
- Completion of detailed engineering studies and associated field investigations;
- Completion of legal / business / land agreements if any;
- Corporate (internal) decision to proceed to mining based on results of advanced exploration program;
- Hiring of individuals and contractors;
- Dewatering of the mine to allow safe access and treatment of the mine water withdrawn;
- Development / re-development of a shaft to underground (approximately 1,500 m depth);
- Establishment of a headframe, hoist room and associated buildings and infrastructure;
- Development of a portal and ramp for access the ore body at depth at approximately the 1,390 m level;
- Use of explosives underground to break up rock to allow removal to the surface and off site as needed;
- Development of raises and ventilation infrastructure to provide safe working conditions underground;
- Extraction and transport of waste mine rock to the surface for storage;
- Extraction of a bulk ore sample at depth for shipment off site for additional testing and study;
- Completion of exploration drilling from underground;
- Maintenance of above ground and below ground equipment and facilities;



- Circulation of warmed air and ventilation of air from the underground workings;
- Pumping, treatment and discharge of mine water from the underground workings;
- Control of emissions of dust and noise;
- Environmental monitoring, including as required by environmental approvals;
- Maintenance of site security; and
- Progressive and final reclamation of the site, including exploration / advanced exploration facilities as applicable, if decision to proceed to mine development does not occur.

Once the advanced exploration program is approved, ore samples (less than 60,000 tonnes) can be taken from the underground workings to be trucked off site for testing to help determine if the Upper Beaver Gold project will go ahead and to support final project design. There will be no processing of ore extracted from underground during the advanced exploration program on site and no tailings storage on the site. Workers for the advanced exploration project, like for the current surface exploration program and for the future mine, will commute to the site daily and live in local communities.

C.3.4 Proposed Mine Facilities and Infrastructure

Agnico Eagle is planning to develop, operate and eventually reclaim a new open pit and underground, gold and copper mine and processing facility at the Upper Beaver Gold project site. The underground mine and associated surface facilities are proposed to be placed on lands held by Agnico Eagle. The placement of proposed facilities for the Upper Beaver Gold project (as was the case for the advanced exploration facilities), fully consider the location and stability of historic underground workings. Agnico Eagle will continue to assess the ongoing hazards and potential for accidents and malfunctions related to the historic and proposed operations at the site during future activities. Where appropriate, advanced exploration facilities will be utilized and/or expanded on the as practical to minimize environmental effects. Advanced Exploration facilities not required or modified for the mine, are anticipated to be reclaimed during the mine operation phase.

Table C.2 lists the major facilities and compares the advanced exploration and proposed mine site plans for clarity on the proposed mine facilities and infrastructure. The list of the primary Upper Beaver Gold project facilities and infrastructure is based on the current preliminary design and is subject to change with additional engineering.

The underground and open pit mine are proposed to operate year-round on a continuous (24-hour) basis, except for periodic maintenance and similar disruptions. Extracted ore from the mine will be transported to the surface for processing in on-site facilities. The pit will be in operation for only the first four or five years of operation. Based on the proposed processing rate and current information regarding the ore body, the life of the mine could extend 14 years or more years.

C.3.4.1 Underground Mine

The underground mine will expand on the historical / advanced exploration workings. Ore will be extracted from stopes (rooms) underground by conventional drilling and blasting. Oversized rocks will be managed through secondary blasting, use of a rock breaker and/or at an underground crushing facility, if developed. All ore will be either trucked to the surface via a ramp or transported via the shaft. Personnel will also access to the underground workings by means of the ramp but primarily by shaft.



Mineral waste associated with the mine development will be re-used to backfill the mine as practical. Excess mineral waste (mine rock) that cannot be re-used underground immediately but cannot be retained underground, will be stored on surface in a stockpile. The rock may be returned underground as needed for support, re-used as aggregate if warranted by rock geochemistry, or will remain on surface and be reclaimed in place.

Underground mining alone or in combination with open pit mining described below, will occur at a rate of approximately 4,000 to 10,000 tpd of ore as an annual average. The mining rate will be confirmed through ongoing engineering and design activities. Underground mining operations will be supported by necessary ventilation-related infrastructure and a surface or underground explosives storage facility.

C.3.4.2 Open Pit and Diversion

A portion of the ore body proposed for underground mining that is key to the Upper Beaver Gold project economic viability (and already mined historically) is located at relatively shallow depth near York Lake. Rock stability investigations between 2018 and 2020 by specialized consultants (Golder Associates and Knight Piésold) identified that there was insufficient competent rock (termed crown pillar) above the existing underground mine workings for safe underground mining to occur in the future. The historical mining that occurred at site from 1912 to 1928 left a complex network of underground stopes, raises and mining development. None of these underground workings were backfilled because the connectivity of the stopes and raises was crucial for fresh air circulation for the workers at the time.

In the most critical cases, approximately 20 metres (m) of unconsolidated materials and 20 m of bedrock are present above the existing mine workings. The crown pillar of the historical stopes below York Lake is even less; only 16 m of unconsolidated materials above 12 to 15 m of fractured rock. Agnico Eagle and their technical consultants are concerned that mining under this material could cause an instability.

Proceeding with underground mining without dealing with the crown pillar issues was deemed unacceptable to Agnico Eagle, as it could directly affect the safety of mine workers if any are present at the time. Failure of the crown pillar could also have a significant effect on the local surface water system.

As a result of this of rock stability assessment, Agnico Eagle investigated a number of potential engineering options that would support development of a new mine at the Upper Beaver Gold site.

- Geotechnical stabilization of the crown pillar by means of a freezing technique;
- Sterilization of resources and reserves by maintaining a safe distance from all historic mining;
- Remote construction of underground bulkheads to isolate the historical mining; and
- Surface mining through the crown pillar with diversion of a portion of the York Lake / Misema River system.

Following review of expert studies and an internal assessment, it was determined that the best option for mining to proceed would be to divert the water flowing from Misema River into the York Lake around the area, and remove the sediments and rock under the lake as well as the ore by an open pit. This would mitigate any short term or long term instability concerns with the crown pillar, would provide the opportunity to rehabilitate the historic tailings and mine rock located in and beside York Lake, and maintain the viability of the project. This is the only option that would allow the Upper Beaver Gold project to proceed and leave the site in a better condition for future public access from the perspective of historic underground mine stability.

Agnico Eagle proposes to develop an open pit that will partially intersect York Lake at surface, but avoid Victoria Creek to the west. The pit will be about 100 m depth and 300 m in diameter. The benches in rock will be developed by blasting using an explosive. Water in the open pit will be managed by an underground pumping station that will keep the open pit dry. As needed, small pumps will be installed in the base of the pit for trapped water. Excess water will be pumped to the surface for management. The slopes of the pit walls will be designed for safety based on industry standards.

In order for the open pit to be developed, channels will be created and dykes placed, so that the Misema River can be safely diverted just around York Lake maintaining the integrity of the river system. The conceptual design subject to detailed engineering has four short dykes (approximately 10 to 75 m in length) placed at the west end of Ava Lake and below York Lake, and two channels (25 and 125 m in length) joining Ava Lake directly to the Misema River downstream of York Lake (Figure C.1). The northernmost dyke is anticipated to be situated upstream of the main natural connection between Ava Lake and York which is currently a shallow rapid section leading from a shallow (0.75 m deep) section of Ava Lake.

The dykes will be designed to prevent water from entering the open pit area. The diversion channels will provide the new path for the water to flow from Ava Lake to the Misema River. They will be designed to mimic natural hydrologic conditions, and to handle the necessary water flows as well as passage of fish, at least equivalent to the current conditions. Creation of enhanced aquatic habitat within the channels, as compared to the natural condition of the current connection between Ava Lake and York Lake, is being considered.

After the dykes and channels are in place and stable, fish will be transferred from York Lake to other selected waterbodies. Agnico Eagle will work closely with Indigenous Nations and regulators to develop an acceptable plan to relocate the fish. The fish removal plan will include the means of fish removal, care and handling measures, and identification of adjacent waterbodies that can receive the fish based on suitable habitat and the fish species present. Once the fish removal process is complete, York Lake will be dewatered. There is the potential that on closure of the mine, the open pit could be reflooded to create a larger lake at the current York Lake location.

Ongoing exploration has also identified small ore deposits close to the surface on the plateau area south of the tailings storage facility. This mineralized zone could potentially be extracted without loss of potential resources, while providing additional opportunities for site water management.

C.3.4.3 Stockpiles

Stockpiles will be created on the site to store ore, mine rock, overburden and organics resulting from the open pit and underground mine development. There will also store overburden and organics stripped during general site development. The current design has mine rock from the operations phase stored in an expansion of the advanced exploration mine rock stockpile. A new ore stockpile, overburden stockpile (Figure C.1) and organics stockpile (location to be determined) will be created by the mine development.

Preliminary storage capacities of the stockpiles for the Upper Beaver Gold project are the following, subject to revision during ongoing engineering:

- Run of mine ore stockpiles: approximately 0.3 to 0.5 million tonnes (Mt);
- Mine rock stockpile: approximately 11 Mt; and
- Overburden / organics stockpile: approximately 1.5 Mt.



A low grade ore stockpile and potentially a temporary stockpile for off-site ore transported to site for processing may also be created. Runoff from the stockpiles will be collected in ditches / ponds for additional management, re-used for ore processing, or treated to meet discharge criteria (if the criteria are not already met), and discharged to the environment. Additional details will be available regarding the stockpile designs as the engineering studies progress and a better estimation of stockpiling requirements becomes available. It is unknown at this time whether stockpile(s) will overprint minor creeks which may contain fish.

C.3.4.4 Ore Processing

From the ore stockpile, ore will be transferred for sizing to a primary crusher and then onto a secondary and tertiary crusher by conveyor. Once the ore is re-sized, it will be conveyed for temporary storage in a crushed ore dome, before being transferred to the processing plant for gold and copper recovery. Although not currently planned, there is also the potential that the processing plant could also process ore trucked to the site from other compatible deposits at the same time as processing the Upper Beaver Mine ore, or potentially after the on-site ore resource is depleted. Development of other ore bodies to feed the Upper Beaver Gold processing plant in the future (if any) and transport of ore, will be required to meet all federal and provincial regulatory processes at the time, and accordingly, may require completion of an additional Impact Assessment / Environmental Assessment process.

Processing methods will entail several stages of conventional mineral processing, such as: crushing, grinding, flotation and cyanidation. The processing plant has been designed to produce both doré bars and copper concentrate inside one building, using different equipment, chemicals and processes. These products will be periodically trucked to existing facilities off site for additional purification / refining, likely about one to two trucks per day.

Ore processing will occur at a rate of approximately 4,000 to 10,000 tpd of ore as an annual average. For contingency purposes, an additional ore throughput has been considered in the above the planned output (i.e., maximum rate of ore processing of approximately 10,000 tpd as an annual average).

C.3.4.5 Tailings Storage

The primary by-product of ore processing is tailings. Tailings consists of ground rock and associated process water that result from the processing of ore. Agnico Eagle is currently planning tailings from the processing of the ore to be stored in an on-site dry stacked tailings facility, subject to further engineering. Tailings are expected to be treated for cyanide destruction and filtered in presses within the processing plant, to create the dry filter cake. The filtered tailings from the plant will be trucked to the tailings facility for stacking, likely with a conveyor-like system and bulldozer(s). The tailings produced are comparatively dry and the dry stack tailings facility will not have an internal pond. Approximately 13 Mt of tailings will be permanently stored in the surface tailings storage facility (which has capacity if needed, for up to an additional 17 Mt). Ditching will collect runoff from the dry stack tailings facility for direction to a collection pond for further management.

A paste backfill plant will allow a portion of the tailings to be mixed with a binder (such as cement) that will increase the strength of the materials, so that they can be returned to the underground workings to provide additional underground stability without negatively affecting environmental aspects.



Approximately 40 to 50% of tailings produced from the underground mine are expected to be treated in the backfill plant for re-use in backfill underground, and will not be stored on surface.

C.3.4.6 Buildings and Yard Areas

The following permanent facilities are planned for the Upper Beaver Gold project which may either be the existing advanced exploration facilities, or new structures designed for longer term usage:

- Processing plant and primary crusher with conveying system;
- Tradeshop / maintenance, warehouse, coreshack, laboratory, outbuildings and laydown areas;
- Offices; and
- Explosives storage facilities.

These will be supported by related piping and power infrastructure as needed.

The preliminary site layout has been developed to take advantage of the advanced exploration program buildings and facilities as well as existing geotechnical conditions, in order to minimize land disturbance and to provide adequate setbacks from existing watercourses where practical. Final setback distances will be determined during detailed engineering design. The primary goal of the layout has been to ensure efficient operating conditions with a compact footprint to minimize overall environmental effects. Lighting will be provided as appropriate to ensure a safe working environment.

The preliminary plant site location has been placed to avoid potential ore resources, and where geotechnical investigations indicate the presence of bedrock at or near the surface. Related exterior and interior tankage will be designed to ensure that any spillage is captured prior to release to the environment. Special equipment and handling procedures will ensure that cyanide and other reagents are stored and used safely. The potential for effects from malfunctions and accidents will be addressed in the Impact Statement should an Impact Assessment be required.

The tradeshop / maintenance will allow indoor maintenance on heavy equipment. Wash bay(s) will be present in order that trucks and other equipment can be washed to allow effective maintenance and extend equipment life with wash water that has been captured and treated. A warehouse may also be established.

It is expected that only explosives storage area will be developed on site. Explosives needed for open pit and underground mining (and potentially for site preparation / diversion construction) will be prepared by a contractor and delivered to site under their care and control as required. The location of any explosives-related facility on site will follow all federal regulatory guidance, including as related to siting.

A network of access and haul roads will be established within the site as needed, utilizing the existing road network or road network developed during the advanced exploration as reasonable (Figure C.1), and minimizing water crossings. These roads are expected to be contained primarily within the footprint / preliminary project boundary shown in Figure C.1 (and D.2). Any new roads will be constructed of aggregate or non-potentially acid generating mine rock. Three new water crossings are currently proposed for the Upper Beaver Gold project, likely as culverts, but potentially as bridges (Figure C.1). One or two existing water crossings may also require upgrading.



C.3.4.7 Domestic and Industrial Wastes

Domestic and special management / hazardous materials resulting from the construction and operation of the Upper Beaver Gold project will be periodically shipped off-site to appropriate facilities. A demolition landfill may be established on the site for disposal of non-hazardous demolition wastes at closure.

Domestic sewage during the construction and operating phases will be treated by an appropriately-sized, technically acceptable method, such as a sewage treatment plant, including potentially an expansion of the advanced exploration system.

C.3.4.8 Water Management Facilities and Drainage Works

The underground mine will intercept groundwater, while the open pit will collect groundwater, runoff and direct precipitation. Agnico Eagle proposes to expand the water management system established to support the advanced exploration program, to accommodate the operating mine. Minewater from the required dewatering of the underground mine and open pit to extract the ore will be collected in sumps and pumped to a surface central water retention pond for additional management. Precipitation and surface runoff that comes into contact with mine-related facilities will be collected in ditches / collection ponds and also pumped to the primary retention pond.

The primary retention pond will be designed with sufficient capacity to support the retention and treatment of contact water and to provide water for processing operations. The water management system will ensure that excess water from the retention pond meets all regulatory requirements and can be discharged to the environment. The discharge location has not as yet been determined but will be selected to ensure that the receiving watercourse has sufficient assimilative capacity. The precise discharge location has not as yet been determined but is expected to be to the Misema River downstream of the Victoria Creek inflow to the Misema River. If that location is selected, a pipeline of approximately 1,500 m length will be needed. A diffuser may be used in the water to ensure rapid mixing. The final location will be selected with care to make sure that the receiving watercourse can receive this effluent and all related regulatory requirements are met, and could potentially be the same as for Advanced Exploration.

Additional fresh water will be required for ore processing and a fire water supply, and is expected to be pumped from Ava Lake. A potable water treatment plant could be constructed to treat water for use on site.

C.3.4.9 Access

There is an existing site access connected to Beaverhouse Road. Based on a traffic assessment during summer 2021 that monitored periodically between July 4 and September 10, there was 1 to 21 vehicle trips each day (24-hour period), that were not identified as being associated with mining exploration or forestry activities. These trips are conservatively assumed to be members of the public or Indigenous Nations.



A new public access road will be established to provide continued access to Beaverhouse Lake while avoiding the secure area of the mine development. A preliminary route has been identified for consultation purposes, from the existing road near the Victoria Creek crossing, across the Misema River, between Ava Lake and Beaverhouse Lake, and ending near the north shore of Beaverhouse Lake (Figure C.1).

C.3.4.10 Power Supply

A 44 kV distribution line will provide power for the advanced exploration program. While this may be sufficient for the mine operations, but there is a high potential that development of a 115 kV transmission line with connection to the local electrical grid could be required. A preliminary route for a 115 kV transmission line is shown in Figure C.1. The routing is under investigation, and could instead follow along the existing distribution line route to the highway. An emergency diesel-fired generator will also be present on the site.

C.3.4.11 Accommodation

An accommodations complex (or similar) is not proposed to be developed as part of the Upper Beaver Gold project due to the close proximity of local communities. Agnico Eagle anticipates that workers will commute daily from existing communities / residences located within about an hour drive in Ontario and Québec.

C.3.4.12 Compensatory Aquatic Habitat

A plan for habitat compensation will be developed which will be consulted upon and approved through a rigorous federal process, and when implemented, will mitigate effects to aquatic resources including habitat loss such as at York Lake. Establishment of fish habitat in the pit lake after closure may be considered.

C.3.4.13 Aggregate Operations

Aggregate will be required to develop the Upper Beaver Gold project site. The Advanced Exploration aggregate source is expected to continue to be used until no longer available. Other potential sources of aggregate for the Upper Beaver Gold project are under investigation, but could include a new source under the care and control of Agnico Eagle. Agnico Eagle is planning a field investigation during Fall 2021 to assess a potential aggregate source in a fluvio-glacial system identified by a geomorphology study southeast of the site (see Figure C.1). Should the investigation be successful, an aggregate operation may be developed to support the mine at the best location within the system. The investigation and any future potential aggregate extraction will occur only on Crown land and subject to obtaining the necessary authorizations. Further engagement will follow should it be determined that a viable aggregate source is present.

C.3.4.14 Preliminary List of Activities

Tables C.3a, C.3b and C.3c provide a preliminary listing of activities associated with the construction, operation, decommissioning of the Upper Beaver Gold project.

C.3.4.15 Preliminary Decommissioning Approach

Progressive reclamation (including of historic mine hazards) and final closure of the Upper Beaver Gold project site will be governed by the Ontario *Mining Act*, and its associated Regulations and Codes, and will be informed by ongoing engagement, including with Indigenous Nations. The limited footprint and design of the project suggests that there may be limited opportunities for progressive reclamation during operation, but progressive reclamation will be pursued as reasonable. The Act requires that a Closure Plan be filed for mining project before construction, and that financial assurance be provided to ensure that sufficient funds are in place to carry out the decommissioning activities.

A preliminary description of the proposed reclamation measures is provided in the text that follows, subject to consultation, additional engineering and regulatory review. As the footprint of the Upper Beaver Gold project site is small, it is expected that the active phase of reclamation of the project will be completed in less than one year after operations cease. Environmental monitoring will continue after reclamation is completed.

Underground Mine

Any underground equipment (heavy equipment, pumps, pipelines, ductwork etc.) remaining at the time of closure will be purged of any hazardous fluids and materials and left in an inert state underground; or removed and managed according to regulations at the time, which may require shipment to an off-site landfill or recycling centre.

All openings to the underground from surface will be secured in accordance with the Mine Rehabilitation Code of Ontario. This includes both new and historic accesses and raises.

Underground workings will be allowed to flood naturally through gradual groundwater seepage. As a result of the local topography and natural groundwater levels, the workings are expected to flood to below the final ground surface and no long term discharge from the workings is expected from any location (backfilled portal or capped raises).

Open Pit

Naturally flooding of the pit with precipitation, groundwater and localized runoff will occur at the end of mine. There is the potential that enhanced flooding could occur, such as by transferring a limited portion of the spring melt water from the Misema River system into the pit at closure, pending regulatory approval. The approach to refilling the pit with water will be assessed further through the regulatory processes and detailed in the future regulatory Closure Plan, and may include development of fish habitat. During pit flooding which is expected to coincide with the flooding of the underground working, pit lake water quality will be monitored and pit slopes that will remain above the final pit lake level will be reclaimed. Fencing or similar measures will be used to ensure public / wildlife safety while the pit floods to create a lake. Once the pit lake is at final level and the water quality meets all regulatory requirements, it is intended that the pit lake will be reconnected to the Misema River system to provide additional recreational opportunities and potentially restore aquatic habitat.

Stockpiles and Tailings Storage Facility

The primary potential closure concern with respect to the mineral wastes (mine rock, tailings and overburden) is the quality of runoff and seepage from the facilities. Preliminary geochemical investigations indicated that these materials are not potentially acid generating. These areas will be reclaimed, reshaped as needed for stability and to reduce potential for erosion, and revegetated to improve long term aesthetics.

Water Management Facilities

Once dewatering of the underground workings ceases and on surface water no longer needs to be treated or managed, the on surface water pond treatment system will be decommissioned. The pond will be sampled to ensure acceptable water quality and will then be drained. Bottom settled solids in the pond will be tested, and if appropriate will remain in place, or will be otherwise managed (such as dredging and removed for disposal in the underground workings. Pond liner(s) if any, will be punctured to allow for natural drainage. The surrounding dykes will be breached and recontoured over the liner to allow natural drainage to the environment. Additional overburden will be placed if needed to support revegetation. Berms and ditches used on site will also be breached or regraded as needed to allow for natural drainage to the environment. The water discharge structure at the Misema River will be reclaimed by removing the pipeline on surface and reclaiming the discharge pad area (or by allowing passive regrowth).

General Site Area

Agnico Eagle will pursue opportunities, and it is hoped that much of the equipment, tankage, machinery, pipelines, building and infrastructure waste materials generated through demolition, can be sold for reuse, or recycled as scrap metal. Any building demolition wastes and equipment wastes that cannot be sold for reuse, or scrap, will be handled according to environmental regulations at that time, and are expected to be transported to an off-site waste management facility.

Concrete building foundation(s) will be broken up and reduced to near grade to allow drainage, and will be covered with overburden, graded and seeded. Wherever practical, clean demolition concrete will be used as a filling resource or will be recycled as crushed aggregate.

All general site access and haul roads, which will not be required for long term will be scarified (broken up), and revegetated when no longer needed to support final reclamation, long term site management and environmental monitoring. The road established for access to the boat launch will be left in place for continued use.

Potential Design Revisions associated to Merger with Kirkland Lake Gold

The merger of Agnico Eagle Mines Limited and Kirkland Lake Gold Ltd. (Section A.2) creates a unique opportunity to unlock significant operational and strategic synergies along the Abitibi / Kirkland corridor. At this time, there are no proposed changes to the Upper Beaver Gold project, including to the preliminary site plan, resulting from this merger. Possible synergies with the Upper Beaver Gold project will be further assessed after the completion of the merger and, if conclusive, will be integrated to the Upper Beaver project design and IA process.



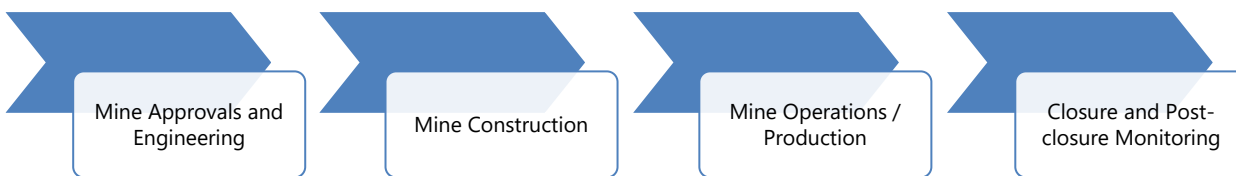
C.4 Capacity Estimate

The anticipated size or production capacity of the Upper Beaver Gold project, with reference specifically to the thresholds set out in the Physical Activities Regulations, is as follows:

- Metal ore extraction for the open pit and/or underground mine is planned at a nominal rate of between 4,000 and 10,000 tpd. During the years of open pit operation, there could be daily peaks of ore extraction (maximum rate of extraction) reaching up to 15,000 tpd.
- Processing of metal ore extracted from the Upper Beaver Gold project and potentially from other local exploration targets as yet defined, is planned at a nominal rate of between 4,000 and 10,000 tpd as an annual average over the life of the mine. The maximum potential ore processing plant input capacity proposed is 10,000 tpd.
- The Misema River will require diversion in order to establish the open pit that will allow future safe underground mining. The river flow is expected to exceed 10,000,000 m³ per year, although hydrological analyses are ongoing. The predicted flow during the mine operations phase through the proposed diversions is expected to be on average approximately 91,500,000 m³ per year (2.9 cubic metres per second) based on current information. Utilizing the long term modelled record, the maximum average annual flow diversion has been estimated at approximately 126,000,000 m³ per year (4.0 cubic metres per second).

C.5 Preliminary Schedule

The Upper Beaver Gold project includes the potential development, operation and closure of an underground and open pit, gold and copper mine. The Upper Beaver Gold project is currently being evaluated from the exploration, engineering and environmental perspectives. Agnico Eagle initiated the potential mine approvals process through submission of an Initial Project Description in September 2021. The stages envisioned for the Upper Beaver Gold project are as follows:



The preliminary schedule for the project is described briefly below and shown schematically in Figure C.4:

Time Period	Project Stage
Pre-construction	2020 to 2025
Engineering Studies	2020 to 2022
Impact Statement Planning Stage	2021 to 2022
Impact Statement Preparation (if required)	2022 to 2023
Impact Assessment	2023 to 2024
Decision-making by federal Authorities	2023 to 2024
Post-decision and Environmental Approvals	2024 to 2025
Construction	2026 to 2027
Operation	2027 to 2040
Decommissioning and Closure ⁽¹⁾	2041 to 2042
Post-closure and Monitoring ⁽¹⁾	2043+

Note:

⁽¹⁾ Timing may be extended with additional viable ore resources not currently identified.



C.6 Potential Alternatives

Agnico Eagle is a publicly traded company that proposes to develop and operate the Upper Beaver Gold project in order to provide shareholders with a reasonable return on investment. The underlying rationale for the project is the strong demand for metals in the global marketplace. With gold prices at sustained high levels, the economics of the Upper Beaver Gold project are expected to be such that Agnico Eagle can successfully produce gold and copper to provide shareholders with value. The alternative of abandoning the Upper Beaver Gold project (i.e., the no-action alternative) does not meet the purpose of the project. Delaying project development also does not meet the purpose of the project, as metal prices are at a sustained high level, and capital and operating costs are only expected to increase over time. Accordingly, there are no functionally different alternatives to the project that meet to needs and purpose of the project, and which are technically and economically feasible. The alternative of not proceeding to develop the mine and both the negative and positive consequences of this approach will be considered.

The Upper Beaver Gold project is at the early design stage. Accordingly, the alternative means listed below should be considered preliminary, and subject to revision during ongoing engineering, and consultation and engagement activities. The alternative of not proceeding to develop the mine and both the negative and positive consequences of this approach will be considered.

Technically and economically feasible alternative means will be considered during future studies and regulatory documentation, and may include the following potential alternatives and others. The list below is not intended to be exhaustive or all-inclusive, and will be subject to the results of ongoing engagement and regulatory advice:

- Mine rock, overburden and organics storage (potential alternatives: various stockpile locations, re-use in construction and as reclamation material);
- Location of processing plant and related site infrastructure (limited by location of mine, geotechnical stability, land ownership / tenure and preference to limit overall site footprint as practical; however there could be synergies with Kirkland Lake Gold operations);
- Tailings storage methods and location (potential alternatives: dry stack facility or conventional slurry facility, co-deposition with mine rock, re-use as backfill underground, various locations including potentially off site at a Kirkland Lake Gold);
- Water management and treatment (potential alternatives: water re-use, applicable treatment technologies);
- Effluent discharge location (potential alternatives: Misema River various locations);
- Watercourse realignments and structures (potential alternatives: locations of diversion channels and dykes);
- Aquatic offsetting and compensation measures (potential alternatives: to be determined through the rigorous federal approvals process);
- Solid waste management location (potential alternatives: existing landfill off site, new landfill on site);
- Domestic sewage treatment method (potential alternatives: package treatment plant, septic tile field);
- Water supply source (potential alternatives: local lake / river, groundwater);
- Aggregate supply source (potential alternatives: develop a dedicated aggregate resource on or near the site, re-use mine rock, purchase aggregate from suppliers);
- Site access road location (potential alternatives: existing route, new route);



- New access to Beaverhouse Lake (potential alternatives: to be determined through ongoing engagement);
- Power supply requirements (potential alternatives: transmission line, diesel power, supplementary passive sources);
- Transmission line route (potential alternatives: direct cross-country route, along distribution line); and
- Mine decommissioning and closure methods:
 - Open pit (potential alternatives: fill with water and keep isolated, fill with water and reconnect to the Misema River when water quality is appropriate); and
 - Demolition waste management (potential alternatives: landfill on site, transport to existing landfill off site).

In consideration of the local site conditions, there are no alternatives methods that are economically viable for:

- Mining methods (constrained by ore location and geometry, Crown pillar stability and land ownership / tenure);
- Ore processing methods (controlled by laboratory testing and analyses to obtain optimal recovery utilizing full scale proven technologies);
- Location of processing plant and related site infrastructure (limited by location of mine, land ownership / tenure and preference to limit overall site footprint as practical); and
- Type of explosives and location of explosive storage and siting (strictly controlled by federal regulations and rock type / blast requirements).



Table C.1: Existing Historical Mine Surface Features

Type of Facility	Current Status	Proposed Status at end of Mine
West of York Lake		
Adit 1	Present, fenced	Removed with pit
Adit 2	Present, backfilled	Removed with pit
West Mill Foundation	Rehabilitated	-
Pumphouse Foundation	Present, fenced	Removed with pit
Stope close to surface	Present, fenced	Removed with pit
Raise 1	Present, fenced	Removed with pit
Raise 2	Present, fenced	Removed with pit
Raise 3	Present, fenced	Removed with pit
Raise 4	Present, fenced	Removed with pit
Raise 5	Present, fenced	Removed with pit
Raise 6	Present, fenced	Removed with pit
Shaft #3	Capped	Removed with pit
Shaft #3 – New Adit	Backfilled, rehabilitated	Removed with pit
Tailing Area No. 1	Partially revegetated / partially in York Lake	Removed with pit
Waste Rock Pile No. 1	Present, partially revegetated	Removed with pit
Waste Rock Pile No. 2	Large volume of rock removed / partially in York Lake and partially revegetated	Removed with pit
East of York Lake		
East Mill Foundation	Present, fenced; registered as archaeological site (Argonaut Stamp Mill, Borden Number DaGw-2) Stage 3 documentation completed and it is approved for removal	Will be rehabilitated
Shaft #1	Backfilled	-
Trench	Present east of York Lake, fenced	Will be rehabilitated
Tailing Area No. 2	Present partially revegetated	Will be rehabilitated
Tailing Area No. 3	Present partially revegetated / partially in pond draining to York Lake	Will be rehabilitated
Waste Rock Pile No. 3	Present	Will be rehabilitated

Note:

See Figure C.3 for location and scale



Table C.2: Preliminary List of Mine Facilities and Comparison to Advanced Exploration Facilities

Type of Facility	Advanced Exploration Program (AEP)	Upper Beaver Gold project
Underground Mine		
- Shaft and hoist room	Yes	Minor modifications to AEP facility
- Surface portal and ramp	Yes	AEP portal, ramp will be extended at depth
- Underground workings	Yes	Expansion of historic and AEP workings
- Ventilation intake raise	Yes	AEP raise and 1 new proposed
- Ventilation exhaust raise	Yes	AEP raise and 1 new proposed
- Compressor building	Yes	Minor modifications to AEP facility
- Mine dry	Yes	New facility
Open Pit		
- Open pit	No	New facility
Misema River diversion		
- Diversion channels	No	New facility (2 proposed)
- Dykes	No	New facility (4 proposed)
Stockpiles		
- Mine rock	Yes	Expansion to AEP stockpile
- Overburden	Yes	New facility
- Organic soil	Yes	New facility
- Ore	Yes	New facilities
- Low grade ore	No	New facility
- Off-site ore	No	Potential new facility
Processing Plant Area		
- Primary crusher	No	New facility
- Secondary crusher	No	New facility
- Conveyors	No	New facility
- Crushed ore dome	No	New facility
- Mill	No	New facility
- Office	No	New facility
- Laboratory	No	New facility
- Electrical / mechanical shop	No	New facility
Tailings		
- Tailings storage	No	New facility
- Paste / backfill plant	No	New facility included in mill
Other Primary Buildings / Facilities		
- Trade / maintenance shop	Yes	AEP facilities may be used or expanded upon if needed, or new facilities may be developed
- Warehouse / storage building(s)	Yes	
- Offices	Yes	
- Laydown areas	Yes	Expansion to AEP areas
- Contractor office / area	Yes	New facility
- Explosive storage – surface	Yes	New facility



Type of Facility	Advanced Exploration Program (AEP)	Upper Beaver Gold project
- Explosive storage – underground	Yes	Potential new facility (or AEP facility)
- Explosive manufacturing	No	No
Water Management		
- Underground sumps	Yes	New facilities as needed
- Primary retention pond	Yes	Potential expansion of AEP facility
- Tailings collection pond(s)	No	New facilities (2 or more)
- Ditching and collection ponds	Yes	Expansion of AEP facilities
- Water management / treatment plant	Yes	Expansion of AEP facility or new facility
- Freshwater pumphouse	Yes	Potential expansion of AEP facility
- Potable water treatment plant	No	Potential new facility
- Water pumps and pipelines	Yes	Expansion of AEP facility
- Effluent discharge pipeline	Yes	Potential expansion of AEP facility
Waste Management		
- Temporary solid waste storage	Yes	Potential expansion of AEP facility
- Domestic sewage treatment	Yes	Potential expansion of AEP facility
- Demolition landfill	No	Potential new facility for closure phase
Power Supply		
- Emergency generator(s)	Yes	Potential expansion of AEP facility
- Onsite distribution lines	Yes	Ongoing use
- Electrical substation	Yes	Use / expansion if needed
Fuel and Reagents		
- Misc. reagents / chemicals	Limited	Expanded storage will be required
- Propane tank farm	Yes	Potential expansion of AEP facility
- Diesel fuel tanks	Yes	Potential expansion of AEP facility
Other On-site Infrastructure		
- Other pipelines	Yes	Expansion of AEP facility
- On-site access / haul roads	Yes	Expansion of AEP facility
- Scale	No	New facility
- Cottager / land users bypass road	No	New facility
- Security gatehouse / fencing	Yes	Expansion of AEP facility
- Yard storage areas	Yes	Expansion of AEP facility
- Coreshack	No	New facility
- Parking	Yes	Expansion of AEP facility
Off-site Infrastructure		
- Access road to site	No change	New facility, local re-routing at site required
- Refurbished 44 kV line	Yes	Continued use if / until transmission line available
- 115 kV electrical substation	No	At regional grid connection
- 115 kV transmission line	No	New line, connected to regional grid
- Accommodations	No	No



Table C.3: Preliminary List of Activities for the Upper Beaver Gold Project

a. Pre-Construction and Construction Phase

- Initiation and completion of engineering study(ies)
- Corporate decision to proceed
- Development and implementation of environmental protection and monitoring plan(s) for construction
- Ongoing engagement and consultation with stakeholders and Indigenous Nations
- Application for, and receipt of environment-related permits
- Hiring of individuals and contractors, and procurement of material and equipment
- Mitigation for heritage resources and other effects, if / as needed
- Upgrade of the access road to site and installation of culverts / bridges as needed
- Additional land clearing and implementation of erosion and sediment control measures
- Excavation and grading as needed
- Movement of construction materials to site
- Construction of new site facilities and/or expansion of existing facilities (see Table B.2)
- Development of compensation features as needed
- Construction of Ava Lake / Misema River diversion and stabilization
- Activation of Ava Lake / Misema River diversion
- Transfer of fish from York Lake and dewatering the lake subsequently to support pit development
- Stripping of overburden and initiation of open pit mine development
- Establishment of water management and treatment works, including ponds, pipelines and treatment facilities
- Expansion of mine waste management facilities as mine development proceeds
- Environmental monitoring and reporting, including work by Indigenous monitors as applicable

b. Operations Phase

- Receipt of outstanding environment-related permits
- Development and implementation of environmental protection and monitoring plan(s) for operation
- Ongoing engagement and consultation with stakeholders and Indigenous Nations
- Overburden and mine rock extracted from the open pit will be either stockpiled or used for progression reclamation
- Mine rock extracted from the underground workings will be stockpiled
- Ore will be extracted from the underground workings and open pit, and will be either temporarily stockpiled, or will be transported directly to the primary crusher for sizing
- Sized ore will be processed to recover the gold and copper in the same processing facility, and produce gold doré bars and copper concentrate that will be periodically shipped off site for sale
- Tailings produced from processing ore will be stored in a surface facility which will expand as needed
- As operations continue the underground mines will become progressively larger below the ground surface
- As operations continue the open pit will become progressively larger and deeper
- Progressive reclamation will occur of facilities when no longer needed / depleted
- Progressive reclamation of the open pit slopes and studies to ensure long term success of pit lake
- Ongoing management and treatment of waters for discharge of excess waters that meet regulatory requirements

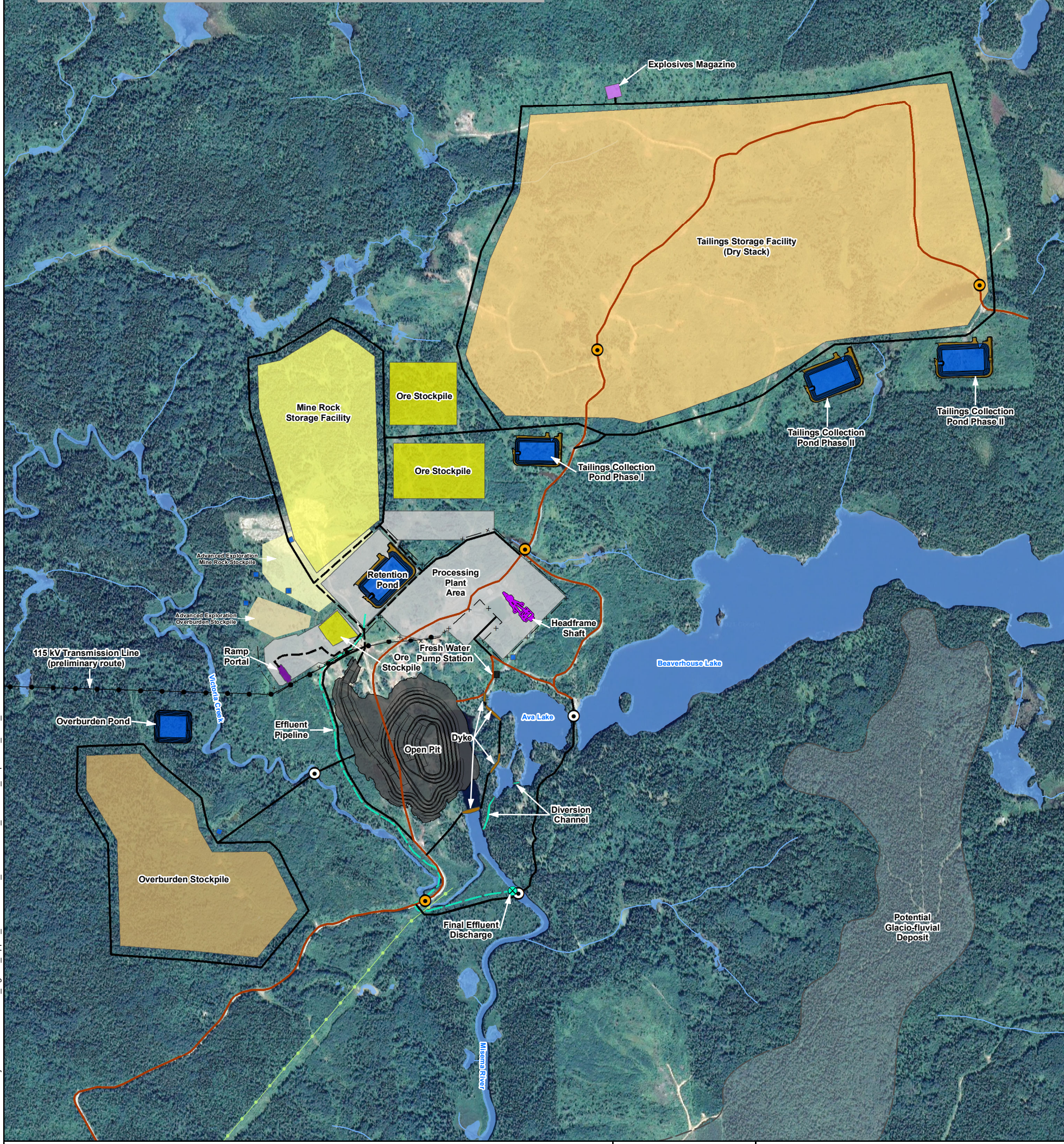


- Ongoing management of chemicals and wastes
- Environmental monitoring and reporting, including work by Indigenous monitors as applicable
- Follow up environmental studies
- Progressive site reclamation wherever practical

c. Decommissioning and Closure Phase (and Post Closure)

- Development and implementation of environmental protection and monitoring plan(s) for closure
- Ongoing engagement and consultation with stakeholders and Indigenous Nations
- Remove mine equipment and allow underground mine and open pit to flood
- Seal opening to underground to ensure long term site safety
- Removal of reagents and chemical for proper disposal
- Potential establishment of on-site demolition landfill for inert waste, and/or contracts for demolition waste removal
- Demolish facilities as no longer needed with waste accordance with all regulatory requirements
- Investigate and remediate ground with spillage if any, such as near liquid fuel storage areas
- Remove power infrastructure when no longer needed
- Break concrete foundations down to grade or near grade
- Break up concrete, puncture liners, scarify compacted grounds etc. to establish free drainage
- Regrade as needed for long term stability and establish final surface drainage
- Place a growth material over affected areas as needed to ensure long term vegetation success
- Active and passive revegetation of affected areas
- Environmental monitoring and reporting, including work by Indigenous monitors as applicable
- Revocation of approvals to operate when no longer required
- If appropriate, connect the flooded open pit to the Misema River system once the flooded pit lake quality meets regulatory requirements
- Return of reclamation financial assurance





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LEGEND	
	Open Pit
	Processing Plant Area
	Tailings Storage Facility
	Ore Stockpile
	Mine Rock Storage Facility
	Overburden Stockpile
	Explosives Magazine
	Dyke
	Pond
	Diversion Channel
	Portal Ramp
	Headframe Shaft
	Fresh Water Pump Station
	Potential Glacio-fluvial Deposit
	115 kV Transmission Line (preliminary route)
	Security Fence
	Effluent Pipeline
	Final Effluent Discharge
	Existing Road / Trail
	Advanced Exploration Road
	Proposed Road
	Potential Water Crossings (Culverts or Bridges)
	Existing Water Crossings
	Advanced Exploration Overburden Stockpile
	Advanced Exploration Mine Rock Stockpile
	44 kV Existing Powerline

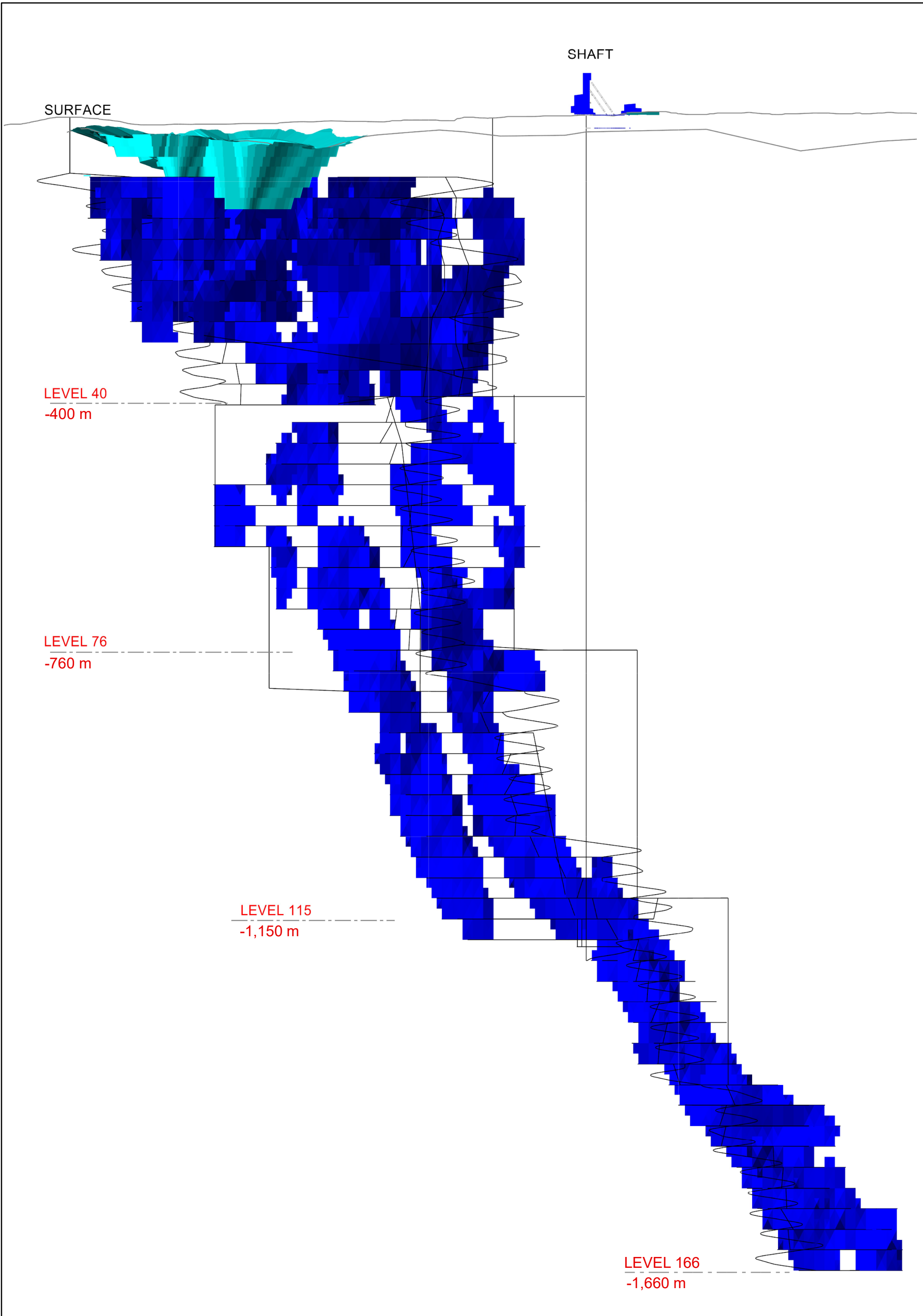
NOTES:
 - Site plan layout shown was provided by Agnico Eagle, "005 Site Preparation 210 General Arrangement Plan Upper Beaver Site Layout (Production)" 30108-005-210-001_RF.
 - Waterbodies and watercourse extracted from LIO, NDMNRF and modified to match site plan layout provided by Agnico Eagle; to be field confirmed.
 - Aerial imagery extracted from Google Earth Pro, 2019.





Datum: NAD83
 Projection: UTM Zone 17N

 UPPER BEAVER PROJECT			
UPPER BEAVER GOLD PROJECT			
Preliminary Site Plan			
PROJECT N°: OMEMA2008		FIGURE: C.1	
SCALE: 1:13,500		DATE: December 2021	



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LEGEND  Open Pit  Mineralized Area	NOTES: - Mine plan layout shown was provided by Agnico Eagle		 AGNICO EAGLE UPPER BEAVER PROJECT		 wood.
	Datum: NAD83 Projection: UTM Zone 17N		UPPER BEAVER GOLD PROJECT		
			Preliminary Mine Plan Longitudinal View		
			PROJECT N°: OMEMA2008	FIGURE: C.2	
			SCALE: NTS	DATE: December 2021	

591800

591900

592000

592100

5335600

5335500

5335400

5335300

5335200



LEGEND

 Historical Mine Hazards

 Fence

NOTES:

- Map extracted from "2019 Closure Plan Amendment" Figure 4.8.1, Story Environmental, Jan. 24, 2020:
- Orthophotos obtained from Queenston Mining Inc. Locations are approximate.
- Fence outline provided by Golder (via AEM) on 13 June 2019.



UPPER BEAVER GOLD PROJECT

Historical Mine Remnants

Datum: NAD83
Projection: UTM Zone 17N



PROJECT N^o: OMEMA2008

FIGURE: C.3

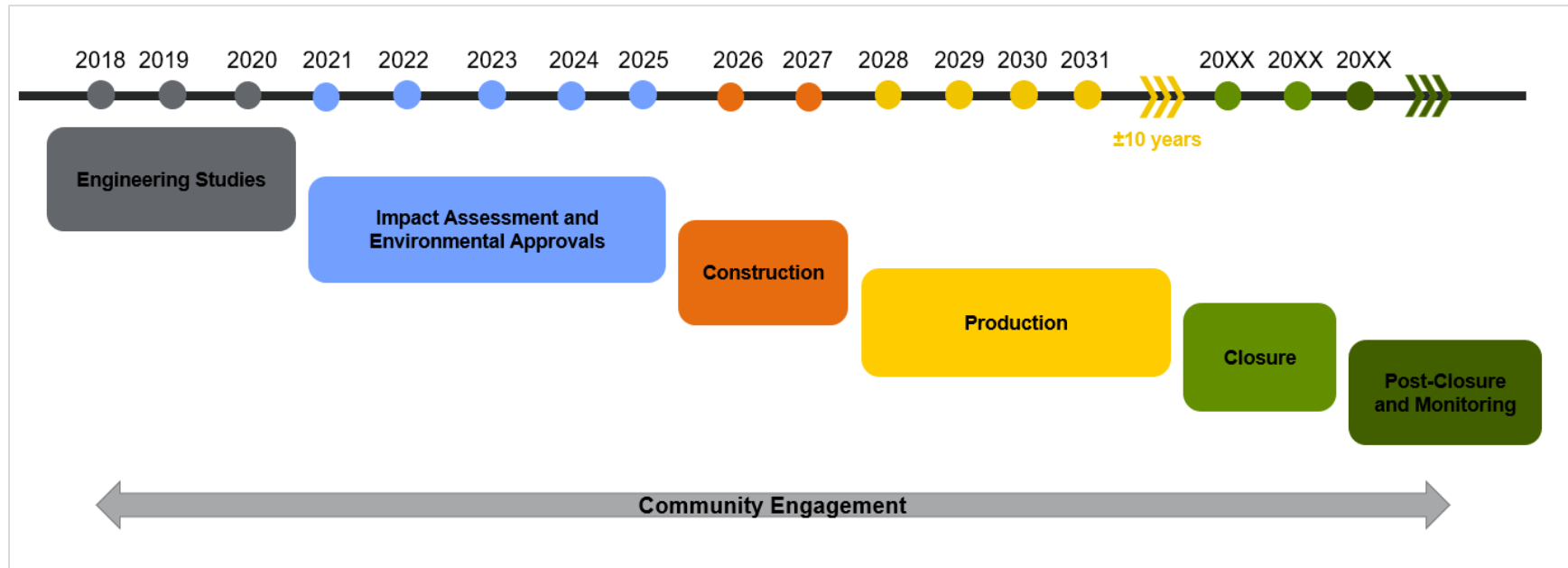
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DATE: December 2021



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Figure C.4: Preliminary Project Schedule



D. LOCATION INFORMATION AND CONTEXT

D.1 Geographic Coordinates

The Upper Beaver Gold project is located in the Kirkland Lake – Larder Lake Mining District which has a long history of exploration and mining dating back over a century. The project site is located approximately 5 km northeast of Dobie, Ontario, in the geographic townships of Gauthier and McVittie. The nearest larger communities are the town of Larder Lake and the town Kirkland Lake, located about 8 km to the southeast and 19 km to the southwest, respectively (see Figure D.1). All distances provided in this document are cross-country distances.

The site is accessed by means of Dobie Road and Beaverhouse Road, which are connected to the Trans-Canada Highway (Highway 66).

The centroid of the proposed open pit at York Lake is located at coordinates:

- Universal Transverse Mercator (UTM) 5335489N, 591784E, (NAD 83 Zone 17N); and
- Latitude / longitude 79° 45' 56.189" W, 48° 9' 57.663" N.

A 115 kV transmission line is proposed. The endpoint coordinates of the preliminary route are as follows:

- West endpoint:
 - UTM 5335857N, 585492E (NAD 83 Zone 17N);
 - Latitude / longitude 79° 51' 00.4675" W, 48° 10' 12.7267" N; and
- East endpoint:
 - UTM 5335869N, 591848E (NAD 83 Zone 17N);
 - Latitude / longitude 79° 45' 52.7715" W, 48° 10' 09.9926" N.

D.2 Site Maps

The preliminary site layout shown in Figure C.1 proposes to place the required mine related facilities in close proximity to the open pit to the extent practical, on lands to which Agnico Eagle has control, or expects to have control. The preliminary site plan will be refined further as a result of ongoing engineering studies and engagement activities. This plan suggests areas of proposed development, rather than actual design features.

Additional mapping provided in this Detailed Project Description includes:

- Project location (Figure A.1);
- Location of local communities and First Nation Reserves / communities (Figures A.2 and D.1);
- Local infrastructure (Figure D.1);
- Land tenure and nearby cottages (Figure D.2);
- Watershed, watercourses and waterbodies (Figures D.3 and D.4); and
- Wetlands and low-lying areas (Figure D.5).



D.3 Description of Lands

The Upper Beaver Gold project property (as of February 1, 2021) comprises a portfolio of patented mining claims with surface and mining rights, mineral leases with surface and mining rights, and unpatented mining claims with mining rights only (Figure D.2). The Upper Beaver Gold project facilities are planned to be placed on patent mining lands having both mineral and surface rights.

D.4 Proximity to Residences and Communities

The Upper Beaver Mine property is located in an area of low population density. The nearest seasonal residences are located on, or close to, Beaverhouse Lake where there are approximately 19 cottages (see Figure D.2). Agnico Eagle intends to ensure that mining and related activities do not noticeably change Beaverhouse Lake water levels.

The closest community is Dobie, Ontario located approximately 5 km to the southwest of the Upper Beaver Gold project site and Beaverhouse First Nation settlement is located approximately 5 km to the north (see Figure D.1). The town of Kirkland Lake is located 19 km to the west and the town of Larder Lake is located 8.5 km southeast of the proposed mine site in Ontario (Figure D.1). It is expected that workers may live in these communities and other communities, such as Englehart, Earlton and Matachewan, Ontario and Rouyn-Noranda, Québec. These communities are located an approximately one-hour drive from site. These communities could therefore be impacted by the Upper Beaver Gold project. None of these (or other) communities are anticipated to receive off-site natural or biological effects.

D.5 Proximity to Indigenous Lands and Communities

Agnico Eagle is in ongoing discussions with local Indigenous Nations to determine historic and current, land and resource uses. Based on current knowledge, including documentation publicly available, Agnico Eagle understands that the Upper Beaver Gold project property is located on lands that may have been used previously for traditional purposes by the members of the BHFN, MFN, WFN, TFN and MNO Region 3.

The Upper Beaver Mine property is located near the boundaries of the Treaty 9, 1905, Robinson – Huron Treaty, 1850, and James Bay and Northern Québec Agreement, 1977 lands. The closest Indigenous Nation to the project site is BHFN which has a settlement on the Misema River approximately 5 km north of the project site. The Nation was not included in Treaty #9 and does not have Reserve lands. Regional First Nation communities are shown on Figure D.1. The nearest Reserve lands are associated with the WFN, located approximately 44 km north of the project site (Figure A.2).

Based on research and publicly available information, Agnico Eagle is aware of a number of land claims and/or assertions of the Indigenous Nations that overlap or are near the site (Table D.1). Agnico Eagle will continue to engage with Indigenous Nations to determine any assertions and whether they have assertions related to the Upper Beaver Gold project

The *First Nations Land Management Act* enables Indigenous Nations to develop their own laws with respect to land use, the environment and natural resources to maximize cultural and economic development opportunities with their new land management authorities. Under the *First Nations Land Management Act*, land administration is transferred to Indigenous Nations once their land codes come into effect. Agnico Eagle is not aware of any land codes currently in progress for potentially affected Indigenous Nations. Through continuing engagement activities with Indigenous Nations, Agnico Eagle will



determine whether the Upper Beaver Gold project will affect any Indigenous land codes and will support the framework set out in the land code, if applicable.

Agnico Eagle will engage and work with Indigenous Nations to determine whether there are other lands set aside for the use and benefit of the Indigenous Nations (i.e., for traditional purposes or commercial activities) that could be affected by the Upper Beaver Gold project. Agnico Eagle understands that some Indigenous Nations are undertaking Community Land Use Plans and Indigenous Knowledge studies, and will work with the Indigenous Nations to ensure land use areas are understood and considered during the Impact Assessment.

Agnico Eagle will continue to engage with Indigenous Nations to determine any other assertions and whether they have assertions related to the Upper Beaver Gold project.

D.6 Proximity to Federal Lands

There are no federal lands near the proposed project development area or in the local area surrounding the Upper Beaver Gold project property. The closest federal lands are First Nation Reserve lands located more than 40 km away: Abitibi Wahgoshig Reserve 70 – 44 km; TFN Reserve - 61 km; and Matachewan Reserve 72 – 62 km.

The Upper Beaver Gold project site is located inland, and there are no related marine or port aspects.

D.7 Physical and Biological Environmental Setting

Agnico Eagle and its predecessors have been conducting environmental investigations, including environmental baseline data collection, on the Upper Beaver Mine site since 2010. The main periods of investigations were during 2011 / 2012 and from 2018 to present. The area of influence of the project on the physical and natural environment is expected to be primarily limited to the project footprint and nearby area; however a much larger area has been investigated including through the collection of baseline information prior to development, to ensure there is sufficient background information for future comparison.

In collaboration with Indigenous Nations, Agnico Eagle will incorporate Indigenous Knowledge to inform the decision-making process in the Impact Statement (if required), including baseline conditions (i.e., physical and biological existing conditions) and mitigation measures. Agnico Eagle will ensure Indigenous Knowledge is incorporated in the Impact Statement appropriately and will validate how Indigenous Knowledge was interpreted and used in the Impact Statement.

The project site is located in the extreme southeastern corner of the Ecoregion 3E (Lake Abitibi ecoregion). The southern boundary coincides with several major end moraines (e.g., Chapleau Moraine; Barnett et al., 1991) and with temperature regions. The climate in this ecoregion is included in the Humid Mid-Boreal Ecoclimatic Region (Ecoregions Working Group 1989) and within the Boreal Forest Region (Rowe 1972); winters are long, cold, and snowy, while summers are warm but short. The surficial geology is diverse, and terrain is highly variable, ranging from weakly broken to strongly broken, depending on the surficial and bedrock features of the area. Substrates in the southeastern portions of the ecoregion are poorly developed. The varied and steep terrain in these areas yields rock outcrops with poor or no substrate development (Crins et al. 2009).



D.7.1 Climate, Air Quality, Noise and Light

The nearest Environment and Climate Change Canada climate station for which long term, current records are available, is located at Kirkland Lake, Ontario (Kirkland Lake CS). This station is located approximately 18 km west of the site. Mean monthly temperatures range from a low of -14.9°C in January to a high of 18.3°C in July. The mean annual precipitation for Kirkland Lake is 939 mm July through October is typically the wettest period.

The Upper Beaver Gold project site is located in a remote part of northeastern Ontario. There are no significant nearby anthropogenic sources of air emissions or noise. There are no continuous significant emissions currently from the site, although there may be periodic emissions associated with exploration and advanced exploration (once approved). Baseline air quality will also be influenced by long range transport of air emissions from the south and also by natural sources, such as volatile organic emissions from vegetation or natural fires.

Air quality data (total dustfall) was measured at the Upper Beaver Gold project site monthly during 2012 with data prior to September representing background conditions. Average dustfall concentrations were: 1.23 grams per square metre (g/m²)/30 days (soluble), 0.88 g/m²/30 days (insoluble) with a maximum recorded of 6.54 g/m²/30 days. Data for 2012 is also available for total suspended particulate, metals, sulphur dioxide (SO₂) and nitrogen dioxide (NO₂) at another nearby exploration site where there were no recorded exceedance of the Ontario Ambient Air Quality Criteria for Total Suspended Particulate or metals, and SO₂ and NO₂ concentrations were reported as low (less than 0.8 parts per billion). In June 2021, a baseline air monitoring program commenced to measure the concentrations of particulate matter and other air pollutants in the vicinity of the project. Two monitoring stations were installed, as well as a 10 m meteorological tower at the Agnico Eagle, Upper Canada exploration site to support the air quality monitoring and other environmental programs.

There are no existing permanent industries or developments in the immediate area. There may be localized areas where noise emissions reflect recreational and exploration activities. Ambient noise surveys were conducted at the site and at five points of reception during four programs in 2012 and 2013. Noise data were collected from seven sites using Quest SoundPro sound level meter. Minimum recorded background sound levels at the more remote locations were in the range of 23.0 to 46.0 A-weighted decibels (dBA), with the lower levels generally recorded at night. In 2021, noise baseline studies were conducted at four points of reception in the vicinity of the site during the spring and summer programs. Noise data were collected using a type 1 - B&K 2250 sound level meter. The recorded sound levels suggest a baseline level in the range of 25.0 to 42.0 dBA, similar to the results obtained from the 2012 and 2013 programs. The existing wilderness areas surrounding the project site may be considered as Class 3 (a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic).

Ambient light at the site at night is currently primarily from natural sources (moon). There are no local man-made sources of existing light although there will be light given off by the Upper Beaver advanced exploration site when approved and developed.



D.7.2 Physiography and Geology

The project site is located at an elevation of about 290 to 310 m above sea level, on a plateau above local waterbodies / watercourses. The overall landscape is glaciated bedrock terrain, with an undulating overall topography with occasional flat areas.

The Upper Beaver Gold project site is located within the south-central portion of the Abitibi greenstone belt. The site is underlain by volcanic, volcanoclastic and epiclastic rocks of the Gauthier (Upper Tisdale) and Lower Blake River groups. Bedrock is generally not exposed except along shorelines. Locally bedrock is covered by up to 30 m or more of glacio-lacustrine and glacio-fluvial deposits comprised primarily of sand and clay.

Geochemistry investigations have been completed periodically during exploration programs to date for potential ore, mine rock and tailings. The most recent and most extensive study in 2018 consisted of 93 potential mine rock and 15 potential ore samples, which were subject to acid base account and metal analyses. Shake flask extraction was completed on a subset of these samples, and four humidity cells were initiated representing two major lithologies. About 85 to 87% of the mine rock / ore samples were identified as non-potentially acid generating based on a neutralization potential ratio of 2:1. Reported results indicated there is generally excess neutralization potential is available to buffer any acid generated by sulphide oxidation, and further that lag times to the onset of acid rock drainage in potentially acid generating samples will be relatively long, potentially on the order of decades for some samples. The risk of acid rock drainage development from mine rock was considered low with appropriate management (Lorax 2019).

D.7.3 Surface Water and Groundwater

The project site is located immediately adjacent to three small lakes which are inline with the Misema River: Beaverhouse Lake, Ava Lake and York Lake (Figures C.1 and D.4). York Lake contains residual tailings from historic mining operations (Figure C.3). The Misema River at Beaverhouse Lake has a drainage area of approximately 254 km². Victoria Creek is located due west of the proposed development area and there are a number of minor unnamed tributaries that are either in close proximity or intersect the project site. Victoria Creek has a watershed of 142 km² and flows into the Misema River. The Misema River flows southward (Figure D.3), eventually into the Blanche River, which drains into Lake Timiskaming, and further south to the Ottawa River and St. Lawrence River. At Beaverhouse Lake, the mean annual flow of the Misema River has been calculated as 91.5 million m³ per year (2.9 m³/second)

Ongoing surface water sampling at and near the site indicate that baseline water quality is consistent with a mineralized area of northern Ontario. Water quality results were generally below the Ontario Provincial Water Quality Objectives (PWQO) for protection of aquatic life and/or Interim PWQO, with the exception of regularly elevated iron concentrations and occasionally other metals.

Both shallow and deep groundwater wells have been installed on the Upper Beaver Gold project site previously. Several hydrogeological studies were completed between 2011 and 2018. Groundwater flow from the main site area generally mimics the local topography, and flows southward and toward the local watercourses / waterbodies downslope based information available to date. Testing on five monitoring wells screened in the shallow bedrock recorded a range in hydraulic conductivity of 1.7×10^{-9} to 5.9×10^{-7} metres per second (m/s) with a geometric mean of 8.5×10^{-8} m/s. The specific yield of the shallow bedrock is expected to be less than 3% (SRK 2019). Deep bedrock hydraulic conductivity testing conducted in



exploration holes in 2013 and 2016 at 22 drill holes ranging in depth from 360 m to 1,300 m indicated a range in hydraulic conductivities of 9.7×10^{-10} m/s to 1.5×10^{-8} m/s and a geometric mean of 6.3×10^{-9} m/s (SRK 2017). The specific yield of the deep fractured bedrock is expected to be less than 1% (SRK 2019).

Although there are no applicable regulatory criteria available for direct comparison for baseline groundwater quality data, the quality of the groundwater samples collected to date meets the Ontario Regulation 153-04, Generic Standard for non-potable groundwater condition (SEI 2020).

D.7.4 Terrestrial Environment

The site and lands immediately around the property are representative of Boreal Forest, with most forests having a mix of coniferous and deciduous trees. The most common tree species present are Black and White Spruce, Jack Pine, Balsam Fir, Tamarack, White Birch and Trembling Aspen. The forests are of variable age, and some are very young due to recent logging. Anthropogenic influences from rotational forestry, and recreational and periodic mine exploration / mining activities is also evident in the local area.

The majority of waterbodies / watercourses in the area of the project have associated low-lying areas of varying sizes. Wetlands cover a relatively small proportion of the area within the Upper Beaver Gold project preliminary project boundary, but are present and include various forms of swamp, fen and marsh.

During studies to date, at least 130 species of vascular plants, 78 species of birds, 17 species of mammal, 6 species of amphibian and 2 species of reptile have been recorded.

One Species at Risk and one species to be up-listed, have been identified within the proposed development area (Species at Risk are discussed in Section C.7.6):

- Little Brown Myotis (Endangered provincially and federally) – has been recorded at a number of different locations and is likely present throughout the area; and
- Black Ash (not currently protected) – locally common in swamps and other wet habitats in the area; the provincial Committee on the Status of Species at Risk in Ontario and federal Committee on the Status of Endangered Wildlife in Canada have recommended protection.

Wildlife nursery area (waterfowl brood rearing habitat), late winter Moose habitat, Moose aquatic feeding area and Moose calving site have been identified locally. Wildlife species previously observed as present on the site or during studies locally include:

- Moose;
- Beaver;
- Northern River Otter;
- Black Bear;
- Great Lakes-Boreal Wolf;
- Skunk;
- Raccoon;
- Red Fox;
- Eastern Chipmunk;
- Red Squirrel;
- Snowshoe Hare;
- Muskrat;

- Big Brown / Silver-haired Bat; and
- Little Brown Myotis.

Birds identified during previous counts are typical of northern Ontario. Over 100 different bird species were observed or identified as probably or possibly present during breeding bird surveys, marsh monitoring or incidental identifications during 2011. The species identified included: Duck, Flycatcher, Grouse, Jay, Osprey, Sparrow, Swallow, Vireo, Warbler and Woodpecker. Species at Risk are discussed in Section C.7.6.

Amphibians and reptiles identified through previous investigations in the area include:

- Green Frog;
- Leopard Frog;
- Spring Peeper;
- Wood Frog;
- American Toad;
- Painted Turtle;
- Common Gartersnake.

Agnico Eagle understands that there are culturally important species to Indigenous Nations. As such, Agnico Eagle is working with Indigenous Nations to identify these important species and will ensure they are carried through the Impact Assessment, as applicable. These will be identified through engagement activities, country foods assessment and Indigenous Knowledge Studies that Agnico Eagle is currently engaging with Indigenous Nations. Members from the MFN accompanied field biologists during the 2021 terrestrial studies on two occasions to observe sampling during basking turtle, amphibian and breeding bird surveys.

D.7.5 Aquatic Environment

Aquatic baseline studies were completed during 2011, 2018 and 2021 on the Upper Beaver Gold project site and nearby aquatic habitats, including the following waterbodies / watercourses:

- Misema River;
- Victoria Creek;
- Beaverhouse Lake;
- Ava Lake;
- York Lake;
- Various unnamed inland waterbodies and tributaries; and
- Grassy Lake further downstream.

The studies included fish habitat and community assessment, detailed bathymetric surveys, fish collection for fish tissue analyses, surface water quality and sediment analyses, as well as benthic invertebrate community surveys and lower trophic level assessment (Chlorophyll-a and zooplankton).

Fish communities within the region have been identified as generally diverse with cool water game fish species dominating larger lakes and river systems, and a variety of commonly occurring small bodied species found within small creeks and beaver ponds. Fish communities observed in sampled watercourses reflected small-bodied forage fish, and predominantly: Pearl Dace, Finescale Dace, Northern Redbelly



Dace, Longnose Dace, Fathead Minnow, Brassy Minnow, Brook Stickleback, Creek Chub, Common Shiner, Golden Shiner, Mottled Sculpin and Logperch. Local lakes also contained larger bodied fish including coarse and sportfish species such as: Northern Pike, Walleye, White Sucker, Yellow Perch, Smallmouth Bass and Brown Bullhead (SEI 2013). White Sucker spawning habitat and potential Walleye spawning habitat were found in the Misema River system, specifically near the rapids between Ava Lake and York Lake, as well as nearshore habitats within Beaverhouse Lake, Ava Lake and York Lake. Local Indigenous Nations were invited to witness and participate in these studies. Members from the MFN accompanied field biologists during the 2021 aquatic studies on two occasions to observe sampling in both the lake and inland waterbody environs.

D.7.6 Species at Risk

Little Brown Myotis has been identified as present within the proposed development area for the Upper Beaver Gold project. Four other Species at Risk have been identified as present in the local area: Whip-poor-will, Canada Warbler, Common Nighthawk and Rusty Blackbird.

D.7.6.1 Present in Proposed Development Area

Little Brown Myotis

Little Brown Myotis is designated as an Endangered Species at Risk under the federal (SARA) and provincial (ESA) legislation. The Little Brown Myotis is widespread throughout the southern half of Canada and is especially associated with humans, often forming nursery colonies in buildings, attics, and other man-made structures. Little Brown Myotis forage over water where their diet consists of aquatic insects, mainly midges, mosquitoes, mayflies, and caddisflies. They also feed over forest trails, cliff faces, meadows, and farmland where they consume a wide variety of insects, from moths and beetles to crane flies (MECP 2014). It roosts in tree cavities, including small spaces or crevices found in loose bark, hollow trees, rock faces and human structures such as attics, walls and bat boxes and hibernates in caves and abandoned mines during the winter months (MECP 2014). During 2018 field investigations, Little Brown Myotis were detected west of the project site and 2021 documented Little Brown Myotis were documented at a number of different locations during 2021, as well as 2018 (SEI 2020) and is likely present throughout the area; but no bat hibernacula have been identified to date.

D.7.6.2 Identified as Present Nearby

Whip-poor-will

Whip-poor-will is a bird Species at Risk, designated federally (SARA) and provincially (ESA) as Threatened. An obligate forest breeding bird dependent on open, dry deciduous or mixed forests with little or no underbrush forest. Shade, proximity to open areas for foraging, and sparse ground cover are key elements of habitat chosen. Open habitats such as open wetlands with perches, regenerating forest edges and shrubby pastures for used for foraging (COSEWIC 2009). Eastern Whip-poor-will breed in wooded habitats with open spaces such as savannah. They may also breed in openings in other types of forests (MECP 2021). Individuals of this species have been noted at several locations at and adjacent to the site. A single calling male was identified south of Beaverhouse Lake during the 2011 study (Azimuth 2011); however, no individuals were documented using automatic recording units in 2021.



Common Nighthawk

Common Nighthawk is currently designated Threatened (SARA) and Special Concern (ESA). This species nests in a wide range of open, vegetation-free habitats, including: dunes, beaches, recently harvested forests, burnt-over areas, logged areas, rocky outcrops, rocky barrens, grasslands, pastures, peat bogs, marshes, lakeshores, and river banks and also inhabits mixed and coniferous forests.

Canada Warbler

The Canada Warbler is designated as Special Concern under the provincial *Endangered Species Act* (ESA) and Threatened under the federal *Species at Risk Act* (SARA). It is found in a variety of upland and wetland forest types, but it is most abundant in wet, mixed deciduous-coniferous forests with a well-developed shrub layer. Nests are typically located on or near the ground on mossy logs or roots, along stream banks or on hummocks (COSEWIC 2008). There was one record of this species during 2021, which is likely a rare breeding bird in the area.

Rusty Blackbird

Rusty Blackbirds are currently designated federally and provincially as Special Concern. This species prefers open wetland habitats, with abundant standing snags for nesting. They were not observed or recorded during 2021.

D.8 Social, Economic and Health Context

D.8.1 Site History

Prior to the arrival of Europeans, Indigenous Peoples were active across northeastern Ontario. There has been Indigenous use of the lands locally, and based on the spatial extent and quantities of the lithic artefacts recovered during archaeological investigations to date, this includes a portage, where short-term camping or brief stopovers occurred during the pre-contact past (Woodland Heritage 2021). Indigenous Knowledge will be shared by Indigenous Nations to provide further information regarding historic and current land uses.

Gold was discovered west of Beaverhouse Lake in 1912. Since that time there have been ongoing but periodic times of exploration and underground mine / development, as well as a number of ownership changes as is typical of the northeastern Ontario historic mining areas. The primary periods of related activities on the Upper Beaver Gold project site and immediate environs have been:

- 1912 to 1935: periodic production mining from underground;
- 1965 to 1972: production mining from underground;
- 1974, 1989, 1990, 1991, 1995, 2000: exploration drilling;
- 2005 to 2014: preliminary exploration (geophysics, mapping, drilling, etc.) conducted each year;
- 2012 to 2013: attempt to start an advanced exploration program (previous owner); and
- 2018 to present: preliminary exploration, engineering and environmental studies.

There is existing historical mine infrastructure, tailings and mine rock on the surface, as well as shafts, raises and adits to the underground workings (see Section C.3.2).



A previous study identified cultural heritage landscape and built heritage resources at the Upper Beaver Gold project site and local vicinity related to the site's mining heritage. These have been investigated by a licensed archaeologist as appropriate. Two sites (DbGw-24 and DbGw-26) have been identified as having moderate cultural heritage value or interest, and would require protection and avoidance of development impacts as proposed, or excavation and documentation (not currently proposed).

D.8.2 Social Context

Northeastern Ontario in which the Upper Beaver Gold project site is located, covers an area of about 400,000 km² with a total population of 565,000 and density of 1.4 people per km². Of that population, 30.2% live in a rural area, and 50% in small and medium-sized population centres, compared to the Ontario overall average of with 69.3% of the population living in a large urban centre and 14.1% in a rural area.

Overall, it has been identified that people in northeastern Ontario:

- Have shorter expected lifespans than the average in Ontario;
- Are more likely to smoke (26%), which has been linked to illnesses and early death;
- Are more likely to report having multiple chronic conditions;
- Are far more likely to die prematurely (before age 75) from suicide, heart disease or other causes; and
- Are much less likely to report being able to see a primary care provider, such as a family doctor or nurse practitioner the same day or next day (Health Quality Ontario 2021).

The local lands support recreational activities by locals and tourists, including fishing, camping, trapping and hunting. There is a rudimentary, public boat launch located at the west end of Beaverhouse Lake. The area is also used extensively for the sustainable harvesting of timber. There is no active agricultural use in the project area. The majority of the land within and surrounding the site is classified as having little to no capacity for arable agriculture or permanent pasture.

The Upper Beaver Gold project site is located in geographic townships of Gauthier and McVittie. Numerous old exploration drilling and logging roads as well as recently constructed logging roads, provide access throughout the site and to the Trans Canada Highway 66. The project is located within the boundaries of the Township of Gauthier Official Plan and Township of Larder Lake Official Plan. Agnico Eagle is in discussions to determine whether rezoning of the lands is required.

There are a number of seasonal cottages along the Misema River / inline lake system close to the project site. The nearest municipal community is Dobie which is located within the township of Gauthier (Timiskaming District). Dobie is located north of the Trans Canada Highway 66 and had a population of 138 in 2016. This indicates a 12.2% population change since 2011 when the population was 123. According to the 2016 Census, the median age in the township of Gauthier was 50 with 75% of the population between the ages of 15 and 64 and 10.7% of the population over age 65. The total population was almost evenly split between males and females with 50% identifying as male and 50% identifying as female. Of those between the ages of 15 and 64, 78.6% identified as male and 78.6% as female.

Although a historic mining community, Dobie is effectively a residential community and offers limited services. The township is traversed in an east–west direction by the Ontario Northland Railway line that runs between Swastika, Ontario and Rouyn-Noranda, Québec.



The nearest large municipal community, the town of Kirkland Lake, lies approximately 19 km to the west of the Upper Beaver Gold project site. Kirkland Lake is a historic gold mining town that had a population of 7,981 in 2016. This indicates a -6.0% population change since 2011 the population was 8,493. A breakdown of the total population by gender is not available from the Census data. Based on the 2016 Census, the median age of the population in the community was 45.8 years with 63.7% of the population between the ages of 15 and 64 and 21.1% of the population over age 65. The total population is almost evenly split between males and females with 49.5% identifying as male and 50.6% identifying as female. Of those between the ages 15 and 64, 64.9% identified as male and 62.3% as female.

Over the past 35 years, the population has declined by more than one-third from 12,000 in 1986. While mining has been a mainstay of the community, there has been a growth in recreational opportunities. A variety of services are available in the community, including an airport, hospital, schools, college campus, government offices, shops, retirement facilities and homes. The City of Timmins located 79 km to the northwest (122 km by road) is the regional service and distribution centre, offering key services not available in the town of Kirkland Lake.

There are no First Nation Reserve lands proximal to the site (see Figure A.2), although the site is anticipated to be within the traditional territories of several Indigenous Nations:

- BHFN is the closest Indigenous community to the site, having a remote, old settlement on Misema River approximately 5 km north of the site;
- WFN is located approximately 44 km away on the south shores of Lake Abitibi;
- MFN is located approximately 62 km west of the site, west of Kirkland Lake Ontario; and
- TFN is located approximately 61 km to the southeast, adjacent to the municipality of Notre-Dame-du-Nord (Figure A.2).

Further background information regarding is provided in Table D.2.

The Crown Land Use Policy Atlas identify the project site within land use code G1854 (Howard-Misema Lake Chain) and G1855 (Great Clay Belt). The land use codes encourage mineral exploration and development with some limitations.

With respect to parks, there are no federal parks nearby. The closest lands managed by Ontario Parks is the Gem Lake Maple Bedrock Park (nature reserve class) located approximately 7 km away from the Upper Beaver Gold project site.

D.8.3 Economic Context

The town of Kirkland Lake is the administrative and economic centre of the north Timiskaming District. The largest proportion of workers in Kirkland Lake are employed in the mining sector. Major regional industries that draw labour, services and supplies from Kirkland Lake include: DelShen Therapeutics, Alamos Gold, Agnico Eagle Gold, McEwan Mining, CXS Exploration Services and Kirkland Lake Manufactured Wood Products.



The regional economy has been traditionally reliant upon mine and forestry industries, although mining has been the primary economic driver with the decline of the forestry industry over the last decade and longer. The closest operating or temporarily suspended mines are:

- Holt Complex, Kirkland Lake Gold Ltd.;
- Macassa Mine, Kirkland Lake Gold Ltd.; and
- Young-Davidson Mine, Alamos Gold Inc..

The Timiskaming Forest includes more than 10,000 km² of forest land base extending from the Ontario / Québec border west for 166 km, and from Lake Timiskaming north to Lake Abitibi. The Timiskaming Forest Alliance Inc, a consortium of forest product producers and independent logging operators to manage the Timiskaming Forest on Crown land. They also hold a contract to manage the Timiskaming sustainable forest licence. The Upper Beaver Gold project site was mainly cut by forestry companies in the last 10 years, and there is currently active forestry in the local area.

Hunting and fishing activities are managed by the Ministry of Northern Development, Mines, Natural Resources and Forestry. The Upper Beaver Gold project site is located within Wildlife Management Unit 28 which covers an area of more than 10,000 km². The unit is constrained by the Québec border to the east, the Montreal River to the south, the Black River, Watabeag River, Englehart River and Montreal River to the west, and Lake Abitibi and the Abitibi River to the north. The site is also located within the Cervid Ecological Zone C₂. Moose habitat is managed within the zone with a goal of maintaining a moderate to high density moose population. White-tailed deer are managed to maintain a low density population. The site also falls within Fish Management Zone 8.

The 2016 Census data indicate that more than half of the populations of nearby municipalities and Indigenous Nations participated in the labour force in 2016. Table D.3 presents labour force characteristics of the nearby municipalities and Indigenous Nations to the Upper Beaver Gold project, outlining participation rates and industries of the workforce.

Through engagement activities and primary research, Agnico Eagle will engage and work with Indigenous Nations to gather information on economic activities and to understand potential impacts on those activities. The economic context of Indigenous Nations will be assessed in the Impact Statement.

D.8.4 Health Context

The Timiskaming Health Unit is located in a more southern portion of the northeastern Ontario, and accordingly the accessibility to health service is improved over the Far North area. Public health services for overall health, are complemented by clinical services, such found at the Kirkland and District Hospital.

The Kirkland and District Hospital is located in Kirkland Lake, west of the Upper Beaver Gold project site which has 62 beds. Permanent medical staff including general practitioners and family practice out the hospital, supported by a number of visiting specialists. The hospital is in partnership with the Sudbury Health Science North Hospital for extended care services.



Publicly available information was not available regarding community safety and well-being, social determinants of health or community health plans for the nearby municipalities and Indigenous Nations. Agnico Eagle expects to complete additional primary research to understand community-specific plans that support improving well-being. This may include research with nearby municipalities, Indigenous Nations, healthcare providers and diverse population groups.

Through engagement activities and primary research, Agnico Eagle will engage and work with Indigenous Nations to gather information on health of Indigenous Nations including social determinants of health and community well-being and how the Indigenous Nations define these aspects. The Impact Statement will include a health impact assessment that examines the health and well-being of Indigenous Nations and will use a gender-based framework to assess potential impacts.



Table D.1: Land Claims and Assertions of Indigenous Nations

Indigenous Nation	Claim and Assertions
Beaverhouse First Nation (BHFN)	Wabun Tribal Council, on behalf of BHFN, has made assertions of BHFN's traditional territory. Boundaries of their traditional territory are in the vicinity of the project.
Matachewan First Nation (MFN)	In 2009, MFN filed a Treaty Land Entitlement claim indicating that the Nation did not receive all the land it was entitled to under Treaty #9 (1906). It is understood from the federal government that this claim has been settled.
Wahgoshig First Nation (WFN)	In April 2010, the Algonquin Anishinabeg Nation Tribal Council has made assertions of their rights in their ancestral territory. The claim included a map of boundaries of the traditional territory which is the same as that presented in their comprehensive land claim of 1989. The boundaries extend into Ontario and in the vicinity of the project.
Timiskaming First Nation (TFN)	In January 2013, the Algonquin Nation Secretariat has made assertions of their rights and title over an area of o 34,000 square kilometres of an area that extends into Ontario, in close vicinity to the project.
Métis Nation of Ontario – Region 3 (MNO)	Métis assert a right to harvest in large areas of Ontario. The government has accommodated Métis rights on a regional basis within the Métis harvesting territories identified by the MNO. An interim agreement between the MNO and the Ontario government recognizes the MNO's Harvester Card system. On April 30, 2018 the MNO and Ontario signed a new Framework Agreement on Métis Harvesting that advanced the recognition of Métis' rights in Ontario.

Sources:

Government of Canada (2021)
Métis Nation of Ontario (2021)



Table D.2: Additional Information regarding Indigenous Nations

Indigenous Nation	Description
Beaverhouse First Nation (BHFN)	BHFN is a member of the Wabun Tribal Council. The BHFN does not have land base although it maintains a band office in Kirkland Lake. The First Nation is currently seeking land and band status from the federal government.
Wahgoshig First Nation (WFN)	<p>WFN is an Algonquin First Nation near Abitibi Lake. The WFN in Ontario (formerly known as Abitibi Band of Abitibi Indians) and the Pikogan in Québec signed Treaty No. 9 on June 1, 1906. On June 18, 1986, the Ontario community changed its name from the Abitibi Band of Abitibi Indians to Wahgoshig First Nation (Algonquin Anishinabeg Nation 2016).</p> <p>WFN is a member of the Algonquin Anishinabeg Tribal Council in Québec. WFN is also a member of Nishnawbe Aski Nation.</p> <p>The registered population of WFN as reported to Indigenous and Northern Affairs Canada (INAC 2019a) as of May 2021 is 380, with 38.2% of the population on-reserve and 58.2% off-reserve. However, 2016 Census data indicates a total population of 145, with a 26.1% increase in population size between 2006 and 2016. The median age of the population was 30.8 years. The population has a higher population count of male to females at a total of 80 males and 60 females. Most of the population is within the age group of 20-64 years, with males accounting for 50 persons and females a total 40 within the subset (Statistics Canada 2018a).</p>
Matachewan First Nation (MFN)	<p>MFN is located approximately 30 km southeast of the Town of Matachewan, Ontario and about 60 km west of Kirkland Lake off Highway 66. MFN is a signatory to Treaty No. 9, signed by MFN on June 19, 1906 (Matachewan First Nation 2021).</p> <p>MFN is a member of the Wabun Tribal Council and the Nishnawbe Aski Nation.</p> <p>The registered population of MFN as reported to INAC (2019b) as of May 2021 is 940, with only 5.3% of the population on-reserve and 94.2% off-reserve. However, 2016 Census data indicates a total population of 60, which decreased 20% from 2006 to 2016. The median age of the population in the community was 36.8 years. The population has a higher number of males than females. Most of the population is within the age group of 20-64 years and this group is equally divided between males and females (Statistics Canada 2018b).</p>
Timiskaming First Nation (TFN)	<p>TFN is located at the top of Lake Timiskaming and borders the municipality of Notre-Dame Du Nord. The Nation's traditional territory includes land in Ontario and Québec.</p> <p>TFN is a member of the Algonquin Nation Tribal Council.</p> <p>The registered population of TFN as reported to INAC (2019c) as of May 2021 is 2,391, with 27.2% on-reserve and 72.4% off-reserve. According to the 2016 Census data, the total population was 525. The Census data indicate that there has been a population growth of 8.3% over 10 years from 2006 to 2016. The</p>



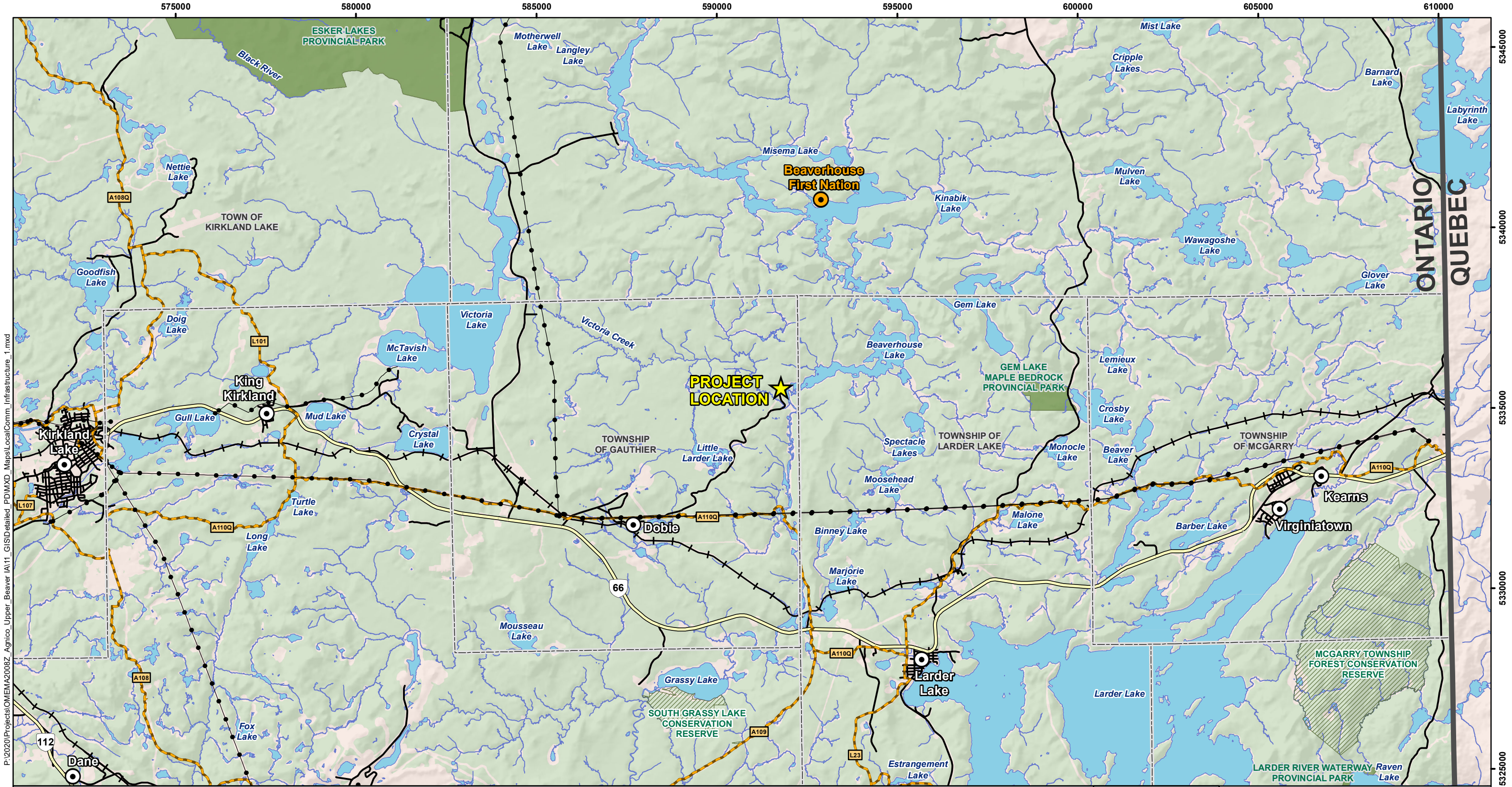
Indigenous Nation	Description
	median age of the population was 31.9 years. Slightly more than half the population (51.4%) are females, predominantly under the age of 65 years (Statistics Canada 2018c).
Métis Nation of Ontario (MNO) – Region 3	The Upper Beaver Gold project site is also located within Region 3 of the MNO. The MNO has a province-wide governance structure and is a Governing Member of the Métis National Council. The MNO exists to represent and advance the interests of the Métis Peoples of Ontario. The MNO has a Consultation Agreement with the Ontario Government signed on July 31, 2015, that establishes a consultation process with member so the Ontario Métis communities represented by MNO to consult on proposed actions and decisions that may impact asserted or established Indigenous rights (Metis Nation of Ontario 2021).



Table D.3: Labour Characteristics of Nearby Municipalities and Indigenous Nations

Municipality / Indigenous Nation	Description
Kirkland Lake	Based on the 2016 Census data, 55.8% of the population aged 15 years and older participated in the labour force, with more males (59.7%) in the labour force than females (52%). Approximately 21% of those in the workforce and 36% of males were in mining, quarrying and oil extraction industry. Of the female workforce, 30% were in the health care and social assistance industry.
Township of Gauthier	Based on the 2016 Census data, 73.1% of the population aged 15 years and older participated in the labour force, with more males (83.3%) in the labour force than females (69.2%). Approximately 26% of those in the workforce were in the mining, quarrying and oil extraction industry, with 40% being males. Of the female workforce, 33% were in the health care and social assistance industry.
Beaverhouse First Nation (BHFN)	Census data for BHFN are not available to present labour force characteristics for the community.
Wahgoshig First Nation (WFN)	Based on the 2016 Census data, 72.7% of the population aged 15 years and older participated in the labour force, with a similar number of males at 69.2% to females at 66.7%. Approximately 13% of those in the workforce are in agriculture, forestry, fishing, and hunting, mining, utilities, construction, administrative and support, waste management, and remediation services, educational services, health care and social assistance, and accommodation and food services.
Matachewan First Nation (MFN)	Based on the 2016 Census data, 88.9% of the population 15 years and over participated in the labour force, with 80% participation from males and 60% from females. Approximately 50% of those in the workforce were in the mining industry. Other employment industries include: construction, public administration and other services.
Timiskaming First Nation (TFN)	Based on the 2016 Census data, 50% of TFN population aged 15 years and older participated in the labour force with more females (53.7%) in the labour force than males (47.6%). Approximately 23% of those in the workforce were in health care and social assistance, 13% were in public administration, while 10% equally were in construction and educational services.
Métis Nation of Ontario (MNO)	Based on the 2016 Census data, 90% of the Métis population of Kirkland Lake participated in the labour force, and 0% of the Métis population of the township of Gauthier participated in the labour force. Approximately 30.3% of Kirkland Lake labour force were in mining, quarrying and oil and gas extraction. Labour force data are not available for the township of Gauthier.





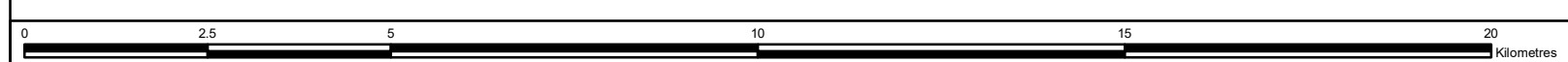
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LEGEND

Project Location	Provincial Border	Snowmobile Trail
Town / Community	Lower Tier Municipal Boundary	Waterbody
First Nation Community	Transmission Line	Watercourse
Conservation Reserve	Railway	
Provincial Park	Highway	
	Local Road	
	Resource / Recreation Road	

NOTES:
 - Waterbodies and watercourse extracted from LIO, NDMNRF and modified to match site plan layout provided by Agnico Eagle; to be field confirmed.

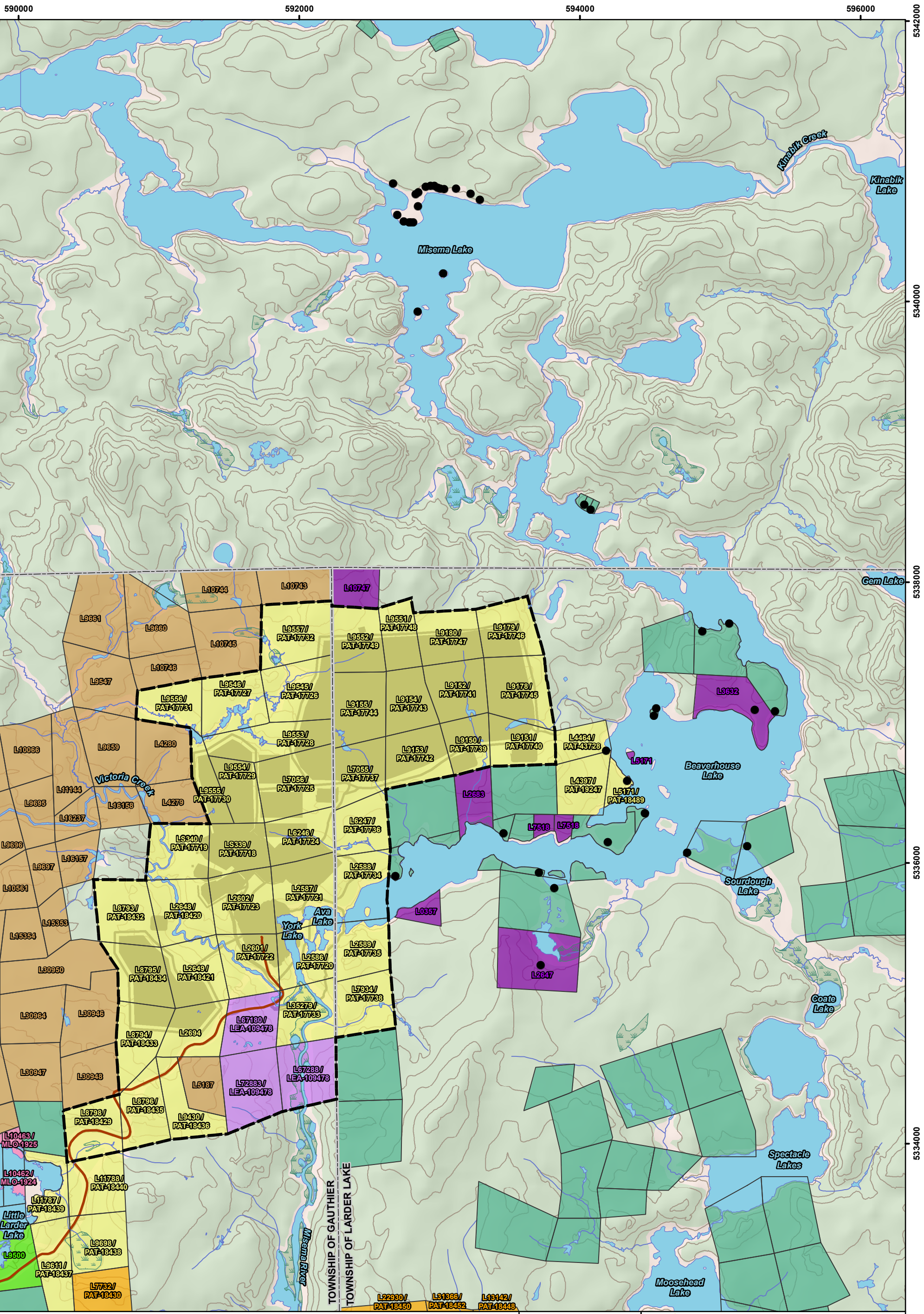
UPPER BEAVER GOLD PROJECT	
Local Communities and Infrastructure	



Datum: NAD83
 Projection: UTM Zone 17N



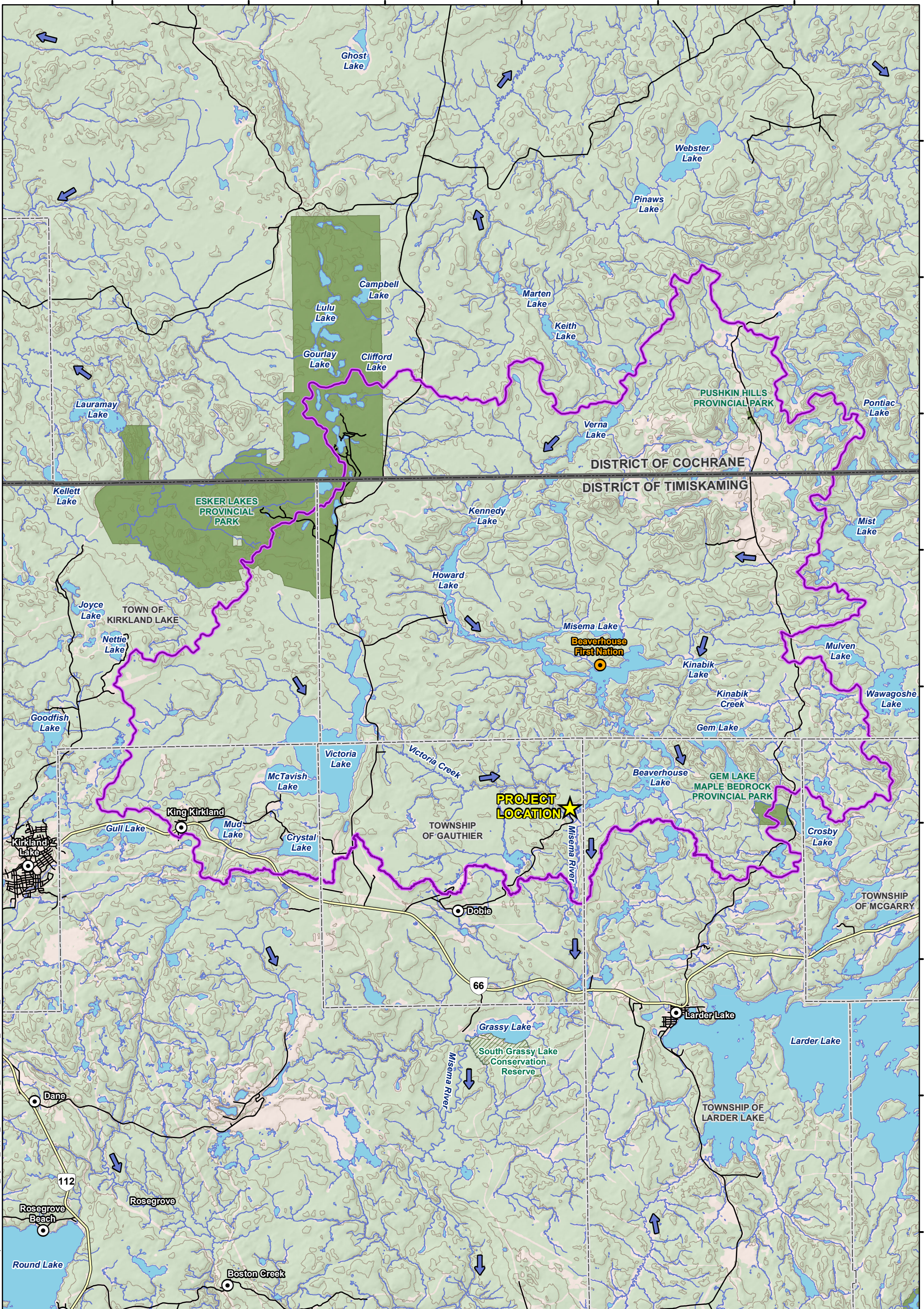
PROJECT N°: OMEMA2008	FIGURE: D.1
SCALE: 1:100,000	DATE: December 2021



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LEGEND Preliminary Project Boundary Proposed Mine Feature Cottages Low-lying Area Watercourse Waterbody Existing Access Road Contours (10 m intervals) Municipal Boundary Other Land Tenure Township of Gauthier Land (Patent) Private Individual (Patent)		Agnico Eagle Mine Ltd. Land Tenure Lease - Mining and Surface Rights Licence of Occupation - Mining and Surface Rights Patent - Mining and Surface Rights Patent - Mining Rights Only Patent - Surface Rights Only Claim - Mining and Surface Rights		NOTES: - Site plan layout shown was provided by Agnico Eagle, "005 Site Preparation 210 General Arrangement Plan Upper Beaver Site Layout (Production)" 30108-005-210-001_RF. - Land tenure provided by Agnico Eagle, December 2018/ November 2021. - Waterbodies and watercourse extracted from LIO, NDMNRF and modified to match site plan layout provided by Agnico Eagle; to be field confirmed.	 wood. UPPER BEAVER GOLD PROJECT Land Tenure and Land Use
		Datum: NAD83 Projection: UTM Zone 17N		PROJECT N°: OMEMA2008 FIGURE: D.2 SCALE: 1:25,000 DATE: December 2021	

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LEGEND

- Project Location
- Watershed
- Town / Community
- First Nation Community
- Conservation Reserve
- Provincial Park
- Upper Tier Municipal Boundary
- Lower Tier Municipal Boundary
- Highway
- Local Road
- Resource / Recreation Road
- Contours (20 m intervals)
- Watercourse
- Waterbody
- Flow Direction

NOTES:
 - Waterbodies and watercourse extracted from LIO, NDMNRF and modified to match site plan layout provided by Agnico Eagle; to be field confirmed.
 - Watersheds extracted from LIO, NDMNRF and modified using the Ontario Flow Assessment Tool (OFAT), NDMNRF.

UPPER BEAVER PROJECT

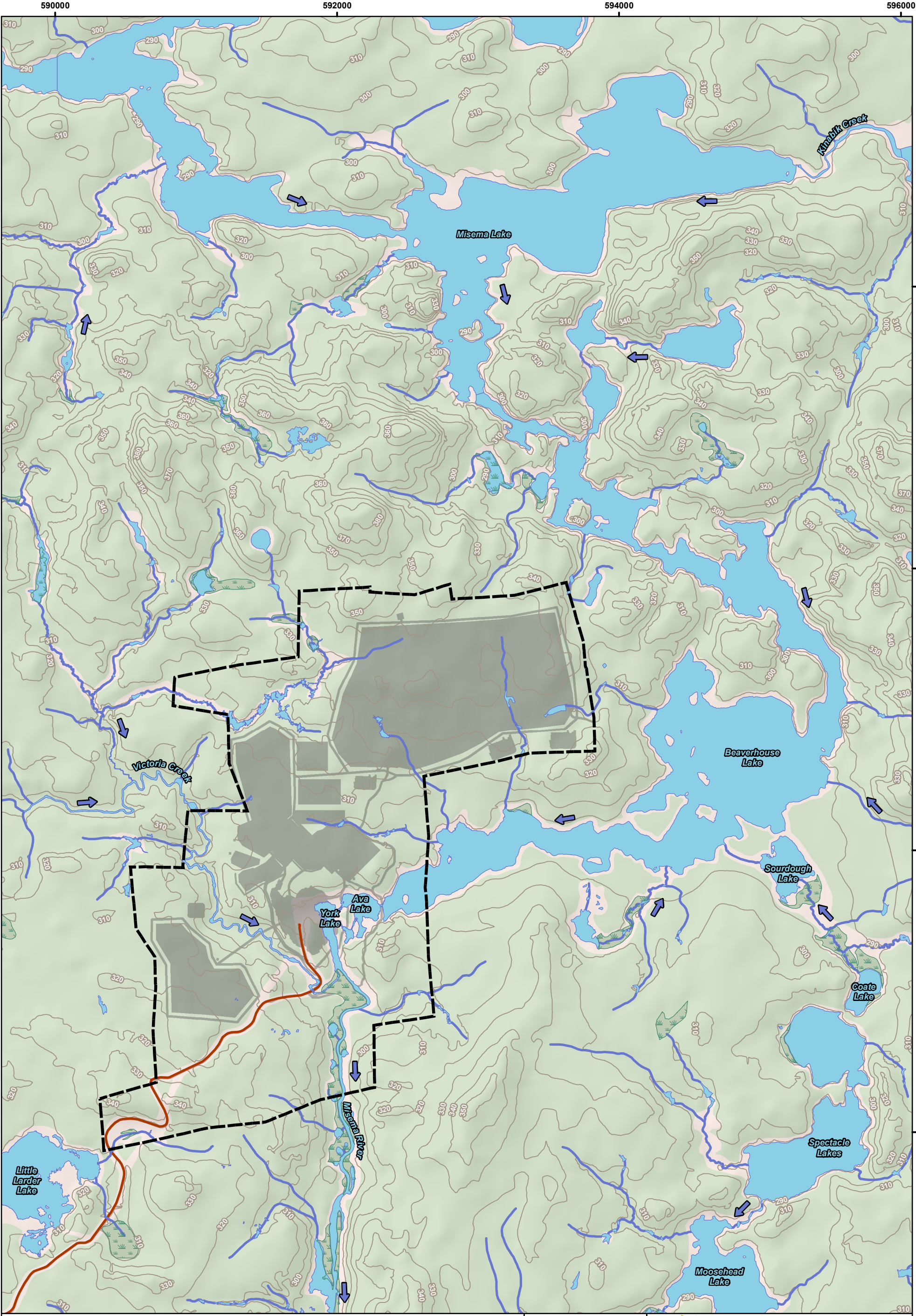
UPPER BEAVER GOLD PROJECT

Watershed Boundary

Datum: NAD83
 Projection: UTM Zone 17N

PROJECT N°: OMEMA2008 **FIGURE: D.3**
 SCALE: 1:130,000 **DATE: December 2021**

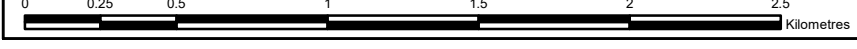




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LEGEND

- Preliminary Project Boundary
- Proposed Mine Feature
- Low-lying Area
- Watercourse
- Waterbody
- Existing Access Road
- Contours (10 m intervals)
- Flow Direction



NOTES:

- Site plan layout shown was provided by Agnico Eagle, "005 Site Preparation 210 General Arrangement Plan Upper Beaver Site Layout (Production)" 30108-005-210-001_RF.
- Waterbodies and watercourses extracted from LIO, NDMNRF and modified to match site plan layout provided by Agnico Eagle; to be field confirmed.

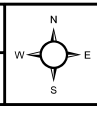
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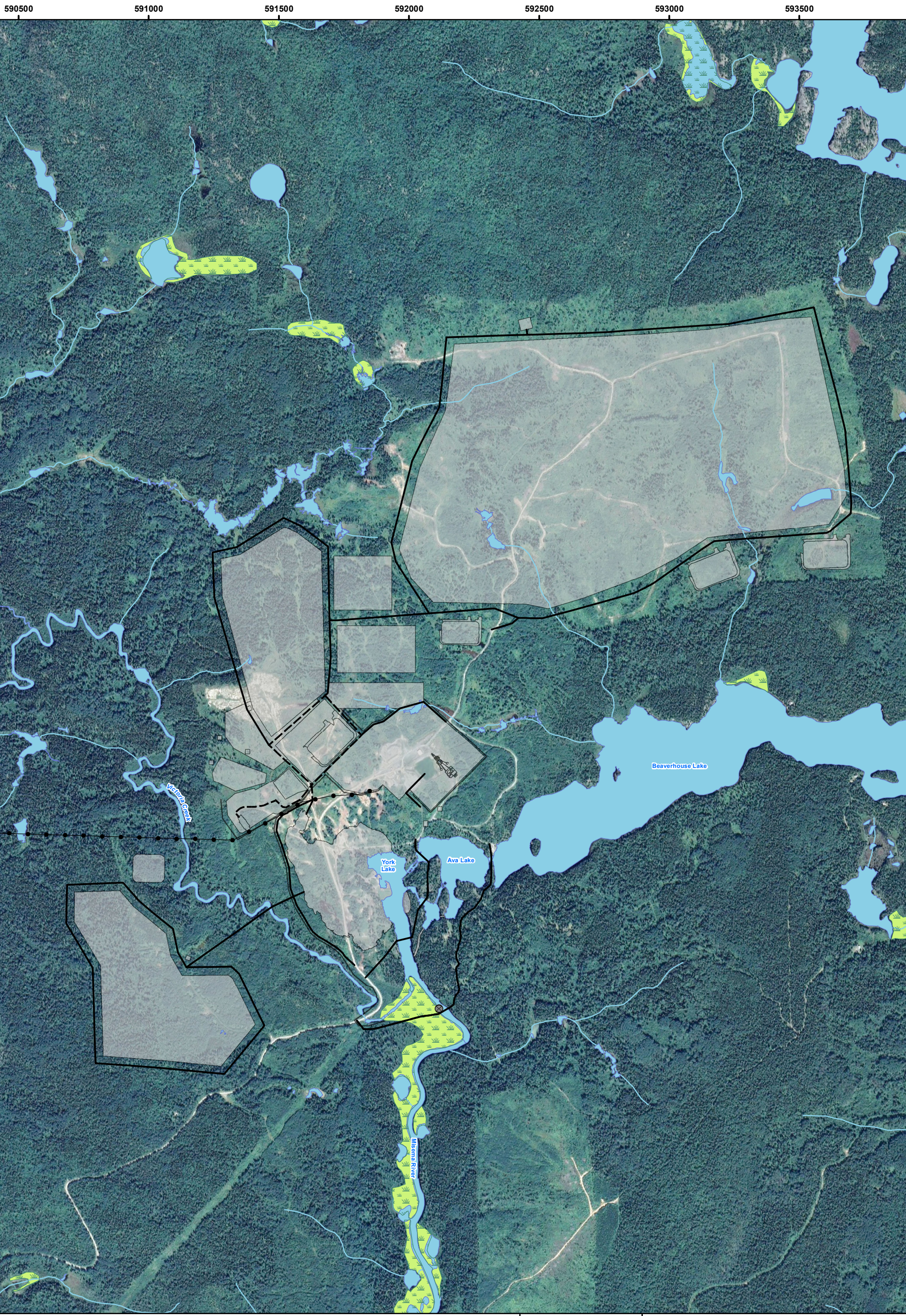
UPPER BEAVER PROJECT

Watercourses and Waterbodies

PROJECT N°: OMEMA2008 **FIGURE: D.4**

SCALE: 1:25,000 DATE: December 2021





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LEGEND 		NOTES: - Site plan layout shown was provided by Agnico Eagle, "005 Site Preparation 210 General Arrangement Plan Upper Beaver Site Layout (Production)" 30108-005-210-001_RF. - Waterbodies and watercourse extracted from LIO, NDMNRF and modified to match site plan layout provided by Agnico Eagle; to be field confirmed. - Aerial imagery extracted from Google Earth Pro, 2019.	 UPPER BEAVER GOLD PROJECT
Wetlands and Low-lying Areas			
Datum: NAD83 Projection: UTM Zone 17N			PROJECT N°: OMEMA2008 FIGURE: D.5
		SCALE: 1:13,500	DATE: December 2021

E. FEDERAL, PROVINCIAL, INDIGENOUS AND MUNICIPAL INVOLVEMENT AND EFFECTS

E.1 Federal Funding

There is no anticipated federal funding for the Upper Beaver Gold project.

E.2 Federal Lands Needed

No federal lands will be used for the purpose of carrying out the Upper Beaver Gold project including Reserve lands.

E.3 Federal, Provincial and Municipal Environmental Approvals

E.3.1 Federal

In addition to the potential requirement for completion of an Impact Assessment pursuant to the *Impact Assessment Act*, the Upper Beaver Gold project may require federal approvals related to the *Fisheries Act*, *Canada Navigable Waters Act* and *Explosives Act*, pending additional regulatory guidance. Fisheries and Oceans Canada, Environment and Climate Change Canada, Transport Canada and Natural Resources Canada have a broad range of responsibilities, and are the federal departments primarily involved with approvals under the above statutes.

Table E.1 provides a preliminary list of federal environmental approvals that could potentially be required for the Upper Beaver Gold project. Environment and Climate Change Canada has also indicated that a federal *Species at Risk Species Act* permit could be required. Others may arise through consultation with federal agencies.

E.3.2 Provincial

The Upper Beaver Gold project site is located within Ontario on provincial Crown land. The Ontario *Environmental Assessment Act*, *Mining Act*, *Ontario Water Resources Act*, *Environmental Protection Act*, *Lakes and Rivers Improvement Act*, *Public Lands Act* and the *Ontario Heritage Act* contain associated regulations, guidelines and policies stipulating that relevant aspects of the natural and/or human use environments are to be protected against undue disturbance from industrial and other sources, except as provided through the granting of permits, approvals and authorizations.

There are two primary provincial agencies are expected to be involved with approvals for the Upper Beaver Gold project:

- Ministry of Northern Development, Mines, Natural Resources and Forestry has a responsibility to ensure the orderly development of mineral resources in Ontario, including responsibilities for the disposition of Crown lands for mining, and primary responsibility for mine closure activities and approval for mining-related dykes located on land; as well as, the wise use of Crown resources not otherwise disposed, such as through the *Mining Act*, including natural heritage features; and
- Ministry of the Environment, Conservation and Parks grants permits and approvals that address project aspects related to water and air quality (including sound), waste management and Species at Risk.



In addition, Ministry of Heritage, Sport, Tourism and Culture may also be involved with permitting of project components although no permits are expected to be issued. The Ontario Energy Board has responsibility for energy-related approvals, including approval to construct transmission lines, and operates as an adjudicative tribunal, carrying out its regulatory function through oral or written public hearings.

The Upper Beaver Gold project may require completion of one or more provincial environmental assessment processes, depending on the final project design. It is anticipated that an environmental assessment will be required for the disposition of Crown resources (Class Environmental Assessment for Resource Stewardship and Facility Development Projects), including for the diversion of Ava Lake into the Misema River downstream of York Lake. There is also expected to be an environmental assessment requirement related to the provision of grid power to the site, depending on the voltage required and grid connection location (Class Environmental Assessment for Minor Transmission Facilities). The same body of knowledge is commonly used to meet both federal and provincial process needs in accordance with the existing *Canada-Ontario Agreement on Environmental Assessment Cooperation*.

Table E.2 provides a preliminary listing of the provincial environmental approvals that are expected to be required to construct, operate and close the Upper Beaver Gold project site based on the preliminary project design.

There are no facilities planned in the Québec, and no transboundary negative impacts from the Upper Beaver Gold project are anticipated.

E.3.3 Municipal

The project is located within the boundaries of the Township of Gauthier Official Plan and Township of Larder Lake Official Plan. Agnico Eagle is in discussions to determine if rezoning of the lands is required.



Table E.1: Preliminary List of Potential Federal Approvals

Department	Act, Approval and Project-related Activities
Environment and Climate Change Canada	<i>Fisheries Act</i> , Schedule 2 Listing (Metal and Diamond Mining Effluent Regulations) [new]: <ul style="list-style-type: none"> - Storage of mineral waste covering minor tributaries that are frequented by fish - An alternative assessment for mineral waste disposal in the prescribed format will be required along with an approved fish habitat compensation plan
Fisheries and Oceans Canada	<i>Fisheries Act</i> , Authorization for Harmful Alteration, Disruption or Destruction of Fish Habitat or Death of Fish by means other than Fishing [new]: <ul style="list-style-type: none"> - Direct impacts to fish habitat including overprinting of waterbodies and construction of structures in waterbodies / watercourses - Indirect impacts to fish habitat including flow reductions - An approved fisheries offset plan will be required
Natural Resources Canada	<i>Explosives Act</i> , Licence for Magazine [new or amendment]: <ul style="list-style-type: none"> - Storage of explosives (magazine)
Transport Canada	<i>Canada Navigable Waters Act</i> : Approval under the Navigation Protection Program [new]: <ul style="list-style-type: none"> - Diversion of unscheduled watercourse to provide for safe mining

Note:

Although not expected, a federal *Species at Risk Act* permit could be required.



Table E.2: Preliminary List of Potential Provincial Approvals

Ministry	Act, Approval and Project-related Activities
Ministry of Northern Development, Mines, Natural Resources and Forestry	<i>Mining Act</i> , Closure Plan [new]: <ul style="list-style-type: none"> - Progressive reclamation and final closure of the site - Construction of dykes above the high water mark of watercourses if any
	<i>Ontario Environmental Assessment Act</i> , Class Environmental Assessment(s) for Resource Stewardship and Facility Development Projects [new]: <ul style="list-style-type: none"> - Based on the preliminary project design, the Upper Beaver Gold project is expected to require completion of this Class Environmental Assessment, subject to regulatory confirmation.
	<i>Public Lands Act</i> or <i>Lakes and Rivers Improvement Act</i> , Work Permits [new]: <ul style="list-style-type: none"> - Construction of facilities on Crown land including below the high water mark of waterbodies / watercourses
	<i>Public Lands Act</i> , Land Use Permit [new]: <ul style="list-style-type: none"> - Temporary land tenure for facilities off the mining lease if required
	<i>Crown Forest Sustainability Act</i> , Forest Resource Licence (Cutting Permit) [new]: <ul style="list-style-type: none"> - For cutting of merchantable timber for site development
	<i>Fish and Wildlife Conservation Act</i> , Permit to Collect Fish for Scientific Purpose [new]: <ul style="list-style-type: none"> - Fish transfer during construction - Fisheries investigations during construction, operation and closure
	<i>Aggregate Resources Act</i> , Aggregate Permit [new]: <ul style="list-style-type: none"> - If the proposed field investigations are successful in finding an appropriate resource, Agnico Eagle may pursue an aggregate resource permit to provide a source of aggregate to support the mine construction and operation
Ministry of the Environment, Conservation and Parks	<i>Ontario Water Resources Act</i> , Permit to Take Water [new or amendment]: <ul style="list-style-type: none"> - Dewatering activities in support of construction and longer term mine dewatering - Fresh water supply
	<i>Environmental Protection Act</i> , Environmental Compliance Approval for Industrial and Domestic Sewage Works [new or amendment]: <ul style="list-style-type: none"> - Mine water, process water and contact water, tailings management and domestic sewage
	<i>Environmental Protection Act</i> , Environmental Compliance Approval for Air and Noise [new or amendment]: <ul style="list-style-type: none"> - Atmospheric emissions from project
	<i>Ontario Environmental Assessment Act</i> , Class Environmental Assessment(s) for Class Environmental Assessment for Minor Transmission Facilities [new]: <ul style="list-style-type: none"> - Based on the preliminary project design, the Upper Beaver Gold project is expected to require completion of this Class Environmental Assessment, based on the anticipated length of the line (greater than 2 km length) in comparison to the Electricity Projects Regulation.

Note:

Although not expected, a provincial *Endangered Species Act* permit could be required.



F. POTENTIAL EFFECTS OF THE PROJECT

F.1 Changes to Fish and Fish Habitat, Aquatic Plants and Migratory Birds

Table F.1 provides a preliminary listing of changes to the following that may result from the construction, operation and closure of the Upper Beaver Gold project:

- Fish and fish habitat as defined in subsection 2(1) of the *Fisheries Act*; and
- Migratory birds, as defined in subsection 2(1) of the *Migratory Birds Convention Act, 1994*.

No changes to federal aquatic Species at Risk as defined in subsection 2(1) of the *Species at Risk Act* (marine plants) are anticipated, as none are known or expected to be present based on the multi-year environmental baseline studies completed to date.

This table should be considered preliminary and indicative only, subject to revision, including through the comprehensive effects assessment that will be completed as part of the Impact Assessment process and ongoing engagement activities.

F.2 Potential Changes to the Environment on Federal Lands or Lands outside Ontario

The Upper Beaver Gold project is not expected to result in changes to federal lands including Reserve lands. There are no federal lands near the project site, and no development is planned to occur on federal lands or Reserve lands.

The project is not expected to result in changes to the natural and biophysical environment outside of Ontario, as will be confirmed through future modelling. The air quality assessment will evaluate potential transboundary impacts on ambient air quality, based on proximity of the Upper Beaver Gold project to the Ontario – Québec border.

Based on proximity of the Upper Beaver Gold project to the Ontario – Québec border, it is expected that some workers and contractors may travel to the site from Québec, and not just from Ontario. In addition, there will be one to two trucks per day transporting copper concentrate to a purification / refining facility in Québec over the existing Ontario / Québec highway infrastructure. Agnico Eagle does not propose to transport product by railway.

The project is not of a scale or location that could result in changes to the environment outside of Canada.

F.3 Potential Effects to Indigenous Peoples – Heritage, Traditional Lands and Other

Section B.2 provides a brief summary of concerns raised by Indigenous Peoples during ongoing engagement activities to date, including through their review of a Draft Initial Project Description. The Upper Beaver Gold project may result in effects to Indigenous Nations and Peoples and diverse population groups, culture, Treaty rights, and Traditional and current uses, such as through potential changes to land access, loss of traditional lands and ability to hunt, fish, gather and/or trap as well as the ability to practice their culture. These potential effects will be investigated through the environmental approvals process for the mine and ongoing engagement activities.



Table F.2 provides a preliminary assessment of potential effects of the Upper Beaver Gold project, developed in part through ongoing engagement activities, described briefly in Appendices A and B, including through a review of a draft of this Initial Project Description by the BHFN, MFN and WFN.

In summary:

- Agnico Eagle is engaging with Indigenous Nations and Peoples with respect to the construction, operation and closure of the Upper Beaver Gold project, including the determination of the potential for impacts to physical and cultural heritage, and how the project may impact diverse population groups within these Indigenous Nations.
- There are 10 registered archaeological sites located near (within 2 km) the project. These sites were fully investigated and only two sites confirmed to have ongoing or moderate cultural heritage value or interest by the archaeologists. The sites have not been fenced in order to allow for ongoing First Nation use, but have been designed as no work zone areas. These sites are not expected to be altered by the proposed Upper Beaver Gold project development.
- Agnico Eagle acknowledges that there are sites for which studies have not shown having cultural heritage value or interest by following Ministry of Heritage, Sport, Tourism and Cultures Industries Standards and Guidelines, but which could still have spiritual, sentimental, and traditional value and interest for Indigenous Nations in the area of the project. Some sites could be potentially altered by the proposed project.
- The Upper Beaver Gold project may result in effects to Indigenous Peoples, treaty rights and historic and current land and resource uses. This may include potential changes to land access, loss of traditional lands and ability to hunt, fish, gather and/or trap as well as the ability to practice their culture.
- The Upper Beaver Gold project may have effects on diverse population groups which will be assessed in the Impact Statement. Potential effects may include: effects on Indigenous women, elders, youth, etc.; effects on Indigenous women's safety; and/or changes on community well-being and health of Indigenous Peoples.
- These potential effects will be investigated through the environmental approvals process for the mine and ongoing engagement activities.
- Agnico Eagle believes that there will be positive economic effects as a result of the Upper Beaver Gold project, including employment and business opportunities (for individuals, as well as Indigenous communities).

F.4 Potential Effects to Indigenous Peoples – Social, Economic and Health Conditions

Agnico Eagle is engaging with Indigenous Nations to determine the potential concerns and impacts to health, social and economic conditions due to the Upper Beaver Gold project. Section B.2 lists concerns raised by Indigenous Nations related to these aspects during ongoing engagement activities to date. There may be potential effects on community health and well-being as a result of the project, which will be determined through engagement with Indigenous Nations to understand community health and well-being and social determinants of health.

Agnico Eagle believes that the overall effect to Indigenous Peoples from the Upper Beaver Gold project can be positive, particularly with respect to economic conditions. Key initiatives to support this effect include the ability to participate in employment and business opportunities (for individuals, as well as Indigenous Nations).



Agnico Eagle acknowledges there could also be negative effects to Indigenous Peoples associated with the Upper Beaver Gold project, which will be determined through ongoing engagement activities, such as:

- The effect of developments on historic and current, lands and resource uses, and ways of life / culture;
- Human health related to project emissions (effluent, air quality and noise);
- Contribution to cumulative effects already being experienced in the region; and
- Impacts to physical infrastructure in the region including road safety.

The Upper Beaver Gold project may have effects on diverse population groups which will be assessed in the Impact Statement. Potential effects may include: effects on Indigenous women, elders, youth, etc.; effects on Indigenous women's safety; and/or changes on community well-being and health of Indigenous Peoples. These potential effects will be determined through ongoing engagement activities and the environmental approvals process for the mine. Agnico Eagle is engaging with Indigenous Nations to develop Indigenous Knowledge studies and to understand the culture of Indigenous Nations. Information gathered through the Indigenous Knowledge studies will inform baseline conditions and mitigation measures. Indigenous Knowledge will be validated with Indigenous Nations to ensure information is captured and used appropriately.

Table F.2 provides a preliminary assessment of potential effects of the Upper Beaver Gold project informed in part by a review of a draft of this Initial Project Description by the BHFN, MFN and WFN.

F.5 Estimate of Greenhouse Gas Emissions

The Upper Beaver Gold project will be a source of direct (Scope 1 and 2) and indirect (Scope 3) greenhouse gas emissions, producing emissions of carbon dioxide (CO₂), nitrous oxide (N₂O), and methane (CH₄) associated with the combustion of fossil fuels. The primary sources of direct greenhouse gas emissions from each project phase are expected to be:

- Construction: diesel combustion in mobile equipment;
- Operation: diesel combustion in mobile equipment, blasting in the open pit and underground, processing of ore and indirect emissions from purchased grid power; and
- Closure: diesel combustion in mobile equipment.

An estimate was developed of net greenhouse gas emissions associated with the Upper Beaver Gold project for each of the construction, operation, and closure phases, in accordance with the Strategic Assessment of Climate Change guidelines (ECCC 2020). The assessment considered all sources, sinks and reservoirs relevant to the project to determine the net greenhouse gas emissions for each year, as well as the total greenhouse gas emissions for the life of the project.

The following sources and sinks were considered:

- Direct (Scope 1) emissions included diesel combustion in stationary power and heat equipment, for mobile equipment used onsite, and released from explosive detonation;
- Acquired energy (Scope 2) emissions are the purchased electricity that will be supplied by the new transmission line for the Project; and
- Land use changes at the Project.



The emissions of individual greenhouse gas emissions were converted to an equivalent emission of carbon dioxide (CO₂Eq) using the global warming potentials cited in Schedule 3 of the *Greenhouse Gas Pollution Pricing Act*, which are consistent with the Intergovernmental Panel on Climate Change *Fourth Assessment Report AR4* (IPCC 2007) and the Canadian *National Inventory Report* (ECCC 2021).

The maximum net greenhouse gas emissions per year are estimated to be 31.1 kilotonne-CO₂Eq/year, which includes 21.5 kilotonne-CO₂Eq/year of direct emissions (Scope 1), 8.4 kilotonne-CO₂Eq/year acquired energy emissions (Scope 2), and 1.2 kilotonne-CO₂Eq/year from the potential loss of carbon uptake due to the change in land use. The net greenhouse gas emissions for the total Project are estimated to be on the order of 355.9 kilotonne-CO₂Eq. A detailed analysis of greenhouse gas emissions and mitigation measures will be prepared in support of the Impact Statement if an Impact Assessment is required.

The Upper Beaver Gold project has a number of implicit and explicit design elements that will reduce greenhouse gas emissions. The use of electricity from the provincial grid will provide the project with low carbon intensity energy. Grid power will be used to meet project stationary equipment power demands, thereby reducing direct greenhouse gas emissions at site. Strategic mine planning will optimize distances travelled by haul trucks. The use of energy-efficiency equipment and an effective maintenance program will also reduce fuel consumption and the associated greenhouse gas emissions.

As a member of the Mining Association of Canada, Agnico Eagle adheres to the *Towards Sustainable Mining* standard, including the *Climate Change Protocol* (MAC 2021). In 2017, Agnico Eagle adopted an *Energy and Greenhouse Gas Management Strategy* to address climate change and reductions to the corporate carbon footprint. In 2021, the Company committed to an aspirational target of net zero carbon target by 2050, and committed to support the recommendations of the Task Force on Climate Related Financial Disclosures. Many corporate level initiatives are underway to reduce the carbon footprint of mining activities through the integration of renewable energy, energy storage, and fleet electrification. The outcomes of these programs will be carried forward to the project as applicable.

Agnico Eagle understands that carbon offset projects can be a practical and complementary option to support the organization's efforts and commitment to reducing its greenhouse gas emissions, and ultimately achieve its net zero carbon target for 2050. Agnico Eagle will continue to evaluate this option, as a supplement to more specific reduction actions and other key climate-related initiatives in the coming years, as we continue to move forward on our pathway to achieve net zero.

F.6 Wastes and Emissions

Table F.3 provides a brief summary of the types of wastes and emissions that are likely to be generated from the Upper Beaver Gold project, in the air, in or on water and in or on land, during the construction, operation, closure phase of the project.



F.6.1.1 Atmospheric Emissions

Air Emissions

Air emissions will derive from point sources and fugitive sources with fugitive sources likely to contribute the majority of the air emissions. The primary point source air emissions are expected to be suspended particulate (dust) from the conveyors and crusher(s). Measures will be taken to minimize dust creation at the plant site and to utilize dust collection devices where practical. Primary crushing is expected to take place in an enclosed structure to provide shelter and to reduce dust escaping into the environment. Additional dust control will be installed if needed.

Fugitive dust will be released from: drilling and blasting operations; loading and offloading of overburden, mine rock and ore; vehicle and heavy equipment travel; and from wind entrainment from the tailings stack / stockpiles and other exposed aggregates or earth materials. Water and other approved dust suppressants will be used as required to control dust emissions.

Diesel fuel combustion, such as in vehicle and heavy equipment during all project phases will release particulates, sulphur dioxide, and nitrogen oxides. Nitrogen oxides, carbon dioxide and other trace gases will also be released from explosives usage.

Noise Emissions

The principal anthropogenic noise sources during the operation of the Upper Beaver Gold project are expected to derive from open air, heavy equipment operation, such as that associated with the mining and handling of overburden, ore and mine rock, and underground mine ventilation. Plant site operations including crushing and grinding operations will be enclosed and emissions are expected to be minor in comparison to open air noise sources. During the mine construction and closure phases, there will be additional heavy equipment operation that will contribute to noise emissions.

Noise source modeling will be carried out to ensure that noise and noise related effects are fully considered during engineering design, with appropriate mitigation measures employed to minimize potential effects.

Ambient Light

The use of artificial lighting at the Upper Beaver Gold project site during all phases of the project will introduce stationary and mobile light sources. Light effects may include light trespass / spill from the site and an increase in sky glow. A lighting strategy will be employed and will incorporate good lighting practice and design as mitigation.

F.6.1.2 Liquid Discharges

Minewater and Surface Contact Waters

The underground mine will intercept groundwater, while the open pit will collect groundwater, runoff and direct precipitation. Modelling will be completed to assess the volume of water requiring management, which will be used in the design of the water management facilities on site. Minewater can be expected to contain suspended solids from general mining and earthmoving activities; ammonia residuals from ammonia-based explosives; and residual hydrocarbons from heavy equipment operation. Leaching of the exposed bedrock within the open pit may also potentially contribute minor quantities of metals to the minewater. Sumps will be used to collect the mine water locally for pumping to a central water retention pond before treatment.



Surface runoff that comes into contact with mine-related facilities will be collected in ditches / collection ponds and pumped to the primary retention pond for management and treatment. The majority of site runoff is not anticipated to pose a water quality concern. Runoff from the ore, mine rock and overburden stockpiles may contain suspended solids as well as metal concentrations (ore and mine rock only).

A treatment plant will be established to ensure that excess water from the retention pond meets all regulatory requirements and can be discharged to the environment. The discharge location has not as yet been determined, but will be selected to ensure there is sufficient assimilative capacity.

Processing Plant and Tailings Water

Excess processing plant, including water resulting from filtering of tailings, is expected to contain heavy metals, and residual cyanide and ammonia. The effluent may be treated within the plant or may be directed to the retention pond for combined treatment with the minewater / other site contact waters. All effluent discharged from the site will be treated to meet regulatory requirements.

Domestic Sewage

As there will be no accommodation on site, the volume of domestic sewage include grey water from the mine dry will be limited. Domestic sewage during the construction and operations phase will be treated by an appropriately-sized, technically acceptable method, such as a sewage treatment plant. Effluent meeting regulatory requirements will be either directed to the retention pond, or potentially discharged directly to the environment.

F.6.1.3 Solid Wastes

Domestic Waste

Domestic wastes produced at the project site during all project phases are likely to include: food scraps, refuse, clothing, metal tins, scrap metal, glass, plastic, wood and paper. These materials will be transported off site for management according to regulations.

Special Management Waste

Special management wastes at the site are expected to include: waste petroleum products and packaging, waste glycol, petroleum contaminated soil, waste explosives and biomedical waste. Special management wastes produced during all project phases, will be stored indoors and/or in sealed containers in lined, bermed areas (or other means of secondary containment) until they can be transported to an appropriately licensed facility off site.

Demolition Waste

Salvageable machinery, equipment and other materials will be dismantled and taken off site for sale or reuse if economically feasible. A dedicated non-hazardous landfill may be developed during the closure phase for storage of demolition wastes, such as concrete, steel, wallboard and similar materials.

F.7 Overview of Potential Environmental Effects

Tables F.2 and F.3 provides an overview of changes to the environment (current baseline conditions) and preliminary assessment of the potential effects of the Upper Beaver Gold project. Mitigation measures will be included in the project design and activities as needed to make sure that all regulatory requirements are met. The information presented will be clarified through ongoing engagement activities, the



environmental approvals process and engineering investigations and studies for the mine. A comprehensive effects assessment, informed by site-specific investigations and modelling efforts, as applicable, will be completed and summarized in an Impact Statement if an Impact Assessment is required. Table F.4 provides an overview of comments received to date and proposed preliminary approach to address these aspects, including in the site design as appropriate.

Anticipated wastes and emissions currently anticipated for the Upper Beaver Gold project are summarized in Section F.6 and Table F.3. Further detail regarding wastes and emissions will be determined through ongoing engineering and the environmental approvals process, including the Impact Assessment process if applicable.

Agnico Eagle believes that there will be limited potential for accidents or malfunctions related to the Upper Beaver Gold project with the proposed robust project design that is protective of the environment, along with appropriate design and monitoring safeguards in due consideration of climate change as appropriate, and practical environmental management practices. Should an Impact Assessment be required Agnico Eagle will identify and document the management of potential accidents and malfunctions that are applicable to the project in the Impact Statement.

The *Impact Assessment Act* requires that cumulative effects be considered that are likely to result from the designated project in combination with other physical activities that have been or will be carried out. For the Upper Beaver Gold project, it is anticipated this would include cumulative effects associated with the exploration program and advanced exploration program at the site. Agnico Eagle is purposefully developing the Upper Beaver Gold project (the mine), to expand and/or modify facilities that are being developed during the advanced exploration program in order to minimize environmental disturbance as practical.

Cumulative effects will be assessed in the Impact Statement if required, in accordance with Impact Assessment Agency of Canada guidance. Based on the Summary of Issues, Agnico Eagle anticipates that potential cumulative effects will need to be assessed in relation to current and historical mineral exploration activities, existing mine hazards, nearby forestry activities, downstream water control structures and hydroelectric developments. Agnico Eagle is unaware of any other projects, apart from their exploration / advanced exploration program that could cause the Upper Beaver Gold project to have a cumulative effect on the environment.



Table F.1: Preliminary List of Changes to the Environment under Federal Jurisdiction

Environmental Component	Project Phase	Potential Source of Effect	Potential Change to the Environment	Preliminary Area of Influence
Fish and fish habitat, as defined in subsection 2(1) of the <i>Fisheries Act</i>	Construction	<ul style="list-style-type: none"> - Diversion of waterbodies / watercourses - Installation of temporary and permanent infrastructure 	<ul style="list-style-type: none"> - Alteration, disruption and destruction of fish and benthic fauna habitat from direct disturbance, blasting and mine dewatering - Change to the natural surface water flow pattern - Surface water quality alteration (meeting regulatory requirements, but not at background levels at discharge location) 	<ul style="list-style-type: none"> - Project footprint - Project footprint - Project footprint and a short mixing zone downstream of the discharge location in the Misema River
	Operations	<ul style="list-style-type: none"> - Water management and treatment 	<ul style="list-style-type: none"> - Surface water quality alteration (meeting regulatory requirements, but not at background levels at discharge location) 	<ul style="list-style-type: none"> - Project footprint and a short mixing zone downstream of the discharge location in the Misema River
	Closure	<ul style="list-style-type: none"> - Site reclamation and closure 	<ul style="list-style-type: none"> - Surface water quality alteration until discharge ends and site is reclaimed - Potential for creation of fish habitat in new pit lake, expected to be re-connected to the Misema River system 	<ul style="list-style-type: none"> - Project footprint and a short mixing zone downstream of the discharge location in the Misema River - Project footprint



Environmental Component	Project Phase	Potential Source of Effect	Potential Change to the Environment	Preliminary Area of Influence
Migratory birds, as defined in subsection 2(1) of the <i>Migratory Birds Convention Act, 1994</i>	Construction	<ul style="list-style-type: none"> - Clearing of habitat to allow for site construction - Installation of permanent facilities - Additional vehicle traffic 	<ul style="list-style-type: none"> - Habitat loss - Disturbance of species - Increased risk of collision or mortality 	<ul style="list-style-type: none"> - Project footprint - Potential limited area outside the footprint related to noise disturbance - Primarily related to local roads
	Operations	<ul style="list-style-type: none"> - Operation of permanent facilities - Additional vehicle traffic 	<ul style="list-style-type: none"> - Disturbance of species - Increased risk of collision or mortality 	<ul style="list-style-type: none"> - Potential limited area outside the footprint related to noise disturbance - Primarily related to local roads
	Closure	<ul style="list-style-type: none"> - Site reclamation and closure 	<ul style="list-style-type: none"> - Habitat redevelopment 	<ul style="list-style-type: none"> - Project footprint



Table F.2: Preliminary Summary of Potential Environmental Effects

Environmental Component	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
<p>Air Quality, Greenhouse Gases, Noise and Light</p>	<ul style="list-style-type: none"> - Air emissions have the potential to generate dust or products of petroleum hydrocarbon combustion - Noise emissions from the project have the potential to disturb other area users - Greenhouse gas emissions from project have a minor potential to contribute to global carbon dioxide emissions - Operation of an industrial facility will cause a localized light glow that is visible off site - Impacts on how and where Indigenous Nations Rights are exercised <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - Air quality regulatory requirements will be met at property boundary - Noise regulatory requirements will be met at nearest receptor (cottage) - A night glow is expected to be visible off site 	<ul style="list-style-type: none"> - Provincial regulatory requirements will be met for on-site emissions and air quality at the property boundary - Provincial regulatory criteria will be met for on-site emissions and at surrounding noise sensitive locations, such as cottages - Agnico Eagle believes that carbon offset projects can be a practical and complementary option to support reducing greenhouse emissions, and will consider this form of mitigation for the project - Appropriate management practices / plans will be developed and implemented - Water sprays will be used to control dust emissions from haul roads and construction areas, and best management practices will be followed for dust control during operations - Measures will be used to reduce sound emission effects, such as: developing a compact site, maintaining tree screens around work areas, reducing the overall height of stockpiles, maintaining equipment in good working order and utilizing efficient mufflers - Development of a compact overall site, as proposed, will reduce haulage / transportation distances for greater fuel economy and reduce greenhouse gas emissions - Maintaining equipment and vehicles in good working order also improves on fuel combustion efficiency - Care will be taken to ensure lights are properly aimed to minimize off-site light disturbance



Environmental Component	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
Local waterbodies / watercourses	<ul style="list-style-type: none"> - Project development may overprint small creeks and beaver ponds, and have the potential to reduce downstream flow in the immediate vicinity, but flow is returned to the same watershed elsewhere - A portion of the local surface water system will require dewatering (York Lake) and diversion (Misema River) in order to safely mine the underground resources - An intake / discharge location is proposed (to be determined), which has the potential to affect water quality and flows - Three or more new crossings at locations to be determined may be needed - Impacts on how and where Indigenous Nations Rights are exercised <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - Effluent quality will meet regulatory requirements before release to environment - There may be a small area downstream of the discharge location (mixing zone) where water quality may not be the same as the background water quality 	<ul style="list-style-type: none"> - Effluent discharge to the environment will meet all federal and provincial regulatory requirements - In-water structures will be designed to avoid interference with navigation as reasonable - Establishment of an open pit will support the removal of historic mine rock and tailings that are currently within or adjacent to the Misema River system - Preliminary plan is to re-connect the water re-filled open pit (pit lake) to the Misema River system on closure, which will increase the overall lake size for future uses
Groundwater System	<ul style="list-style-type: none"> - Open pit and potentially underground mine dewatering will affect the local groundwater levels and may affect surface water flows, although not expected to be material based on historical information - Groundwater quality is not expected to be affected <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - Dewatering may result in a depression in the local groundwater level, but based on historical information, it is anticipated to be narrow and primarily limited to the project footprint 	<ul style="list-style-type: none"> - Modelling investigations will fully assess potential effects to support mitigation, if needed - Groundwater levels will return after the mine workings, including the open pit, flood at closure



Environmental Component	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
Fish and Fish Habitat	<ul style="list-style-type: none"> - Project development may overprint small creeks and ponds which are fish frequented; - Project footprint and dewatering has the potential to impact water levels downstream flow volumes in the immediate vicinity, but flow is returned to the same watershed elsewhere - A portion of the local surface water system will require diversion (Misema River) to isolate York Lake which will be removed (destroyed) by the open pit in order to safely mine the underground resources. - Effects of blasting (Vibration and overpressure) may kill or disrupt aquatic species - An intake / discharge location is proposed (to be determined), which has the potential for habitat disturbance - Three or more new water crossings at locations to be determined may be needed, which has the potential for habitat disturbance <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - Habitat disturbance will be limited to project footprint - Effluent quality will meet regulatory requirements before release to environment and will be protective of aquatic life 	<ul style="list-style-type: none"> - Effluent discharge to the environment will meet all federal and provincial regulatory requirements - In-water structures will be designed to avoid interference with navigation as reasonable - Compensatory aquatic habitat, which will be consulted upon and approved through a rigorous federal process, will be provided to mitigate effects to aquatic resources, including habitat loss - Establishment of an open pit will support the removal of historic mine rock and tailings that are currently within or adjacent to the Misema River system - Preliminary plan is to re-connect the water re-filled open pit (pit lake) to the Misema River system on closure, which may include establishment of fish habitat - Best management practices, measures to protect fish and fish habitat; and standards and code of practices will be implemented where reasonable.
Natural Vegetation and Wildlife	<ul style="list-style-type: none"> - Wildlife (and including Moose and other furbearers) may be disturbed by site activities and disturbance, including noise - Mine site and related infrastructure development, if any, will displace existing terrestrial habitat - Mine site development may displace existing terrestrial habitat for Species at Risk 	<ul style="list-style-type: none"> - The majority of the site has been previously disturbed through past forestry, exploration or mining activities, or will be disturbed by the proposed advanced exploration program, but some areas to be affected remain a more natural condition - A compact site for the new mine will be developed to limit disturbance to new areas as reasonable



Environmental Component	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
	<ul style="list-style-type: none"> - Impacts on how and where Indigenous Nations Rights are exercised <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - Habitat disturbance will be limited to project footprint - Potential limited area outside the footprint related to noise disturbance - Increase potential for wildlife collision primarily on local roads 	<ul style="list-style-type: none"> - Tree clearing will be avoided during the bird nesting season - The site will be reclaimed after mining ends to support future productive habitat
Hunting, Trapping, Fishing and Tourism	<ul style="list-style-type: none"> - Limited effect as the mine is to be located on an active advanced exploration program site on private property, where access is controlled / restricted for safety of workers. - There will be a more extensive disruption to the local experience in the immediate vicinity of the site from the larger scale mining operation <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - Potential limited area outside the footprint related to noise disturbance, including Ava Lake and a portion of Beaverhouse Lake 	<ul style="list-style-type: none"> - Agnico Eagle intends to continue work with its neighbours to mitigate potential localized effects during operation - Hunting will continue to be restricted on the project site in order to ensure the safety of workers and others - On closure, the disruption will cease and the existing hazards in York Lake (tailings and mine rock) will be removed, which will enhance the area in the future - The preliminary plan is to connect the pit lake from the flooding of the open pit to the Misema River system on closure, which will increase the overall lake size for future uses
Commercial Operations	<ul style="list-style-type: none"> - Could limit access to people and resources for other operations and potentially draw local people back to the area for jobs <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - To be determined 	<ul style="list-style-type: none"> - No mitigation measures are proposed, other than to optimize economic benefits to the local and regional economies, including to local Indigenous Nations as reasonable



Environmental Component	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
Traditional use of lands and resources	<ul style="list-style-type: none"> - Effects on spiritual relationships and connection with the environment - Effects on locations of sentimental, traditional and heritage value - Effects on traditional use of lands and resources as sites of value and interest to First Nation(s) - Effects on cultural practices - Changes to land and resources resulting in effects on exercising rights <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - Potential limited area outside the mine-held lands related to noise disturbance 	<ul style="list-style-type: none"> - Ongoing engagement with Indigenous Nations to mitigate potential effects
Indigenous / Public Health and Safety	<ul style="list-style-type: none"> - All regulatory requirements (such as for air quality, noise, water quality and similar) will be met - Effects on Indigenous women's safety - Effects on Indigenous women, youth, elders, etc. - Changes to community safety and well-being and health of Indigenous Peoples - Increased risk of vehicle collision due to increased traffic 	<ul style="list-style-type: none"> - Agnico Eagle will work with local Indigenous Nations with an aim of helping ensure the project will provide a positive benefit - Traffic management and awareness will reduce potential for accidents on public roads - Potential to establish a road extension for local cottage traffic
Socio-economics	<ul style="list-style-type: none"> - Benefits including employment and procurement opportunities - Benefits for education and training opportunities - Effects on healthcare services and providers - Effects on traffic due to mine personnel commuting to site 	<ul style="list-style-type: none"> - Agnico Eagle will work with local Indigenous Nations and with communities with an aim of helping ensure the project will provide a positive benefit



Environmental Component	Potential Effect (Preliminary)	Proposed Mitigation (Preliminary)
Physical and cultural heritage	<ul style="list-style-type: none"> - No anticipated effect to known archaeology sites - Effects to cultural heritage to be determined <p>Preliminary Areal Extent:</p> <ul style="list-style-type: none"> - Heritage disturbance will be limited to project footprint 	<ul style="list-style-type: none"> - Archaeological studies have been conducted and no cultural heritage features or artefacts have been identified in locations of proposed development - This will continue to be reviewed as the project's designs and progress, including relation to the diversion of the Misema River, and mitigation will be completed, if needed - Measures will be put in place to identify any as yet undetected features or artefacts during construction
Identified structures or sites *	<ul style="list-style-type: none"> - No effect expected, pending determination of diversion routing / water levels 	<ul style="list-style-type: none"> - None expected to be required, other than protection

Notes:

* Structures or sites of historical, archaeological, palaeontological or architectural significance.

This preliminary assessment of potential effects was developed in part through ongoing engagement activities, including through a review of a draft of the Initial Project Description by the BHFN, MFN and WFN.



Table F.3: Preliminary Listing of Types of Wastes or Emissions

Environmental Component	Project Phase	Anticipated Waste or Emission	Primary Project Sources
In the air	Construction, Operations and Closure	<ul style="list-style-type: none"> - Dust emissions - Air emissions including greenhouse gas emissions from machinery and equipment - Noise emissions - Light 	<ul style="list-style-type: none"> - Blasting, crushers, conveyors, tailings storage facility, stockpiles, roads and laydown areas - Processing plant, mobile equipment - Open pit blasting, crusher, stockpiling activities - Site illumination for safety
In or on land	Construction	<ul style="list-style-type: none"> - Domestic solid waste - Regulated and non-regulated, industrial solid and liquid waste - Mineral waste (overburden and mine rock) - Vibration 	<ul style="list-style-type: none"> - Processing plant, maintenance, office - Processing plant, maintenance, office - Open pit and underground mine
	Operations	<ul style="list-style-type: none"> - Domestic solid waste - Regulated and non-regulated, industrial solid and liquid waste - Mineral waste (overburden, mine rock and tailings) - Vibration 	<ul style="list-style-type: none"> - Processing plant, maintenance, office - Processing plant, maintenance, office - Open pit and underground mine
	Closure	<ul style="list-style-type: none"> - Domestic solid waste - Regulated and non-regulated, industrial solid and liquid waste 	<ul style="list-style-type: none"> - Processing plant, maintenance, office - Demolition activities, maintenance, office
In or on water	Construction	<ul style="list-style-type: none"> - Treated contact runoff discharged to the Misema River as effluent - Treated domestic sewage - Vibration 	<ul style="list-style-type: none"> - Project site (captured in water management infrastructure and treated in ponds and water treatment plant) - Sewage treatment plant - Explosive use (open pit)
	Operations	<ul style="list-style-type: none"> - Treated contact runoff and effluent discharged to the Misema River - Treated domestic sewage - Vibration 	<ul style="list-style-type: none"> - Project site (captured in water management infrastructure and treated in ponds and water treatment plant) - Sewage treatment plant - Explosive use (open pit)



Environmental Component	Project Phase	Anticipated Waste or Emission	Primary Project Sources
In or on water (continued)	Closure	<ul style="list-style-type: none"> - Treated contact runoff and effluent discharged to the Misema River - Treated domestic sewage 	<ul style="list-style-type: none"> - Project site (captured in water management infrastructure and treated in ponds and water treatment plant) - Sewage treatment plant



Table F.4: Preliminary Comments and Preliminary Approach / Actions

Summary of Preliminary Comments / Concern regarding the Upper Beaver Gold project	Preliminary Approach to Address / Actions
<ul style="list-style-type: none"> - Will access be retained to Beaverhouse Lake? - How will the spawning beds / closure to the boat launch at Beaverhouse Lake be affected? 	<ul style="list-style-type: none"> - Agnico Eagle will ensure that access is retained to Beaverhouse Lake. The current plan is to establish a new, improved access route that will avoid the mine site. - There will be no direct effect on the spawning beds. Water levels in Beaverhouse Lake are proposed to be retained at current levels. Any potential indirect effects to Beaverhouse Lake will be fully assessed through the environmental regulatory process.
<ul style="list-style-type: none"> - Will Indigenous Knowledge be considered, such as location of medicinal plants, harvestable plants and wildlife? 	<ul style="list-style-type: none"> - Agnico Eagle hopes to be able to work with local Indigenous Nations to help document this information, so that it can be used in assessing potential effects from the Upper Beaver Gold project and developing appropriate mitigation strategies.
<ul style="list-style-type: none"> - Will local community members be able to be involved in the planning and approvals process? 	<ul style="list-style-type: none"> - There is a rigorous approvals process to develop any new mine in Ontario. As part of that process there are required periods when individual community members can comment. Agnico Eagle will respond to all comments received through this process, but also continue its ongoing process of consultation and engagement with Indigenous Nations, local cottagers and other stakeholders.
<ul style="list-style-type: none"> - York Lake is connected to a series of lakes. What will the effect be of draining the lake on the lake system? 	<ul style="list-style-type: none"> - The potential effects on the Misema River system will be fully assessed through the regulatory process. - Agnico Eagle intends to maintain the lake levels in the other lakes, by creating a diversion around York Lake before it is dewatered. - Because parts of York Lake were infilled historically with mine tailings and rock, the habitat in the lake is not the same as natural lakes. As part of the regulatory process, Agnico Eagle will need to develop a strategy to provide compensation for this loss of habitat. - Fish present in the lake will be removed as reasonable prior to completion of the dewatering of York Lake, and will be transferred to another reasonable location nearby in discussion with the approval of the regulatory authorities expected to be required.
<ul style="list-style-type: none"> - How big is the open pit? Will draining the lake help solve the problem of containing water from your underground workings? 	<ul style="list-style-type: none"> - The open pit is relatively small (about 330 m in length / less across) compared to some other open mines as it is part of what is primarily and underground mine operation. - Agnico Eagle will contract specialists to help assess the groundwater aspects of the underground mine to ensure both the safety of the workers, as well as being able to accurately assess potential environmental effects on the surrounding area prior to the development occurring.



Summary of Preliminary Comments / Concern regarding the Upper Beaver Gold project	Preliminary Approach to Address / Actions
<ul style="list-style-type: none"> - Dust, noise and traffic impacts (such as speed) are of concern - Dust emission, noise, vibration, light pollution and visual impact during operation - Quality of life for cottagers 	<ul style="list-style-type: none"> - Although this is a historic mining location and an area with a number of mines, Agnico Eagle acknowledges that development of a new mine will change the local area until the mine is closed and reclaimed. At that time, Agnico Eagle believe the local area will be improved, including with the removal of historic safety hazards and mine wastes (mine rock and tailings in/at York Lake). - Agnico Eagle believes that through proper mitigation many of the local concerns will be alleviated. These measures will be fully defined through the regulatory process but expected to include (but are not limited to): <ul style="list-style-type: none"> - Effective controls on dust (stockpiles design, retaining vegetation, use of water sprays) - Selecting quieter machine options (such as power supply) when reasonable - Keeping equipment well maintained - Where practical, locating facilities to minimize off-site effects - Proper road maintenance and imposing speed limits on any roads under Agnico Eagle control - Aiming lights purposefully where needed for safety. - Agnico Eagle will monitor the potential effects determined through the studies during construction and operation, and will apply additional mitigation measures if needed to reduce impacts.
<ul style="list-style-type: none"> - How will the site be cleaned up at closure? 	<ul style="list-style-type: none"> - During the mine construction and operation Agnico Eagle will remediate the historic hazards within the mine footprint. As reasonable, progressive reclamation will also occur during the operation phase for the effects of the mine, but most of the reclamation will occur after the mine closes. - A preliminary plan to reclaim the site will be included and provided for comment during the Impact Assessment process. In addition, a detailed regulatory Closure Plan will be required before any construction starts for the mine. As part of that process, Agnico Eagle will be required before mining starts, to provide the provincial government with financial assurance (such as a bond), for the full amount to close the mine to ensure the public is protected.
<ul style="list-style-type: none"> - Will there be contracting and jobs available? 	<ul style="list-style-type: none"> - Agnico Eagle will set up a process to ensure that local communities are aware of potential opportunities. Although some of the contracts and jobs will be very specialized and may not be able to be filled locally, Agnico Eagle would like to ensure that local people also get benefits from the mine.



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APPENDIX A

COMMUNITY INPUT AND OUTCOMES - STAKEHOLDERS



APPENDIX A: COMMUNITY INPUT AND OUTCOMES – STAKEHOLDERS

The information below presents the collected input as well as the outcomes of the engagement activities conducted by Agnico Eagle between September 2020 and September 2021. Responses provided and key issues have been distinguished by project phase, based on the information available to date. Distinction for potential impact per project components will be made within the Impact Statement study and engagement activities.

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
COTTAGERS AND PROPERTY OWNERS											
LAND SHARING AND USE											
Quality of life	<ul style="list-style-type: none"> ▶ Project’s potential impacts on the cottager’s quality of life 			✓	✓	✓	✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle informed stakeholders of the baseline studies planned in 2021. ▶ Engagement activities planned in 2021 are validated with stakeholders and adjusted if deemed necessary. ▶ Agnico Eagle also held workshop meetings with cottagers to work on a collaborative approach where mitigation measures would be discussed according to each phase of the project. This will be part of the proposed collaboration based on a Good Neighbouring approach if accepted by the cottagers and land owners.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Quality of life (cont'd)	<ul style="list-style-type: none"> ▶ Project layout and use of an open pit 										<ul style="list-style-type: none"> ▶ Discussions regarding the concerns of the project layout will take place at future meetings. ▶ Agnico Eagle will provide more information on the rationale of the open pit.
	<ul style="list-style-type: none"> ▶ Possibility to use existing aggregate sources to avoid affecting local land 	✓						✓			<ul style="list-style-type: none"> ▶ If potential of aggregate is confirmed south of the site, Agnico Eagle will assess all possible options and select the best one. ▶ The proximity of the aggregates offers significant advantages in terms of costs and reduction of the amount of truck transportation.
Emergency measures	<ul style="list-style-type: none"> ▶ Safety of cottagers from mining activities in case of emergency (e.g., fire) 			✓	✓	✓	✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle follows regulations, including when there is a fire warning or ban. ▶ There will be eventually a safety person on the Upper Beaver site.
	<ul style="list-style-type: none"> ▶ Emergency alert system and evacuation protocol in case of emergency (e.g., fire) 		✓			✓	✓	✓			<ul style="list-style-type: none"> ▶ An emergency alert system will be developed when there are more workers on the site.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Potential property acquisition	<ul style="list-style-type: none"> ▶ Share with Agnico Eagle’s shareholders one cottager’s suggestion to evaluate the possibility of buying surrounding properties out 		✓		✓	✓					<ul style="list-style-type: none"> ▶ Agnico Eagle mentioned being open to analyze all suggestions and wish to reach a common agreement. ▶ A Good Neighbouring Approach has been suggested to cottagers to make the next steps more predictable and make sure solutions suit all parties. ▶ Agnico Eagle shared examples of Good Neighbouring Guide developed in collaboration with communities elsewhere to show its openness. ▶ Agnico Eagle presented guidelines for property acquisition.
Landscape	<ul style="list-style-type: none"> ▶ Visual aspect of infrastructure 			✓		✓	✓	✓			<ul style="list-style-type: none"> ▶ Infrastructure will be kept as low as reasonable (by considering footprint). ▶ Vegetation buffers will be kept.
Luminosity	<ul style="list-style-type: none"> ▶ Seeing the light from the site at their cottage 			✓		✓	✓	✓			<ul style="list-style-type: none"> ▶ Care will be taken to ensure lights are appropriately aimed to minimize off-site disturbance.
WILDLIFE											
N/A	▶ N/A										▶ N/A
FISH AND FISH HABITAT											
N/A	▶ N/A										▶ N/A



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
COMMUNITY ENGAGEMENT											
Engagement activities	<ul style="list-style-type: none"> Maintaining contact as the Project progresses 			✓	✓	✓	✓	✓	✓		<ul style="list-style-type: none"> Agnico Eagle is proposing and having frequent meetings with cottagers and land owners. Agnico Eagle also sends updates by email, shares Newsletters, provided a Q&A Document, and developed a website dedicated to the project.
	<ul style="list-style-type: none"> Influence of stakeholder feedback on the project design 			✓							<ul style="list-style-type: none"> Agnico Eagle is open to receiving suggestions for evaluation. Agnico Eagle is proposing to hold a workshop in the coming months to discuss different topics and get cottagers' input. Agnico Eagle encourages participating in the Impact Assessment Agency consultation.
	<ul style="list-style-type: none"> Lack of trust and information during the workshops of the Good Neighbour Approach 			✓		✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle is open to continuing the collaboration on a Good Neighbouring Guide with cottagers to manage concerns.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
WATER MANAGEMENT											
Water taking	<ul style="list-style-type: none"> ▶ Groundwater levels and quality with regards to future potential residential wells ▶ Water taking from Ava Lake and potential impact on surface water 			✓		✓	✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle will take this concern into consideration. ▶ According to current hydrology information, the project should not affect water levels. ▶ Necessary measures will be taken to ensure the dewatering plan meets regulatory approval.
Water diversion	<ul style="list-style-type: none"> ▶ Dewatering of York Lake 			✓			✓	✓			<ul style="list-style-type: none"> ▶ Rationale about the necessity of dewatering and diversion was provided to cottagers and land owners. ▶ The dewatering is required to ensure the safest and most sustainable development of the project. ▶ It is required to manage risk associated with rock stability issues at surface related to historical mining, to ensure safety of our workers and maintain the viability of the project.
Water quality	<ul style="list-style-type: none"> ▶ Contamination and regulatory requirement 			✓		✓	✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle will have water treatment designed to reach very low concentrations and meet regulations.



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TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Water quality (cont'd)	<ul style="list-style-type: none"> ▶ Toxicity concerns with regards to the tailings and water management ▶ Levels of heavy metals at the site 										<ul style="list-style-type: none"> ▶ Effluent limits are calculated with the capacity of the receiver. ▶ Agnico Eagle will continue testing for different metals at the Upper Beaver site to have a full understanding of the geology and to ensure proper management.
Water effluent	<ul style="list-style-type: none"> ▶ Location of the discharge effluent 	✓				✓					<ul style="list-style-type: none"> ▶ Effluent discharge will be located downstream of the Beaverhouse Lake, and the cottagers' area, in the Misema River.
SOCIOECONOMIC IMPACTS											
N/A	▶ N/A										▶ N/A
NOISE AND VIBRATION											
Noise	<ul style="list-style-type: none"> ▶ Noise caused by exploration activities 			✓	✓						<ul style="list-style-type: none"> ▶ Agnico Eagle developed an action plan for the summer of 2021. ▶ Agnico Eagle presented the action plan to cottagers in spring 2021. ▶ The plan has been implemented during summer 2021.
	<ul style="list-style-type: none"> ▶ Use waste rock berm to reduce noise from Advanced Exploration 		✓			✓					<ul style="list-style-type: none"> ▶ Agnico Eagle considered this is a potential additional mitigation measure that could be implemented following evaluation.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Noise (cont'd)	<ul style="list-style-type: none"> ▶ Noise from the crushing activities, ventilation fans and others ▶ Keep the crusher as far away from the residents as possible, to reduce the noise impacts 		✓	✓		✓	✓	✓			<ul style="list-style-type: none"> ▶ For Advanced Exploration, to reduce the potential noise levels, Agnico Eagle will install fans underground where reasonable and has designed the portal orientation to reduce noise to receivers. ▶ Other measures are considered such as using broadband backup signals, scheduling work to limit surface activities during the evening period, having noise barriers, etc. ▶ For the Upper Beaver Gold project, studies will be undertaken to assess the expected noise levels, after which we will develop the required measures to mitigate the noise impacts on the surrounding neighbourhood. ▶ For example, the crusher is planned to be placed inside a building and to be oriented towards the west and not towards the cottages.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Noise (cont'd)	▶ Noise from the pit operation			✓			✓	✓	✓	✓	<ul style="list-style-type: none"> ▶ As Agnico Eagle is still assessing the various scenarios of the production, detailed studies for the Upper Beaver Gold project have not yet been completed. ▶ Through Agnico Eagle’s extensive experience with underground and open-pit mining, best practices were developed to mitigate noise impacts.
	▶ Noise monitoring activities	✓			✓	✓	✓	✓		✓	<ul style="list-style-type: none"> ▶ Everywhere Agnico Eagle operates, the goal is to not only meet, but exceed regulatory requirements for health, safety and environmental protection. ▶ Agnico Eagle is committed to reducing noise from its activities, as much as possible, in addition to meeting regulatory requirements.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
ROAD SHARING AND TRAFFIC											
Road safety	<ul style="list-style-type: none"> Workers driving too fast on the road 			✓	✓	✓	✓	✓			<ul style="list-style-type: none"> With the progress of the different development phases, Agnico Eagle will increase its presence on-site. Agnico Eagle is committed to increasing awareness with its employees and contractors. Agnico Eagle is committed to maintaining road conditions under their control and improve the road as the development of the project progresses. An official complaint management mechanism was implemented. Speed radar and limit signs have also been installed.
	<ul style="list-style-type: none"> Having bus transportation for the employees 		✓			✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle will evaluate this option.
Road condition	<ul style="list-style-type: none"> Condition of the road that is shared 			✓	✓	✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle is committed to maintaining road conditions under their control and improving the road as the development of the project progresses.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Accessibility of the road	<ul style="list-style-type: none"> Maintaining the accessibility to their cottages by the boat launch 			✓		✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle will maintain access to the lake to land users. For Advanced Exploration, the same access will remain accessible. For the Production Phase, a portion of the road may be relocated. Alternatives will be discussed with different land users.
	<ul style="list-style-type: none"> Using trail on Agnico Eagle’s land instead of boat launch 	✓				✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle cannot guarantee to keep the existing access in the future, as it is located on the project site, but have no objection that cottagers using it until an alternative is available, unless unexpected safety considerations arise. Agnico Eagle will do his best to maintain access there.
Access to Beaverhouse Lake	<ul style="list-style-type: none"> Keeping the access to the lake (with the boat launch) 			✓		✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle will maintain access to Beaverhouse Lake.



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TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Access to Beaverhouse Lake (cont'd)	<ul style="list-style-type: none"> ▶ Having a new boat launch ▶ Not having a new boat launch to avoid increasing the number of users of the lake 		✓				✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle will hold a workshop with cottagers, land owners and other users of the boat launch to gather suggestions that would meet the needs of most users.
	<ul style="list-style-type: none"> ▶ Having a new access road from Fork Lake Road 		✓				✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle will assess the suggestions to confirm their feasibility.
AIR QUALITY AND DUST											
Dust management	<ul style="list-style-type: none"> ▶ Dust generated by a potential crusher on-site 			✓			✓	✓			<ul style="list-style-type: none"> ▶ Impact Statement will be done to confirm the potential impacts. ▶ Agnico Eagle is committed to mitigating impacts for the community. ▶ Agnico Eagle will meet the regulatory standards.
CLOSURE PLAN AND LAND REHABILITATION											
N/A	<ul style="list-style-type: none"> ▶ N/A 										<ul style="list-style-type: none"> ▶ N/A



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
MUNICIPALITIES REPRESENTATIVES CLOSE TO PROJECT											
LAND SHARING AND USE											
N/A	▶ N/A										▶ N/A
WILDLIFE											
N/A	▶ N/A										▶ N/A
FISH AND FISH HABITAT											
Fish population	▶ Fish restocking once the project is completed		✓							✓	▶ Agnico Eagle will first have to complete the Impact Statement but is open to considering the suggestion.
COMMUNITY ENGAGEMENT											
Engagement activities with citizens	▶ Concern with how Agnico Eagle will reach out to citizens considering the pandemic situation	✓			✓						▶ Agnico Eagle will communicate with municipalities to identify best ways to reach out to citizens considering the pandemic situation.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
WATER MANAGEMENT											
Flooding issues	<ul style="list-style-type: none"> Water management and consideration of spring flooding around the Misema River 			✓		✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle confirmed to participants that the diverting of the water will be taken into consideration of the natural hydrologic conditions. As is within Agnico Eagle’s control, the water level will be maintained within the range of natural variation. Agnico Eagle has mentioned being open to meeting with the citizens living near the Misema River to discuss the historic water fluctuation on the Misema River.
	<ul style="list-style-type: none"> Include the absence of vegetation around the Misema River when calculations of water flow will be conducted and share the results 		✓				✓	✓			<ul style="list-style-type: none"> Agnico Eagle confirmed to participants that the absence of vegetation will be considered. Agnico Eagle will present the results of the studies once they are done.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Water quality	<ul style="list-style-type: none"> Water quality of the Misema River for protection of other water uses: fishing, farms, municipality intake, etc. 	✓				✓	✓	✓	✓	✓	<ul style="list-style-type: none"> All water discharged from the site will be treated as needed to ensure all applicable regulatory requirements are met. There will be water treatment plants for domestic sewage water, and for industrial sewage. These plants are designed to meet the effluent limits that are calculated based on the capacity of the receiver.
SOCIOECONOMIC IMPACTS											
Socioeconomic impacts	<ul style="list-style-type: none"> The number of employees currently working on the Upper Beaver project 	✓			✓						<ul style="list-style-type: none"> As of October 2021, there are 27 Agnico Eagle employees working at the exploration office in Dobie and around 90 people from contractors working on the Kirkland Lake Property.
	<ul style="list-style-type: none"> Maximization of job creation, local partnerships, and training for local workers 			✓	✓	✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle is commitment to maximizing positive outcomes for local communities as reasonable.



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Socioeconomic impacts (cont'd)	<ul style="list-style-type: none"> ▶ Importance of sharing Agnico Eagle’s project positive economic impacts in the area, including for local business, contractors and workers 		✓		✓	✓	✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle agrees on the importance of sharing those messages with the community. ▶ The project’s website is useful to do so.
	<ul style="list-style-type: none"> ▶ Topics like assumption of environmental legacies, job creation, local partnerships and skills development for local workers are also interesting aspects of the project that should be shared with the community 		✓		✓	✓	✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle confirms having a long-term vision for the project. ▶ Agnico Eagle is committed to responsible and sustainable development. ▶ Agnico Eagle is committed to implementing the environmental, social and governance practices of high international standards to which Agnico Eagle is a signatory.
NOISE AND VIBRATION											
N/A	▶ N/A										▶ N/A



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		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
ROAD SHARING AND TRAFFIC											
Road access	<ul style="list-style-type: none"> ▶ Interest in knowing if Agnico Eagle will adapt the existing Dobie Road or build a new one to access the mining site 	✓					✓	✓			<ul style="list-style-type: none"> ▶ There is no plan to modify or upgrade the Dobie Road as it is not planned to be used for the project. ▶ However, Agnico Eagle could assess the road restoration as a potential support for the community.
AIR QUALITY AND DUST											
N/A	▶ N/A										▶ N/A
CLOSURE PLAN AND LAND REHABILITATION											
Closure plan	<ul style="list-style-type: none"> ▶ The way the closure plan will be updated and guaranteed 	✓							✓	✓	<ul style="list-style-type: none"> ▶ Information has been shared for Advanced Exploration with stakeholders. ▶ Closure plan submission for the Production Phase is planned for 2023. ▶ Financial guarantee is mandatory. ▶ Agnico Eagle will continue to share information about the closure plan. ▶ Agnico Eagle is committed to keeping communities informed and showing transparency.



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CITIZENS AROUND PROJECT (PUBLIC INFORMATION SESSION)											
LAND SHARING AND USE											
Lake access	<ul style="list-style-type: none"> ▶ When is Agnico Eagle planning on moving the Beaverhouse lake boat launch 	✓			✓		✓	✓			<ul style="list-style-type: none"> ▶ The boat launch does not need to be moved until the Construction Phase for the mine. ▶ Agnico Eagle could potentially relocate the boat launch along the south shore of the lake. ▶ However, Agnico Eagle will hold a workshop to gather suggestions with local users. ▶ Agnico Eagle will assess the suggestions to confirm their feasibility and chose the practical option that would meet the needs of most users.
Tailing storage	<ul style="list-style-type: none"> ▶ Potential location of tailings ponds 	✓					✓	✓			<ul style="list-style-type: none"> ▶ Tailing storage will be on-site. ▶ Agnico Eagle is looking to have dry stacks (dry tailings) rather than ponds.
	<ul style="list-style-type: none"> ▶ Potential acid rock drainage 	✓					✓	✓			<ul style="list-style-type: none"> ▶ Current information showed low risk, but further assessment will be conducted during ongoing environmental and engineering studies.



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Project's footprint	▶ Planned location to process the ore	✓					✓	✓			▶ The ore will be processed on-site, as Agnico Eagle intends to build a processing plant (mill).
Energy sources	▶ Amount of power and energy required to operate the project and sources	✓					✓	✓			<ul style="list-style-type: none"> ▶ At full production, consumption will be around 30-35 megawatts (MW) per year. ▶ Discussions have begun with local suppliers and producers to make sure Agnico Eagle will have enough power. ▶ Full production will take time though, which means Agnico Eagle will only need around 5-10 MW per year for the mine development. ▶ Agnico Eagle intends to draw power from the regional electric grid.
WILDLIFE											
N/A	▶ N/A										▶ N/A
FISH AND FISH HABITAT											
Offsetting plan	▶ On-site intentions regarding offsetting	✓			✓		✓	✓	✓	✓	▶ The offsetting plan is not ready yet, but Agnico Eagle will look for local opportunities, pending regulatory requirements.



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COMMUNITY ENGAGEMENT											
Indigenous Nations	<ul style="list-style-type: none"> Engagement activities conducted with Indigenous Nations 	✓			✓	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> Agnico Eagle currently engages with five Indigenous Nations, initially identified by the provincial government.
Indigenous Knowledge Study	<ul style="list-style-type: none"> Process to include Indigenous and traditional knowledge studies into the project design 	✓			✓						<ul style="list-style-type: none"> Agnico Eagle already engaged with Indigenous Nations on this topic and will continue to do so. The proposed approach is intended to be collaborative to promote meaningful, respectful, and accurate inclusion of Indigenous knowledge in the Impact Statement.
Information sharing	<ul style="list-style-type: none"> Subscription to the Upper Beaver project communication list 	✓			✓	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> Agnico Eagle invited community members to subscribe to the Upper Beaver Gold project distribution list through the project’s website. This list allows stakeholders to be notified of the latest news and events regarding the project, such as upcoming consultation opportunities.



APPENDIX A: COMMUNITY INPUT AND OUTCOMES – STAKEHOLDERS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT	
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT		
												<ul style="list-style-type: none"> ▶ The presentation and the Meeting Report of the meeting have been published on the project’s website.
WATER MANAGEMENT												
Water levels	<ul style="list-style-type: none"> ▶ Possible impacts of the project in general on groundwater 	✓			✓		✓	✓				<ul style="list-style-type: none"> ▶ Current information shows there will not be significant impact on groundwater levels. ▶ Further assessment will be conducted. ▶ Measures will be taken to ensure the dewatering plan meets regulatory approval.
	<ul style="list-style-type: none"> ▶ Possible impacts of the Misema River water flow with the diversion 	✓			✓		✓	✓	✓			<ul style="list-style-type: none"> ▶ According to current hydrology information, the project should not affect local water levels.



APPENDIX A: COMMUNITY INPUT AND OUTCOMES – STAKEHOLDERS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
SOCIOECONOMIC IMPACTS											
Employment	<ul style="list-style-type: none"> ▶ Possibility of current Agnico Eagle’s employees to be transferred to the Upper Beaver Gold project 	✓					✓	✓			<ul style="list-style-type: none"> ▶ This is part of Agnico Eagle’s employee policies and practices, and will likely to be possible, especially for people living in the area.
Socioeconomic impacts	<ul style="list-style-type: none"> ▶ Examples of possible benefits for local First Nations, besides jobs 	✓					✓	✓			<ul style="list-style-type: none"> ▶ The Upper Beaver Gold project will generate new business opportunities for local suppliers and Indigenous partners. ▶ Agnico Eagle would like to participate in projects that benefit the communities. ▶ Environmental monitoring activities are being conducted in collaboration with Indigenous partners. ▶ Cultural awareness and training opportunities are also good examples of benefits.
NOISE AND VIBRATION											
N/A	<ul style="list-style-type: none"> ▶ N/A 										<ul style="list-style-type: none"> ▶ N/A



APPENDIX A: COMMUNITY INPUT AND OUTCOMES – STAKEHOLDERS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
ROAD SHARING AND TRAFFIC											
N/A	▶ N/A										▶ N/A
AIR QUALITY AND DUST											
N/A	▶ N/A										▶ N/A
CLOSURE PLAN AND LAND REHABILITATION											
N/A	▶ N/A										▶ N/A



APPENDIX B

COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

The information below presents the collected input as well as the outcomes of the engagement activities conducted by Agnico Eagle between September 2020 and September 2021. Responses provided and key issues have been distinguished by project phase, based on the information available to date. Distinction for potential impact per project components will be made within the Impact Statement study and engagement activities.

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
BEAVERHOUSE FIRST NATION											
LAND SHARING AND USE											
Access to boat launch	▶ Need to preserve access for boat launching on the west side of Beaverhouse Lake			✓		✓	✓	✓	✓	✓	▶ Agnico Eagle committed to maintaining access to Beaverhouse Lake.
Traditional trail	▶ Discuss traditional trails in the project area		✓			✓	✓				▶ Agnico Eagle will investigate this matter further and have discussion regarding its location.
Sites of interest	▶ Potential sensitive sites in the project footprint and in the project area			✓	✓	✓					<ul style="list-style-type: none"> ▶ Agnico Eagle has agreed to collaborate in the Indigenous Knowledge Study. ▶ Information will be considered in the Impact Statement. ▶ Agnico Eagle will be working in collaboration with Indigenous Nations in developing mitigation measures.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Sites of interest (cont'd)	<ul style="list-style-type: none"> Concerns of cultural, heritage and traditional sites near York Lake, Ava Lake, and existing mine 			✓		✓	✓	✓	✓	✓	<ul style="list-style-type: none"> Agnico Eagle will be working in collaboration with Indigenous Nations to develop mitigation measures.
Cottages	<ul style="list-style-type: none"> BHFN has not received information regarding the acquisition of cottages in the area 			✓		✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle will share further information with BHFN.
Beaverhouse Lake access	<ul style="list-style-type: none"> Establish a new exit that would shorten the time to access the frozen part of Beaverhouse Lake 		✓				✓	✓			<ul style="list-style-type: none"> Agnico Eagle will investigate this matter further.
	<ul style="list-style-type: none"> Maintain access to Beaverhouse Lake 			✓	✓	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> Some areas at the mine would need to be restricted for safety purposes, but access to Beaverhouse Lake will remain.
Project's design	<ul style="list-style-type: none"> The preferred project scenario involving the dewatering / diversion of York Lake 			✓	✓	✓					<ul style="list-style-type: none"> Agnico Eagle has provided the community with further details on the preferred project scenario during a community meeting. Agnico Eagle is willing to provide further information if needed.
	<ul style="list-style-type: none"> Request for further information to better understand the rationale for the preferred project scenario 		✓		✓	✓					





APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT	
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT		
WILDLIFE												
Moose	▶ Interest in reviewing the aerial moose survey report		✓		✓							▶ Agnico Eagle will share results of the moose survey with Indigenous Nations.
Hunting	▶ Request to maintain access to the area for hunting			✓		✓	✓	✓	✓	✓		▶ Agnico Eagle will be working in collaboration with Indigenous Nations to develop mitigation measures. ▶ Agnico Eagle will be working with Indigenous Nations to discuss any imposed hunting limitations or restrictions on BHFN traditional land.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
FISH AND FISH HABITAT											
Fish habitat	<ul style="list-style-type: none"> Potential impacts on spawning beds, close to the boat launch of the Beaverhouse Lake 			✓		✓					<ul style="list-style-type: none"> There is no plan for development in this area. No other impacts are expected.
	<ul style="list-style-type: none"> Consider information from community members on the impacts to fish habitat 		✓			✓					<ul style="list-style-type: none"> Agnico Eagle would like to collaborate with local Indigenous Nations to collect information in support of the Impact Statement process. Agnico Eagle agrees on the importance of fish habitat.
	<ul style="list-style-type: none"> Potential impacts to traditional fishing practices in the area 			✓			✓	✓	✓	✓	<ul style="list-style-type: none"> Agnico Eagle will work with BHFN to ensure traditional fishing practices are protected within its control, and to develop mitigation measures.
Fish Health	<ul style="list-style-type: none"> Current presence of parasite on some fish and fish health condition 	✓			✓						<ul style="list-style-type: none"> Agnico Eagle’s consultant answered the question by explaining that it is common to observe parasites, such as black spots, especially on perch. A metal analysis will also be conducted with the fish contaminant sampling program.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
COMMUNITY ENGAGEMENT											
Engagement activities with community members	<ul style="list-style-type: none"> ▶ How Agnico Eagle will reach out to community members considering the pandemic situation 	✓			✓						<ul style="list-style-type: none"> ▶ Agnico Eagle will keep open lines of communication with local Indigenous Nations to identify community specific ways to reach out to their community members considering the pandemic situation. ▶ Engagement activity was held with BHFN community members and was prepared with BHFN representatives' collaboration with consideration of the pandemic situation.
Baseline studies and Impact Statement process	<ul style="list-style-type: none"> ▶ Interest in better understanding the sequence of activities and opportunities for the community to benefit from actively participating in the process 		✓		✓	✓					<ul style="list-style-type: none"> ▶ Agnico Eagle will keep supporting the community to further their understanding of the Impact Assessment Process. ▶ Agnico Eagle will continue to make efforts to adjust to the capacity of Indigenous Nations to the extent reasonable. ▶ Agnico Eagle shared a summary Booklet on the baseline work to make it easier to understand.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
WATER MANAGEMENT											
Water quality	▶ Potential impacts on water quality and current information from water quality monitoring			✓		✓	✓	✓			▶ Agnico Eagle held a meeting with BHFN's community members regarding water management, water quality and monitoring practices.
	▶ Potential impact on two nameless lakes located upstream of the project			✓		✓	✓	✓	✓		▶ Need to confirm the exact location of the referred lake. Looks that these lakes are located two or three kilometres upstream of the project and should then not be impacted.
	▶ Analyze the water quality of these two nameless lakes		✓			✓	✓	✓	✓		▶ Agnico Eagle offers to take samples of the water to analyze the water quality of the two nameless lakes upstream of the project once their location is confirmed.
Changes to waterbodies	▶ Dewatering of York Lake and diversion of Misema River			✓			✓	✓			▶ Agnico Eagle will work with BHFN to ensure traditional fishing practices are protected within its control, and to develop mitigation measures.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
SOCIOECONOMIC IMPACT											
Racism	<ul style="list-style-type: none"> Cultural awareness training is required for all employees and should be provided annually 		✓			✓	✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle is committed to developing cultural awareness training with Indigenous Nations. ▶ Agnico Eagle will provide the cultural awareness training to all new employees in a reasonable delay and refresh learned knowledge on a regular basis.
NOISE AND VIBRATION											
N/A	N/A										N/A
AIR QUALITY AND DUST											
N/A	N/A										N/A
CLOSURE PLAN AND LAND REHABILITATION											
Rehabilitation	<ul style="list-style-type: none"> The progressive rehabilitation process 	✓						✓	✓	✓	<ul style="list-style-type: none"> ▶ Agnico Eagle will involve local Indigenous Nations at different stages of the closure planning process.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Rehabilitation (cont'd)	▶ Cleaning the old remains of the former mine (1912-1971)	✓							✓	✓	▶ Agnico Eagle is responsible of the reclamation work associate to historic mining legacies on the Upper Beaver Property.
	▶ Presence of contaminants in tailings used for the paste backfill	✓							✓	✓	▶ Agnico Eagle explained that tailing in solid form have less impact on groundwater than slurry tailings. ▶ More tests will be done on paste backfill material to confirm there will be no impact. ▶ Recent tests done on another site showed that the paste backfill reduce the risk of acid generation when the tailing have that potential.
ROAD SHARING AND TRAFFIC											
N/A	N/A										N/A



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
MATACHEWAN FIRST NATION											
LAND SHARING AND USE											
Footprint	<ul style="list-style-type: none"> The size of a “small” open pit 	✓					✓	✓			<ul style="list-style-type: none"> Required information has been shared with the community. The expected size should be around 300 metres, which is similar to the size of the McBean Pit located in Dobie. Size of the pit is limited to this area due to stability issues and to constrain the project footprint.
Potential aggregate pit on Crown land	<ul style="list-style-type: none"> The possibility of using a second aggregate pit, considering there is already adequate material at two existing locations close to the project 			✓	✓	✓	✓				<ul style="list-style-type: none"> Agnico Eagle will take into account these concerns during the assessment of alternatives. Agnico Eagle will share justification if a new aggregate pit is selected as the preferred alternative. Agnico Eagle confirmed that access to Crown land would remain during the test pit activities.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT	
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT		
Cottages	▶ Which cottages have been acquired by Agnico Eagle so that the community can evaluate the potential impacts from their perspective	✓			✓	✓						▶ Agnico Eagle shared information with the community.
WILDLIFE												
Moose	▶ Interest in reviewing the aerial moose survey report		✓		✓							▶ Agnico Eagle will share results of the moose survey with Indigenous Nations.
FISH AND FISH HABITAT												
N/A	N/A											N/A
COMMUNITY ENGAGEMENT												
Engagement activities with community members	▶ How Agnico Eagle will reach out to community members considering the pandemic situation	✓			✓							▶ Agnico Eagle will get in touch with local Indigenous Nations to identify community specific ways to reach out to their community members considering the pandemic situation.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT	
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT		
Baseline studies and Impact Statement process	▶ Interest in participating in the country foods baseline study		✓		✓							<ul style="list-style-type: none"> ▶ Agnico Eagle is glad the suggested collaborative approach is well received. ▶ Agnico Eagle encouraged Indigenous Nations to identify their interest in participating in the baseline studies as soon as possible. ▶ Agnico Eagle aims to make participation inclusive; however, the COVID-19 pandemic may result in some limitations.
	▶ Agnico Eagle having to work with five Indigenous Nations and the challenges it could bring for collaborative activities such as the baseline studies			✓	✓							
WATER MANAGEMENT												
Surface water monitoring	▶ How 2020 and 2021 water quality results compare	✓			✓							<ul style="list-style-type: none"> ▶ Agnico Eagle will prepare and provide a summary with year-over-year comparison. ▶ Agnico Eagle identified that since acquiring the property, local water quality has been assessed and there has been no indication of chemical leaching into neighbouring waterbodies.





APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
SOCIOECONOMIC IMPACT											
Business opportunities	▶ Interest in business opportunities related to drilling and test pits		✓		✓	✓					▶ Agnico Eagle will keep sharing the information regarding the upcoming contract opportunities.
NOISE AND VIBRATION											
N/A	N/A										N/A
AIR QUALITY AND DUST											
N/A	N/A										N/A
CLOSURE PLAN AND LAND REHABILITATION											
N/A	N/A										N/A
ROAD SHARING AND TRAFFIC											
N/A	N/A										N/A



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
MÉTIS NATION OF ONTARIO											
LAND SHARING AND USE											
Footprint	▶ Footprint during the Production Phase	✓						✓			▶ Agnico Eagle shared information with the participant. ▶ Agnico Eagle aims to minimize its footprint as much as possible.
Exploration for Potential aggregate pit on Crown land	▶ Accessibility to Crown land during the planned test pits			✓	✓						▶ Agnico Eagle confirmed that the access to Crown land was not to be disturbed during test pit activities.
WILDLIFE											
N/A	N/A										N/A
FISH AND FISH HABITAT											
N/A	N/A										N/A
COMMUNITY ENGAGEMENT											
Baseline studies and Impact Statement process	▶ Funding for consultation activities since federal funding can only be granted after the IPD is ruled admissible by the Agency			✓	✓						▶ Agnico Eagle understands the funding capacity challenges and is interested in working with each Indigenous Nation to determine a mutually agreeable solution to support meaningful engagement.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT	
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT		
Baseline studies and Impact Statement process (cont'd)	<ul style="list-style-type: none"> Interest in developing a Consultation Agreement / Protocols 		✓		✓							<ul style="list-style-type: none"> Agnico Eagle is open to this approach and willing to have discussions to determine a mutually agreeable path forward that supports meaningful engagement and participation.
WATER MANAGEMENT												
Surface water monitoring	<ul style="list-style-type: none"> Potential arsenic contamination of waterbodies due to bulk sampling and rock storage 			✓		✓						<ul style="list-style-type: none"> Low risk of arsenic occurrence is expected in waterbodies based on water and rock analysis.
	<ul style="list-style-type: none"> Agnico Eagle's responsibility in case of impacts caused by previous mining activities such as chemical leaching into neighbouring waterbodies 	✓				✓						<ul style="list-style-type: none"> Agnico Eagle confirmed its responsibility for any potential impacts from previous mining activities.
SOCIOECONOMIC IMPACT												
N/A	N/A											N/A
NOISE AND VIBRATION												
N/A	N/A											N/A
AIR QUALITY AND DUST												
N/A	N/A											N/A
CLOSURE PLAN AND LAND REHABILITATION												
N/A	N/A											N/A
ROAD SHARING AND TRAFFIC												
N/A	N/A											N/A



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
TIMISKAMING FIRST NATION											
LAND SHARING AND USE											
Cumulative impacts	▶ How will cumulative impacts be addressed in the Impact Assessment, considering that several sites have mining potential in the area			✓	✓	✓					▶ Agnico Eagle plans to assess cumulative effects in the Impact Statement.
Project's footprint	▶ The necessity to build a new mill	✓					✓	✓			▶ Agnico Eagle has assessed several options for processing the ore. However: <ul style="list-style-type: none"> ◆ Existing mills do not have the capacity to handle the proposed production rates. ◆ Existing mills are located too far away. ◆ Existing mills may not be capable of processing the ore from the Upper Beaver Gold project, as deposits have unique characteristics and require specific processing methods. ▶ Underground mining operations intend to reuse tailings as part of paste backfill management, which requires the materials to remain on-site.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
WILDLIFE											
Moose	<ul style="list-style-type: none"> ▶ Interest in reviewing the aerial moose survey report 		✓		✓						<ul style="list-style-type: none"> ▶ Agnico Eagle will share results of the moose survey with Indigenous Nations.
FISH AND FISH HABITAT											
Fish habitat	<ul style="list-style-type: none"> ▶ Potential effect on habitat regarding the draining of the lake ▶ Impact on fish habitat and mitigation measure 	✓				✓					<ul style="list-style-type: none"> ▶ Agnico Eagle would like to collaborate with local Indigenous Nations to collect information in support of the Impact Statement process. ▶ Agnico Eagle agrees on the importance of fish habitat.
COMMUNITY ENGAGEMENT											
Baseline studies and Impact Statement process	<ul style="list-style-type: none"> ▶ Agnico Eagle having to work with five Indigenous Nations and the challenges it could bring for collaborative activities such as the baseline studies 			✓	✓						<ul style="list-style-type: none"> ▶ Agnico Eagle is glad the suggested collaborative approach is well received. ▶ Agnico Eagle encouraged Indigenous Nations to identify their interest in participating in the baseline studies as soon as possible. ▶ Agnico Eagle aims to make participation inclusive; however, the COVID-19 pandemic may place some limitations.





APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Baseline studies and Impact Statement process (cont'd)	<ul style="list-style-type: none"> Concern regarding funding for consultation activities since federal funding can only be granted after the IPD is ruled admissible by the Agency 			✓	✓						<ul style="list-style-type: none"> Agnico Eagle understands the funding capacity challenge and is interested in working with each Indigenous Nation to determine a mutually agreeable solution to support meaningful engagement.
	<ul style="list-style-type: none"> Interest in developing Consultation Agreement / Protocols 		✓		✓						<ul style="list-style-type: none"> Agnico Eagle is open to this approach and willing to have discussions to determine a mutually agreeable path forward that supports meaningful engagement and participation.
Indigenous Knowledge (IK) study	<ul style="list-style-type: none"> The Indigenous Knowledge study approach, whether it will respect Indigenous values and be conducted in an acceptable manner for community members 			✓	✓						<ul style="list-style-type: none"> Agnico Eagle recognizes the importance and sensitive nature of Indigenous Knowledge studies. The proposed approach is intended to be collaborative to promote meaningful, respectful, and accurate inclusion of knowledge in the Impact Statement.
	<ul style="list-style-type: none"> Agnico Eagle's accountability towards external partners' approach and the accuracy of the data 			✓	✓						<ul style="list-style-type: none"> Agnico Eagle supports the preference of Indigenous Nations to undertake these studies directly and/or through the support of their own consultants and will consider funding proposals. Agnico Eagle proposes to work with each Indigenous Nation regarding an



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
Indigenous Knowledge (IK) study (cont'd)	▶ The kind of funding Indigenous Nations could receive, including funding before the beginning of the Impact Assessment	✓			✓						<p>approach to ethically and respectfully understand and use their shared information, including approaches to weaving together Indigenous Knowledge and Western science, validation, and data use.</p> <p>▶ Agnico Eagle has entrusted a consulting firm to support them in the collaboration approach but remains accountable.</p>
	▶ The importance of developing a framework for knowledge weaving within the Indigenous Knowledge study and the challenges it can represent			✓	✓						
WATER MANAGEMENT											
Changes to waterbodies	▶ The need to pump the lake to maintain its drained state			✓			✓	✓	✓		<p>▶ Diversion channels will be established to divert the water from Ava Lake to the Misema River.</p> <p>▶ The preliminary strategy is to install properly designed dykes to make sure that the York Lake area remains dry for mining to safely occur.</p> <p>▶ Agnico Eagle would like to reflood the pit after closure of the mine to create a bigger lake.</p>
	▶ The need to receive more details on the diversion of the Misema River			✓	✓						





APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
SOCIOECONOMIC IMPACT											
Training opportunities	<ul style="list-style-type: none"> Whether the community members getting training would be ready when the job opportunities come up 			✓				✓			<ul style="list-style-type: none"> Agnico Eagle is confident communities will have enough time. As a first step, communities have been requested to identify community needs and priorities.
Racism	<ul style="list-style-type: none"> Social impacts, such as difficulties faced when applying for jobs in mines and experiencing racism from other employees 			✓				✓			<ul style="list-style-type: none"> Agnico Eagle confirmed this aspect could be a key point in the socioeconomic and health (well-being) studies, and that the project is required to complete a Gender-Based Analysis Plus (GBA+) as part of the Impact Statement. Agnico Eagle has an Indigenous Peoples Engagement Policy as well as a Diversity and Inclusion Policy. Agnico Eagle has provided cultural awareness training to some employees and actively seeks opportunities for continual improvement.
	<ul style="list-style-type: none"> Racism aspect should be considered in the social baseline study 		✓		✓					✓	
	<ul style="list-style-type: none"> Having Upper Beaver's employees trained on cultural and gender awareness 		✓					✓			
NOISE AND VIBRATION											
N/A	N/A										N/A



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT	
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT		
AIR QUALITY AND DUST												
Parameters to be assessed	▶ Interest about air quality parameters and the assessment of the impact on wildlife	✓			✓							<ul style="list-style-type: none"> ▶ Agnico Eagle, as part of the engagement plan, will consider comments received from Indigenous Nations. ▶ Agnico Eagle will aim to understand the comments received, consider how the feedback can be considered in the project planning and share back how the feedback was considered as well as what changes were made to the project in response to the feedback, where applicable. Where feedback cannot be included, reasoning will be provided.
	▶ The possibility to go beyond legal standards if the community shares concerns on certain impacts, such as air quality	✓					✓	✓				
CLOSURE PLAN AND LAND REHABILITATION												
N/A	N/A											N/A
ROAD SHARING AND TRAFFIC												
N/A	N/A											N/A



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
WAHGOSHIG FIRST NATION											
LAND SHARING AND USE											
Project's design	<ul style="list-style-type: none"> Request for further information to better understand the rationale for the preferred project scenario 		✓								<ul style="list-style-type: none"> Agnico Eagle will provide the community with further details on the preferred project scenario.
Sensitive sites mapping	<ul style="list-style-type: none"> Specific details and locations of sensitive cultural sites would not be shared with Agnico Eagle but buffer zones (polygons) will be identified to support assessment. 			✓			✓	✓			<ul style="list-style-type: none"> Agnico Eagle supports the protection of information regarding sensitive cultural sites and can use buffered areas to support the assessment.
Indigenous Knowledge and Land Use	<ul style="list-style-type: none"> Maintain and respect the confidentiality of Indigenous Knowledge and Land Use information (cultural sites) and work with WFN to prepare information pertaining to WFN 			✓		✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle will work with Indigenous Nations to develop Indigenous Knowledge studies and will validate how information is interpreted and used in the Impact Statement.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT	
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT		
WILDLIFE												
Participation in studies	▶ Interest in methodology and participation in wildlife studies related to moose		✓			✓						▶ Agnico Eagle is involving Indigenous Nations and encourage participation in field studies, where possible.
Wildlife	▶ Consideration of wildlife in the Upper Beaver Gold project’s potential mitigation measure											▶ Agnico Eagle will not permit hunting within the property boundaries and the speed limit on Beaverhouse Road will be set by considering wildlife and health safety (within its control). ▶ Wildlife collisions and near misses will be documented / reported. ▶ Wildlife will be fully considered during preparation of the Impact Statement, after which mitigation measures and protection and effects monitoring plan when required, will be discussed with Indigenous Nations. ▶ Agnico Eagle encourages participants to share any specific information regarding local wildlife to consider it within the baseline studies.
Wildlife (cont’d)				✓	✓	✓	✓	✓				



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
											<ul style="list-style-type: none"> ▶ Agnico Eagle is adhering to the principles of Towards Sustainable Mining which includes a Biodiversity Conservation Management protocol.
Moose	<ul style="list-style-type: none"> ▶ Activities associated with the project are likely to impact local moose populations 			✓		✓	✓	✓			<ul style="list-style-type: none"> ▶ Agnico Eagle will not permit hunting within the property boundaries and the speed limit on Beaverhouse Road will be set by considering wildlife and health safety (within its control). ▶ Wildlife collisions and near misses will be documented / reported. ▶ Agnico Eagle will develop a Moose Protection and Effects Monitoring Plan during the Impact Statement for implementation during the construction and operation phases. ▶ Agnico Eagle will similarly develop and implement a Biodiversity Conservation Management Protocol. ▶ Agnico Eagle will record observations of moose during advanced exploration, construction and operation phases.





APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
FISH AND FISH HABITAT											
Participation in studies	<ul style="list-style-type: none"> Interest in methodology and participation in wildlife studies related to fish 		✓			✓					<ul style="list-style-type: none"> Agnico Eagle is involving Indigenous Nations and encourage participation in field studies, where possible.
COMMUNITY ENGAGEMENT											
Engagement	<ul style="list-style-type: none"> Collaboration in engagement planning including maintaining meeting notes, challenges related to communication by email and need for information in French 			✓		✓	✓	✓	✓		<ul style="list-style-type: none"> Agnico Eagle will work in close collaboration with Indigenous Nations on engagement planning. Even if most information is in English, Agnico Eagle will evaluate the possibility to translate key documents in French.
	<ul style="list-style-type: none"> Need to be involved in the assessment of alternative means to the project 			✓		✓					<ul style="list-style-type: none"> Agnico Eagle will engage with Indigenous Nations regarding the assessment of alternatives.
Funding	<ul style="list-style-type: none"> Discuss funding for technical support 	✓				✓					<ul style="list-style-type: none"> Agnico Eagle will engage with Indigenous Nations regarding funding for technical support through the Impact Statement.



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
WATER MANAGEMENT											
Mercury	<ul style="list-style-type: none"> Changes in mercury concentration in the receiver due to project activities, as well as mine effluent and the way it is going to be monitored 			✓		✓	✓	✓			<ul style="list-style-type: none"> Agnico Eagle identified that it is not expected that mercury will be released in concentrations that exceed the Provincial Water Quality Objectives (PWQO) for protection of aquatic life criteria. Effluent water quality samples will be collected on a weekly basis. Agnico Eagle will use an adequate detection limit. Agnico Eagle will validate if the modelling prediction is correct, and if not, additional mitigation measures may have to be implemented.
SOCIOECONOMIC IMPACT											
N/A	N/A										N/A
NOISE AND VIBRATION											
N/A	N/A										N/A
AIR QUALITY AND DUST											
N/A	N/A										N/A



APPENDIX B: COMMUNITY INPUT AND OUTCOMES – INDIGENOUS NATIONS

TOPICS	KEY ISSUES	NATURE OF INTERVENTION			MINING PHASE						RESULTS OF ENGAGEMENT
		QUESTION	SUGGESTION	CONCERN	EXPLORATION / ASSESSMENT	ADVANCED EXPLORATION	CONSTRUCTION	OPERATION	DECOMMISSIONING	ABANDONMENT	
CLOSURE PLAN AND LAND REHABILITATION											
N/A	N/A										N/A
ROAD SHARING AND TRAFFIC											
N/A	N/A										N/A



APPENDIX C
RESPONSE TO SUMMARY OF ISSUES



APPENDIX C: RESPONSE TO SUMMARY OF ISSUES

#	COMMENT	RESPONSE
ACCIDENTS AND MALFUNCTIONS		
1	Need for information on how the Proponent will prevent accidents and malfunctions associated with construction and operation of project components in light of the existing historic mine infrastructure	<p>Agnico Eagle Mines (Agnico Eagle) is committed to maintaining the highest health and safety standards possible. Agnico Eagle’s long-term goal is to strengthen health and safety culture through individual accountability and leadership, accompanied by aspirational zero harm safety targets and leading performance indicators. Agnico Eagle considers safety of people and the environment at the Upper Beaver site a priority. The proposed open pit mine will provide economic benefits, but will also mitigate known hazards related to the stability of historic underground workings, as well as removal of the historic mining legacies, such as tailings currently adjacent and within York Lake (see Section C.3.4 of the Detailed Project Description; DPD). The placement of proposed infrastructure (such as the processing plant and tailings storage facility) fully consider the location and stability of underground workings. Agnico Eagle will continue to assess the ongoing hazards and potential for accidents and malfunctions related to the historic at the site during future activities.</p> <p>Should an Impact Assessment (IA) be required Agnico Eagle will fully consider and will document the proposed management of accidents and malfunctions associated with the historic mining operations at the site in the Impact Statement (IS).</p>
2	Potential effects—including effects on human health and to surface water —of accidents or malfunctions—including spills of hazardous substances or uncontrolled release of pollutants to the environment from transportation of hazardous materials, and failures of project components including the open pit, tailings storage facility, pond liners, and dams—and potential for residual effects following an accident or malfunction	<p>Agnico Eagle believe that there will be limited potential for accidents or malfunctions related to the Upper Beaver Gold project with the proposed robust project design that is protective of the environment, along with appropriate design and monitoring safeguards, and practical environmental management practices (see Section F.7 of the DPD). This is one of the reasons Agnico Eagle is considering a filtered tailings stack that does not include / require ponding of effluent rather than a conventional tailings facility, significantly reducing the risk related to water management.</p> <p>Should an IA be required Agnico Eagle will identify and document the management of potential accidents and malfunctions that are applicable to the project in the IS.</p>
3	Need for information on emergency response plans and procedures based on potential accidents and malfunctions	<p>Being prepared to respond to all forms of emergencies remains a key element of the Agnico Eagle health and safety program. Each of our mining operations has its own Emergency Response Plan and has appropriately trained personnel.</p> <p>Agnico Eagle will establish appropriate, practical emergency response plans and procedures for the Project prior to construction, that meet Corporate requirements,</p>



APPENDIX C: RESPONSE TO SUMMARY OF ISSUES

#	COMMENT	RESPONSE
		<p>as well as any regulatory needs. Development of appropriate environmental management plans are one of the anticipated mitigation measures that will be discussed in the IS for malfunctions and accidents, if an IA is required.</p> <p>Environmental and health and safety impacts are managed through our Risk Management and Monitoring System. Activities that can have environmental impacts are identified and assessed. Relevant control measures are implemented, maintained and verified. Emergency response plans are developed and tested. Every mine and exploration project reports environmental incidents into our internal online database and tracking system. Each operation has a dedicated environmental department that ensures environmental impacts and incidents are managed according to the approved and applicable procedure.</p>
4	Need for information about plans for communication with local residents in cases of accidents and malfunctions, including translation into local Indigenous languages	As part of the management plan a protocol from communications will be established with local residents and local Indigenous Nations. If appropriate in discussion with the individual Indigenous Nations, Agnico Eagle may prepare plain language summaries of these plans, including translation in Indigenous languages if requested.
ACOUSTIC ENVIRONMENT		
5	Potential effects from increased noise levels during all phases of the Project on human health and recreational activity	<p>It is recognized that despite meeting all regulatory requirements including the applicable Provincial noise guidelines associated with Part II.1 of the <i>Environmental Protection Act</i>, the construction, operation and closure of an industrial facility will change the local acoustic environment (see Tables F.2 and F.3 of the DPD). The Health Canada (2019): <i>Guidance for Human Health Impact Assessment in Environmental Assessments</i> will be fully considered and assessed as appropriate in the IS, if an IA is required.</p> <p>The potential for generation and propagation of noise will be fully considered in the final Project design. Modelling will be completed to assess the effects and practical noise mitigation measures will be utilized to limit the potential effect on human receptors and their periodic recreational activities in the area. It is expected that the sound levels will be reduced after the first few years of construction / operation when the Project is only mining from underground.</p>



APPENDIX C: RESPONSE TO SUMMARY OF ISSUES

#	COMMENT	RESPONSE
6	Need for further information on noise effects, identification of human receptors, proposed noise mitigation measures and monitoring and follow-up measures	Agnico Eagle has identified a number of potential human receptors in the Initial Project Description (IPD; Figure C.2: Land Tenure and Land Use) and the DPD (Figure D.2). Modelling will be completed to assess the effects on identified human receptors in the area based on occupancy and land ownership. The modelling will be informed in part, by the noise baseline field investigations completed during 2021. Based on the preliminary modelling results, the Project design and activities will be modified to ensure that the Provincial requirements are met. Noise will be monitored during construction and operation if warranted.
ALTERNATIVE MEANS		
7	Need for an analysis of alternative means for carrying out the Project that considers alternatives to the proposed operation schedule and alternatives to mineral extraction options that considers stability concerns related to bedrock competence and historical mine workings. The alternatives analysis must also consider adverse and positive effects to the local social and economic conditions	As indicated in the IPD, a portion of the ore body proposed for underground mining that is key to the economic viability of the Upper Beaver Gold project is located at relatively shallow depth near York Lake. As a result of this assessment of rock stability associated with the historic underground works and pre-existing natural conditions, Agnico Eagle determined through expert studies that a combination of open pit and underground mining was required (see DPD Section C.3.4). This would mitigate short and/or long term instability concerns, and would provide the opportunity to rehabilitate the historic tailings and mine rock located in and beside York Lake. Further detail regarding alternative means of meeting the purpose of the Project will be provided in the IS, if an IA is determined to be required.
8	Need for an analysis of alternative means for carrying out the Project that considers carrying out the Project without draining York Lake and diverting the Misema River	Based on expert studies completed during 2020, Agnico Eagle has not identified any feasible alternative means of carrying out the Project that meet the purpose of the Project (see DPD Section C.3.4). Nonetheless, further detail regarding alternative means of meeting the purpose of the Project will be provided in the IS, if an IA is determined to be required (see DPD Section C.6).
9	Need for an analysis of alternative means for carrying out the Project that considers alternative methods and locations of tailings storage, and associated effects of alternatives to groundwater quality due to acid rock drainage and metal leaching	As identified in the IPD technically and economically feasible alternative means will be considered during future regulatory documentation, including potentially the following tailings storage methods (dry stack facility or conventional slurry facility, co-deposition, re-use as backfill underground) and locations (see DPD Section C.6). Preliminary geochemistry results related to the advanced exploration program indicate that there is overall an abundance of neutralization potential, and acid rock drainage and metal leaching is not of concern (see DPD Section D.7.2). Geochemical investigations and laboratory testing for the mining phase are ongoing and will



APPENDIX C: RESPONSE TO SUMMARY OF ISSUES

#	COMMENT	RESPONSE
		<p>presented in the IS, if an IA required. Should the results determine that mitigation measures are required for potential effects related to acid rock drainage and metal leaching, these measures will be described in the IS, including assessment of alternative means as applicable (such as tailings deposition methods).</p>
10	<p>Need for further information on the process for planning the proposed road network, including how the Proponent considered cultural and environmental valued components in planning</p>	<p>The road network shown in the preliminary site plan in the IPD (Figure B.1: Preliminary Site Plan) was selected to minimize new disturbance to the natural environment, and avoidance of known archaeological sites and water crossings.</p> <p>The site plan has been revised in the DPD (Figure C.1), and is expected to be updated further in the IS, if an IA is required. Ongoing Project design will consider all known cultural values, including any items shared with Agnico Eagle by local Indigenous Nations.</p>
11	<p>Potential effects of ore processing and mine effluent on fish and fish habitat associated with alternative means of carrying out the Project and a description of whether effects on fish and fish habitat were considered as a criterion in the alternatives selection</p>	<p>Potential effects on fish and fish habitat were considered as a criterion in developing the preliminary site plan / selection of the preferred alternative, recognizing that the Project is not economic and will not proceed without the mining of the ore near historical underground mine workings situated at York Lake.</p> <p>It is acknowledged that the dewatering of the York Lake will have an effect on fish and fish habitat. Direct impacts to fish habitat include overprinting of waterbodies and construction of structures in waterbodies / watercourses. Anticipated indirect impacts to fish habitat may include flow reductions in some of the small unnamed tributaries immediately adjacent to site development.</p> <p>An approved fish habitat offset and compensation plan will be required and an alternative assessment for mineral waste disposal in the prescribed format will also be needed. These documents are anticipated to be developed in parallel with the IA if required, and potentially submitted in draft with the IS documentation. Agnico Eagle is committed to consulting local Indigenous Nations, stakeholders and communities on projects that can be proposed to the Agency for the compensation plan.</p>



APPENDIX C: RESPONSE TO SUMMARY OF ISSUES

#	COMMENT	RESPONSE
ATMOSPHERIC ENVIRONMENT		
12	Need for updated baseline studies for air quality, including measurements of nitrogen dioxide, sulphur dioxide, dust (total suspended particles), PM10, PM2.5, carbon monoxide, ozone, volatile organic compounds (VOCs), polycyclic organic compounds (PAHs), metals and other substances that may be released	<p>An air quality baseline investigation was initiated during 2021 at the Upper Beaver Gold project site, designed to supplement the existing dataset and regional published information while recognizing there is no grid power currently available at the site (see DPD Section D.7.1).</p> <p>The data will be summarized, and included in regulatory documentation as appropriate, including within the IS if an IA is required.</p>
13	Need for air quality dispersion modelling to conduct the effects assessment	The potential for generation of air emissions will be fully considered in the final project design and will be based in part on air dispersion modelling to be completed to support regulatory requirements. Modelling will be completed to assess the effects and develop practical air emission and dust mitigation measures. The modelling will be used to confirm that applicable Provincial air quality guidelines can be met per the <i>Environmental Protection Act</i> , during the construction, operation and closure of the mine.
14	Potential effects on air quality during all phases of the Project due to activities including exhaust emissions from diesel combustion, fugitive dust, and vehicular traffic	Agnico Eagle will assess potential for effects from the project during all mining phases, including from heavy equipment, dust and traffic as suggested. Further detail will be provided in the IS, if an IA is determined to be required.
15	Need for further information on proposed mitigation measures for effects on air quality and monitoring plans	Mitigation measures will be included in the project design and activities as needed based in part on the results of the air quality dispersion modelling, to make sure that all regulatory requirements are met. Further detail will be provided in the IS, if an IA is determined to be required.
16	Potential effects of light pollution from the Project. Need for further information on proposed mitigation measures and monitoring plans	Safe operation of an industrial facility will cause a localized light spill that is visible off site. Care will be taken to ensure lights are properly aimed to minimize offsite light disturbance. An ambient light baseline study is currently underway to document baseline characteristics (see DPD Section D.7.1). Further detail will be provided in the IS regarding potential effects and proposed mitigation measures, if an IA is determined to be required.



APPENDIX C: RESPONSE TO SUMMARY OF ISSUES

#	COMMENT	RESPONSE
CLIMATE CHANGE AND GREENHOUSE GAS EMISSIONS		
17	Need for further information on net greenhouse gas emissions for each separate phase of the Project (e.g. carbon footprint), including information on which greenhouse gases will be measured and reported publicly, and methodology used. Information provided should be aligned with the Government of Canada's Strategic Assessment on Climate Change (www.strategicassessmentclimatechange.ca)	Agnico Eagle recognizes the important role that industry plays in addressing climate change and is actively working on initiatives to help reduce our carbon footprint and mitigate climate change risks, while continuing to grow our operations. An assessment of potential greenhouse gas (GHG) emissions for each phase of the project will be conducted as part of the IS aligned with the Strategic Assessment on Climate Change, if an IA is determined to be required. The Upper Beaver Gold project has a relatively small GHG footprint compared to many industrial operations, including as a result of the decision to use grid power rather than diesel-fired generators for site power.
18	Need for further information on potential project effects on carbon sinks, such as nearby wetlands	<p>Terrestrial field programs completed in the past, including during 2021 will allow the development of mapping showing ecosystems that may be affected by the project. As the majority of the project is located in an upland area, there will be limited direct or indirect effects to wetlands. A new figure has been included in the DPD that shows a preliminary identification of local wetlands based on published information (Figure D.5).</p> <p>The majority of the site has been previously disturbed through past forestry, exploration or mining activities, or will be disturbed by the proposed advanced exploration program, but some areas to be affected remain a more natural condition. A compact site for the new mine will be developed to limit disturbance to new areas as reasonable. The site will be reclaimed including by revegetation after mining ends to support future productive habitat and support sequestration of carbon in soil by plants.</p>
19	Need for further information on the Project's impact to Canada's ability to meet its climate change target and environmental obligations	<p>As described in the IPD, the Upper Beaver Gold project will not have a material affect GHG generation in Canada. As with virtually all industrial operations, greenhouse gases will be emitted during all phases of the project (construction, operation and closure). The primary sources of greenhouse gas emissions from each project phase are expected to be:</p> <ul style="list-style-type: none"> • Construction: diesel combustion in mobile equipment; • Operation: diesel combustion in mobile equipment, blasting in the open pit and underground, processing or ore and indirect emissions from purchased grid power; • Closure: diesel combustion in mobile equipment ((see DPD Section F.5).



APPENDIX C: RESPONSE TO SUMMARY OF ISSUES

#	COMMENT	RESPONSE
		Agnico Eagle is reviewing technology / design alternatives that may reduce GHG emissions, such as use of electric equipment / vehicles. An assessment of potential GHG emissions will be completed for each phase of the project and will be compared to Canada's commitments re: GHG emissions.
CUMULATIVE EFFECTS		
20	Potential cumulative effects - due to current and historical mineral exploration activities, existing mine hazards, nearby forestry activities, downstream water control structures and hydroelectric developments - on wildlife, surface water and groundwater quality and quantity, fish and fish habitat, human health, and social conditions in the surrounding watershed and downstream of the Project	Agnico Eagle is purposefully developing the Upper Beaver Gold project (the mine), to expand and/or modify facilities that are being developed during the advanced exploration program in order to minimize environmental disturbance as practical. The <i>Impact Assessment Act</i> requires that cumulative effects be considered that are likely to result from the designated project in combination with other physical activities that have been or will be carried out. For the Upper Beaver Gold project, it is anticipated this would include cumulative effects associated with the exploration program and advanced exploration program at the site as the Upper Beaver Gold project is expected to have a small footprint, as well as a limited area of influence. Cumulative effects will be assessed in the Impact Statement in accordance with Impact Assessment Agency of Canada guidance, if an IA is required.
21	Potential cumulative effects on Indigenous groups including on their traditional territories and cultural land use practices such as hunting, fishing or traditional plant harvesting	Should an IA be required for the Upper Beaver Gold project, a cumulative effects assessment will be completed which include consideration of effects on Indigenous Nations. Agnico Eagle is actively seeking information regarding traditional territories and cultural land use practices from local Indigenous Nations, and this information will inform the IS, including the cumulative effects assessment.
22	Potential cumulative effects on the exercise of Aboriginal and/or treaty rights from the Project in combination with existing projects, such as other mining activities and forestry	A cumulative effects assessment will be completed which includes consideration of Aboriginal and/or treaty rights with respect to existing projects, should an IA be required for the Upper Beaver Gold project.
23	Need for further information on the area of influence that is being considered for the assessment of potential cumulative effects	The Upper Beaver Gold project has a small footprint and as a result of the need to meet all regulatory requirements a limited area of influence with respect to the natural and biological environment. Cumulative effects will be assessed in the Impact Statement in accordance with Impact Assessment Agency of Canada guidance, if an IA is required.



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#	COMMENT	RESPONSE
DECOMMISSIONING AND RECLAMATION		
24	Need for further information on plans for decommissioning and reclamation which include consideration of historical mine hazards located on site and information on disposal of solid wastes generated during decommissioning	<p>Progressive and final reclamation of the Upper Beaver Gold project site, including of historic mine hazards will be governed by the Ontario <i>Mining Act</i>, and its associated Regulations and Codes, and will be informed by ongoing engagement, including with Indigenous Nations. The Act requires that a Closure Plan be filed for mining project before construction, and that financial assurance be provided to ensure that sufficient funds are in place to carry out the decommissioning activities. Information regarding the historical mine hazards was provided in Tables B.1 and B.3 in the IPD; this information is repeated as Tables C.1 and C.3 of the DPD.</p> <p>A conceptual closure plan will be provided with the IS, should an IA be determined to be required. The IS will also consider alternatives the meet regulatory requirements for disposal of decommissioning solid wastes.</p>
EFFECTS OF THE ENVIRONMENT ON THE PROJECT		
25	Need for further study on the effects of, and resilience of, project infrastructure - including tailings storage facilities, waste management areas, site drainage and water diversion structures - to climate change	<p>The Upper Beaver Gold project has an expected life of approximately 14 years or more years of operation, plus construction, decommissioning and closure phases. The project does not include any long term water impoundments.</p> <p>Expected climatic conditions will be fully considered in the design of project facilities and infrastructure as applicable, including any potential changes from the current climate due to climate change based on accepted models. Should an IA be determined to be required, the effect of climate change on project facilities and infrastructure will be assessed and documented in the IS.</p>
26	Need for mitigation measures and characterization of residual effects related to the effects of the environment on the Project	Assuming that an IA is required, the IS will assess the effects of the environment on the Project, including climate changes, but also potentially including such aspects natural hazards.
FISH AND FISH HABITAT		
27	Need for baseline studies on fish and fish habitat, including biological indicator species, such as benthic invertebrate species, and further information on the baseline sampling program	Baseline aquatic investigations have been ongoing in the area since 2011, with a greater focus since 2018. The 2021 aquatic resources baseline studies were designed to fill potential gaps in the existing aquatic information from previous studies (see DPD Section D.7.5). Fish habitat characterization and fish community surveys within the Victoria River, as well as Beaverhouse Lake, Ava Lake, York Lake and the Misema River were completed during 2021. A lethal fish sampling program was also completed during the fall site visit to measure contaminants in fish tissue for lower trophic species (e.g., baitfish/forage fish) and upper trophic predatory species (e.g.,



APPENDIX C: RESPONSE TO SUMMARY OF ISSUES

#	COMMENT	RESPONSE
		<p>sportfish – walleye and northern pike). Sediment quality samples were collected to measure metals, nutrients and other baseline contaminants of potential concern, which were used to help interpret the benthic invertebrate community survey results collected during the program. Surface water quality samples were also collected at lake sample locations where discrete depth interval sampling occurred (near-surface, mid-column and near-bottom), as well as lower trophic level sampling including Chlorophyll-a and zooplankton community and biomass.</p>
28	<p>Need a full list of project components, including additional details about components to determine potential for effects to fish and fish habitat</p>	<p>The DPD provides a list of the project components as currently known (see DPD Table C.2), expanding on the details provided in Table B.2 of the IPD (Preliminary List of Mine Facilities and Comparison to Advanced Exploration Facilities).</p> <p>In addition, DPD Table F.2 (Preliminary Summary of Potential Environmental Effects) has expanded the original table in the IPD (Table E.2) to identify potential for effect to fish and fish habitat as a discrete environmental component, not linked to local waterbodies / watercourses.</p>
29	<p>Potential effects on fish and fish habitat - including fish spawning and aquatic invertebrates - due to project components and activities such as blasting, dewatering of York Lake, dams, water diversion structures, tailings storage facility, waste rock stockpiles, overburden stockpiles, and ore stockpiles</p>	<p>As indicated in the comment, there could be potential effects from the Upper Beaver Gold project related to project components and activities such as blasting, dewatering of York Lake, establishment of dykes to allow diversion of the Misema River, as well as the overprint of minor watercourses directly by mineral wastes. There may also be potential effects on fish and fish habitat from flow reductions in minor watercourses downstream of the overprinting.</p> <p>Further detail will be provided in the IS related to potential effects on fish and fish habitat, should an IA be required.</p>
30	<p>Potential effects on fish and fish habitat from changes to surface water and groundwater due to the Project, including from acid rock drainage and metal leaching</p>	<p>Preliminary geochemistry results related to the advanced exploration program indicate that there is overall an abundance of neutralization potential. Geochemical investigations and laboratory testing for the mining phase are ongoing (see DPD Section D.7.2) and will be presented in the IS, if an IA is required. Should the results determine that there could be potential effects related to fish and fish habitat, these will be described in the IS along with proposed mitigation measures.</p>
31	<p>Need for further information on whether any fish habitat is proposed to be established in the flooded open pit</p>	<p>The preliminary plan is to re-connect the re-filled open pit (pit lake) to the Misema River system on closure, which will increase the overall lake size for future uses (see DPD Section D.3.4). The viability of developing fish habitat in the pit lake will be considered as part of the fish habitat compensation and offsetting plan.</p>



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32	Need for further information on mitigation measures and monitoring plans, including a characterization of residual effects and the Proponent's plans for developing a fisheries offsetting plan under the <i>Fisheries Act, 2019</i>	<p>A plan for habitat compensation will be developed which will be consulted upon and approved through a rigorous federal process, and when implemented, will mitigate effects to aquatic resources including habitat loss such as at York Lake.</p> <p>Compensatory aquatic habitat, which will be consulted upon and approved through a rigorous federal process, will be provided to mitigate effects to aquatic resources, including habitat loss.</p>
GEOLOGY AND SOILS		
33	Need for baseline geochemical studies of waste rock, overburden, ore, tailings, construction rock, and pit walls	<p>In 2018, a geochemistry study was initiated to investigate the potential for metal leaching and acid rock drainage (ML/ARD) from representative mineral waste material that would be produced during the Advanced Exploration program, including 93 mine rock and 15 ore samples. All samples underwent acid base accounting and metals analysis, and a subset was submitted for shake flask extraction testing and mineralogical analysis. Four humidity cells were also initiated representing different sulphur contents of the two major lithologies, to provide a better understanding of the kinetic behaviour of sulphide oxidation and associated metal release rates.</p> <p>A Phase 2 geochemical program has been initiated to assess geochemistry aspects associated with the proposed mine. It includes:</p> <ul style="list-style-type: none"> • Sampling and analysis of additional mine rock and ore to meet spatial and lithological data gaps for the proposed underground mine; • Sampling of mine rock anticipated to be produced by the open pit; • Characterization of anticipated tailings from processing; and • Additional representative kinetic tests (see DPD Section D.7.2). <p>These data are anticipated to be available to support the effects assessment within the IS, if an IA is determined to be required.</p>



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34	Need for further information on plans for managing and rehabilitating historical contamination disturbed or overprinted due to the Project, including historical waste rock stockpiles and tailings storage areas, and standards to be achieved	There is no known historical contamination of the site, apart from the historic mine rock and tailings storage areas. As indicated in the IPD and DPD, these areas will be excavated as part of the open pit development (DPD Table C.1). These materials will be tested and an appropriate disposal / storage strategy developed. As the materials have been exposed to the environment for a long period of time, it is expected that the quality will be suitable for storage on site in surface stockpile(s) or underground. This information will be detailed in the Closure Plan required by the Ontario <i>Mining Act</i> , and described as appropriate to assess environmental effects within the IS, should an IA be required.
35	Need for further information on construction of trails and trenching, including effects due to erosion and the potential for effects on soil quality	There are no proposed construction of trails or trenching associated with the Upper Beaver Gold project. Should trails be constructed, such as to access environmental monitoring locations, appropriate measures will be taken to minimize potential for soil erosion.
FEDERAL LANDS		
36	Need for further information to validate the claim that there are no expected project changes to the environment on federal lands	There are no federal lands near the proposed project development area or in the local area surrounding the Upper Beaver Gold project property ((see DPD Section E.2). The closest federal lands are First Nation Reserve lands located more than 40 km north of the site, in a different watershed system.
HUMAN HEALTH AND WELL-BEING		
37	Concern about the release of air quality contaminants from mining operations, such as dust from the tailings and metals, and associated impacts on human health	The potential for generation air emissions will be fully considered in the final Project design and will be based in part on air dispersion modelling to be completed to support regulatory requirements. Modelling will be completed to assess the effects and develop practical air emission mitigation measures. The modelling will be used to confirm that applicable Provincial air quality guidelines can be met per the <i>Environmental Protection Act</i> , during the construction, operation and closure of the mine. If it is determined that an IA is required, an assessment will also be made of expected air emissions from the project on human health in the IS.
38	Need for further information on potential impacts on human health from exposure to air pollutants and increased noise levels – including identification of human receptors - and proposed mitigation measures and monitoring plans	Air and noise emissions will be required to meet the Ontario regulatory requirements, including at the property boundary / receptors as applicable. Mitigation measures, including project design elements and application of management practices may be required. Should an IA be required, potential effects



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		from air emissions and noise levels will be assessed in the IS. The IS will also include a description of proposed mitigation measures and if warranted, a preliminary approach to environmental monitoring.
39	Need information on potential electric and magnetic field impacts on human health due to proximity to transmission lines	A 115 kilovolt transmission line is proposed to support the Upper Beaver Gold project. The preliminary routing is through an undeveloped area and is not within kilometres of a human residence. To date, a large number of independent scientific bodies and International health agencies have been unable to establish from their research reviews that there is a health risk from exposure to electric and magnetic fields associated with transmission line. There are no potential electric and magnetic field impacts expected to human health due to proximity to transmission line for the Upper Beaver Gold project.
40	Need for further information on drinking water sources in the vicinity of the Project - including locations of potable water sources and groundwater wells for water consumption – and potential impacts to health	Based on published sources and discussions with local individuals, Agnico Eagle understands that bottled water is used for drinking water, or water is taken from surface water courses / waterbodies. The closest potable wells are believed to be located in Dobie, Ontario (Ministry of Environment, Conservation and Parks well records). A review of known sources of potable water near the Project footprint will be completed in order to assess potential for effects. If it is determined that an IA is required, an assessment will also be made with respect to human health in the IS.
41	Need for further information on potential impacts on human health from exposure to contaminated surface water, including proposed mitigation measures and monitoring plans	Surface water that comes into contact with site facilities will be collected, and treated if needed to ensure the quality is acceptable prior to discharge off site. Effluent discharges to the environment from the site will be required to meet regulatory requirements, which will fully consider the capacity of the receiver. There are no anticipated impacts to human health from exposure to contaminated surface water.
42	Potential adverse impacts on health and safety of local communities, due to an increased number of workers in the area	The Upper Beaver Gold project is located in historic mine district which has had an overall population decline according to available Census data. Over the past 35 years, the population has declined by more than one-third from 12,000 in 1986. The project is not expected to result in a large change in regional or local population but may contribute to modest growth in the base population within commuting distance from the site. If an IA is determined to be required, the IS will assess the potential for adverse impacts on health and safety of local communities due to increases in local project workforce.



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43	Need for further information on potential impacts on mental health and well-being from items such as changing behaviour patterns of food consumption, substance use, and physical activity	<p>The Upper Beaver Gold project is located in an area of long-standing development. Agnico Eagle does not believe the proposed mine development will result in changing behaviour patterns of food consumption, substance use, and/or physical activity.</p> <p>Agnico Eagle believes that the overall effect from the Upper Beaver Gold project to local communities and Indigenous Peoples can be positive, particularly with respect to economic conditions. Key initiatives to support this effect include the ability to participate in employment and business opportunities (for individuals, as well as Indigenous Nations). If an IA is determined to be required, the IS will assess the potential for these positive effects.</p> <p>Agnico Eagle intention is to maximize the hiring of local and regional workers. This commitment contributes generally to increase the level and the quality of life in communities where Agnico Eagle operates such as: increased household income, greater social cohesion and attachment to the communities and more services.</p>
44	Need for further information in the community health profile to include health outcomes from the social context section of the Initial Project Description	Additional information as available from published sources or shared with Agnico Eagle, will be provided in the IS to provide context for the assessment of effects, if an IA is required.
45	Need for further information on the project's effects to the linkages between social, economic and cultural conditions, and health conditions	If it is a determined that an IA is required, through engagement and research the linkages will be identified and potential effects between these linkages will be assessed.
46	<p>Need for the air quality, noise, drinking and recreational water quality, country foods and human health risk assessments be conducted in accordance with Health Canada's Guidance documents for evaluating human health impacts in environmental assessment:</p> <p>Air Quality (https://www.canada.ca/en/health-canada/services/publications/healthy-living/guidance-evaluating-human-health-impacts-air-quality.html)</p> <p>Noise (https://www.canada.ca/en/health-canada/services/publications/healthy-living/guidance-evaluating-human-health-impacts-noise.html)</p> <p>Drinking and Recreational Water Quality</p>	If it is determined that an IA is required, a human health and ecological risk assessment will be conducted in accordance with Health Canada guidance, and will be appended to the IS.



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	<p>(https://www.canada.ca/en/health-canada/services/publications/healthy-living/guidance-evaluating-human-health-impacts-water-quality.html) Country Food (https://www.canada.ca/en/health-canada/services/publications/healthy-living/guidance-evaluating-human-health-impacts-country-foods.html) Human Health Risk Assessment (https://www.canada.ca/en/health-canada/services/publications/healthy-living/guidance-evaluating-human-health-impacts-risk-assessment.html)</p>	
INADEQUATE DOCUMENTATION		
47	Need for further information about the Proponent, including how any recent partnership agreements may affect the Project	<p>Agnico Eagle Mines Limited and Kirkland Lake Gold Ltd. announced on September 28, 2021, that they have entered into an agreement to combine in a merger of equals, with the combined company to continue under the name “Agnico Eagle Mines Limited” (see DPD Section A.2). The merger will create unique opportunity to unlock significant operational and strategic synergies along the Abitibi / Kirkland corridor and to leverage sector-leading technical expertise. These opportunities include the consolidation of one of the largest gold mining camps in the world, enhanced engineering, procurement, logistics and warehousing capabilities, sharing of best practices, acceleration of automation and electrification, and the consolidation of camp infrastructure.</p> <p>The two companies also share a common culture of sustainable mining practices and community engagement and support. Possible synergies with the Upper Beaver Gold project will be further assessed after the completion of the merger and, if conclusive, will be integrated to the Upper Beaver project design and IA. Agnico Eagle will remain a leader in environmental, social and governance matters, committed to maintaining a strong workforce and culture, robust Indigenous peoples, community and stakeholder relations.</p>



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48	Need for defined spatial boundaries for the Project, including rationale for the areas	<p>The spatial boundaries for the Project are constrained by land ownership as shown in Figure C.2 (Land Tenure and Land Use) in the IPD, and updated in DPD Figure D.1), with the exception of the transmission line which is anticipated to be constructed on Provincial Crown land.</p> <p>Should additional lands be acquired, there is the potential that other alternatives, particularly for mineral waste could be considered. These will be assessed in the IS if it is determined that an IA is required.</p>
49	Need for completed updated baseline studies to identify if the Project will have positive or adverse effects within federal jurisdiction or adverse direct or incidental effects, to assess the required mitigation measures and monitoring plans	<p>Environmental baseline studies have been completed previously or are ongoing in a number of areas (see DPD Section D.7), including related to fish and fish habitat as defined in subsection 2(1) of the <i>Fisheries Act</i>; and migratory birds, as defined in subsection 2(1) of the <i>Migratory Birds Convention Act, 1994</i> which are within Federal jurisdiction.</p>
50	Need for information on land ownership - including ownership of lands for the water diversion structures, and the access road to local cottages	<p>With the exception of the transmission line and a potential aggregate source which is anticipated to be on Provincial Crown land, Agnico Eagle owns the mining and the surface rights where the proposed mining facilities are proposed to be located.</p> <p>All land adjacent to waterbodies where the water diversion structures are proposed are also owned by Agnico Eagle, but there is a reserve to the crown for the surface rights on and over a strip of land of one chain (21.12 metres) along the shore of the lake.</p> <p>The main access road used by the local cottagers, Beaverhouse Road, which is also the access for the project, passes over private land mainly owned by Agnico Eagle. Based on information found, the Beaverhouse Road would be an Access Road as per the <i>Road Access Act</i>. The Court of Appeal held that an access road under the Act is <i>a road on land not owned by a municipality; it is not a public highway; and it serves as a motor vehicle access route to one or more parcels of land.</i></p>
51	Need for further information on the ore deposit	<p>Probable mineral reserves have been estimated for the Upper Beaver Gold project of 8.0 million tonnes grading 5.43 grams per tonne gold and 0.25% copper (containing 1.4 million ounces of gold and 19,980 tonnes of copper) as of December 31, 2020. Exploration activities are still ongoing to convert mineral resources to mineral reserves.</p>



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		<p>Extensive exploration has been completed within a 10 km radius of Upper Beaver Gold project site, and is still ongoing to better define the potential of other sites. The level of knowledge of other potential deposit around is less defined and will evolve in the future. Further assessment and exploration will be required to confirm potential of other development.</p> <p>Development of other ore bodies will be required to meet all federal and provincial regulatory processes at the time, and accordingly, may require completion of an additional IA process.</p>
52	Need for further information and design of all proposed project components - including the processing plant, dams, diversion channels, new roads (public and on-site), aggregate sources (including locations and access routes) and the transmission line	Further information regarding the proposed project, including facilities and activities will be provided in the IS, if an IA is required. Where appropriate alternative methods will also be provided in order to provide additional clarity on the rationale for the preferred project components.
53	Need for further information on hazardous chemicals used on site	<p>Hazardous chemicals will be required at the Upper Beaver Gold project, as are required at most industrial establishments. The chemical reagents that will be used in ore processing and for wastewater treatment at the site are typical for a mine operating in Ontario. All process reagents will be stored according to supplier and safety guidance, in separated and as applicable, contained areas. Reagent mixing systems will also be located within containment areas to contain any spills and prevent incompatible reagents from mixing. Storage tanks will be equipped with level indicators, instrumentation and alarms to ensure spills do not occur during normal operation.</p> <p>The primary reagents (or similar) required to process the ore are expected to include: lime, sodium cyanide, sodium hydroxide, hydrochloric acid copper sulphate pentahydrate, sodium metabisulphite, flocculant, coagulant, potassium amyl xanthate, methyl isobutyl carbinol, borax, silica sand, sodium nitrate and sodium carbonate.</p>



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54	Need for information on any plans for the processing plant to process ore from other nearby deposits, including other deposits owned by the Proponent	The Upper Beaver Gold project proposes to mine and process ore from an onsite underground mine and open pit. The processing plant is a very large capital investment, and will provide employment opportunities to the area. Although not currently identified or planned, there is the potential that the processing plant could also process ore trucked to the site from other compatible deposits owned by Agnico Eagle at the same time as processing the Upper Beaver Gold ore, or potentially after the onsite ore resource is depleted. Development of other ore bodies to feed the Upper Beaver Gold processing plant in the future (if any) will be required to meet all federal and provincial regulatory processes at the time, and accordingly, may require completion of an additional IA process.
55	Need for further information on methods for transportation of ore on-site to the processing plant, and transportation of processed materials and metal concentrate to locations off-site	<p>Although not currently identified or planned, there is the potential that the processing plant could also process ore trucked to the site from other compatible deposits. Development of other ore bodies to feed the Upper Beaver Gold processing plant in the future (if any) will be required to meet all federal and provincial regulatory processes at the time, and accordingly, may require completion of an additional IA process.</p> <p>Gold doré bars and copper concentrate that will be periodically shipped off site for sale. There will be very limited transportation of processed materials off site. Due to security concerns details are not available at this time regarding gold doré bar shipment, but it is anticipated to occur infrequently, potential once per week. There will be one to two trucks per day transporting copper concentrate to a purification / refining facility in Québec over the existing Ontario / Québec highway infrastructure. No shipment of product by rail is proposed.</p>
56	Need for further information on how waste will be handled, including information on the transportation of waste off-site and the potential routes that will be used, and the potential requirement for an on-site demolition landfill during decommissioning	Domestic and special management / hazardous materials resulting from the construction and operation of the Upper Beaver Gold project will be periodically shipped off site to appropriate facilities, including existing landfills that can accept industrial waste and potentially recycling facilities. A temporary waste management area may be established to allow for sorting of wastes prior to transport. Any transport of wastes will utilize the existing regional road network. Agnico Eagle will pursue opportunities, and it is hoped that much of the waste generated through demolition during closure, can be sold for reuse, or recycled as scrap metal. Any remaining wastes will be handled according to environmental regulations at that time, and are expected to be transported to an offsite waste management facility.



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		<p>The establishment of a demolition landfill will be assessed in the IS if an IA is required.</p> <p>Domestic sewage will be treated on site by an appropriately-sized, technically acceptable method, such as a sewage treatment plant. Temporary holding tanks may be used for more remote locations or after the sewage treatment plant is decommissioned. Sewage from the tanks will be treated in the onsite treatment plant or transported off site to an existing facility for disposal.</p>
57	Need for further information on the production, transportation, and storage of explosives, as well as explosion protection and response plans	Explosives storage area(s) will be developed on site in compliance with the <i>Explosives Act</i> , to support underground and open pit mining, as well as potentially for site preparation / diversion construction. Explosives will be prepared by a contractor off site, and delivered to site under their care and control as required. The location of any explosives-related facility on site will follow all federal regulatory guidance, including as related to siting.
58	Need for further information on traffic management near the project site, including how signage will be used to ensure public safety from mine vehicles	<p>There is an existing site access by means of Beaverhouse Road which connects to the Trans Canada Highway (Route 66) at two locations via Dobie Road. There are no residences along Beaverhouse Road or Dobie Road. The south access to the Trans Canada Highway is located on the McBean Property and is on private land owned by Agnico Eagle. Agnico Eagle will assess the potential traffic volumes from the Upper Beaver Gold project and describe proposed measures for traffic management as part of the IS, if an IA is required. Preliminary traffic information is provided in Section C.3.4 of the DPD.</p> <p>At the Upper Beaver site, a new access will be provided at the project site for the limited number of cottagers that use the existing road to access their properties so that local traffic will not travel through the secure area of the mine development. This access will be separate roads used by mine vehicles.</p>
59	Need for further information on impacts to public tax funded roads from mine vehicles	Agnico Eagle will assess the potential traffic volumes from the Upper Beaver Gold project in discussion with the Ministry of Transportation and local Townships, to assess any requirements associated with use of existing roads. Required taxes will be paid to applicable levels of government.



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#	COMMENT	RESPONSE
INDIGENOUS AND PUBLIC ENGAGEMENT		
60	Engagement activities must be respectful of Indigenous protocols and knowledge. Notification of engagement activities must be provided in advance to ensure Indigenous groups have adequate time to coordinate activities with community members	<p>Agnico Eagle has been engaging with Indigenous Nations and will continue to engage following the community-specific protocols and expectations, promoting advanced notification and time for participation through culturally appropriate means.</p> <p>Agnico Eagle agrees and notification has been and will continue to be provided in advance as much as reasonable, recognizing that there could potentially be regulatory time constraints associated with some engagement activities.</p> <p>Through our Indigenous People Engagement Policy, Agnico Eagle is committed to work in partnership with Indigenous Peoples to establish a mutually, beneficial, cooperative and productive relationship. Our approach is characterized by effective two-way communication, consultation and partnering. We are seeking to inform Indigenous communities and consult them on the likely impacts and potential opportunities arising from our activities.</p>
61	Need for information on the Proponent's future efforts to engage with Indigenous groups, including opportunities to meet with technical experts and review technical materials	Agnico Eagle is committed to meaningful engage and involve Indigenous Nations throughout the Project, including opportunities to meet with technical experts and review technical materials. Agnico Eagle has provided and will continue to provide opportunities and support for participation in field activities. Agnico Eagle will develop an Engagement Plan with Indigenous Nations to guide these activities.
62	Need for further information on future efforts to engage Indigenous groups and the public, given the ongoing COVID-19 pandemic and restrictions on in-person gatherings	The pandemic has reinforced the importance of building inclusive and trusting relationships with our local communities and Indigenous Peoples. Agnico has adapted through virtual engagement working collaboratively with Indigenous Nations. Additionally, Agnico Eagle has created numerous opportunities to regularly inform communities and Indigenous Nations about our project, while providing them with the opportunity to interact directly with our project team. Agnico Eagle will continue to listen to Indigenous Nations and local communities about how best to engage in a safe and effective manner.
63	Need for further information on efforts to engage with and seek input from the local population, including nearby property owners in and around the Beaverhouse Lake and Misema river system, and downstream stakeholders with regional interests. Recommend open-house events in the communities of Dobie, Larder Lake, King Kirkland, and Virginiatown	Agnico Eagle will conduct research to inform baseline studies with Indigenous Nations, local communities and land and resource users. Agnico Eagle will produce an inclusive Engagement Plan for 2022 and will evaluate the option of holding open-house events; however, Agnico Eagle wishes to make sure engagement activities will be suitable for comments documentation, to be able to address them properly.



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#	COMMENT	RESPONSE
64	Provide a list of all stakeholders that are being (or will be) engaged, such as federal departments, provincial ministries, Indigenous groups, and the general public	A list of all stakeholders and Indigenous Nations will be provided in the IS if an IA is required, updated from the list provided in the IPD.
INDIGENOUS PARTICIPATION OPPORTUNITIES		
65	Need for further information on funding opportunities by the Proponent for Indigenous groups to participate in project activities	Agnico Eagle is engaging with each identified local Indigenous Nation to outline the support required to participate in the IA process, should an IA be required.
66	Need to describe opportunities for Indigenous participation in collection and validation of environmental baseline data, including the Proponent's studies on wetland characterization, species at risk, migratory birds, wildlife, fish and fish habitat (including fish tissue sampling), water quality and water quantity, and archaeological studies	<p>Agnico Eagle and previous owners, have conducted environmental baseline investigations since 2011 for the Advanced Exploration permitting. For many years, following from a request from the community, a field worker from Beaverhouse First Nation often participate in field work with our technical professionals.</p> <p>Agnico Eagle recently completed additional work to fill gaps identified in the existing information, in anticipation of Impact Assessment requirements. In preparation for this work, Agnico Eagle had met with the five local Indigenous Nations that Agnico Eagle and the previous owned have engaged with on the Upper Beaver site for over 10 years, to inform about the baseline coming field work. Opportunities for participation were presented in advance, so Indigenous Nations could know and share their interest in advanced. Prior field work, Agnico Eagle reached out several times to Beaverhouse First Nation, Wahgoshig First Nation, Matachewan First Nation, Timiskaming First Nation and the Métis Nation of Ontario to inform them about the proposed work and to determine if there was interest in participating or observing, a number of the environmental baseline investigations during 2021 (see DPD Sections D.7.4 and D.7.5).</p> <p>Several members of the involved Indigenous Nations have been participating in field activities to date (water sampling, terrestrial resources, hydrology, aquatic resources and archaeology). Indigenous Nations have previously been invited and will continue to be invited to participate in field activities.</p> <p>Results of this work will be presented to the Indigenous Nations so they can comment and give their feedback.</p>
67	Request to participate in the Proponent's studies on impacts to country foods and contamination to country foods due to the Project, as well as in a Human Health Risk Assessment	Indigenous Nations have been invited and will continue to be invited to participate in the country foods study in support of the Human Health and Ecological Risk Assessment to be completed in support of the IS, if an IA is required.



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68	Need to describe opportunities for Indigenous participation in development of the mine plan, including wastewater management and the selection of the effluent discharge location, to ensure that Indigenous knowledge is considered	Agnico Eagle have invited and will continue to invite Indigenous Nations to participate in information and planning sessions to inform the mine plan that creates opportunities to understand and value Indigenous Knowledge in refining Project planning as applicable.
69	Need to describe opportunities for Indigenous participation in development of mitigation measures, monitoring plans and management plans, including water and wastewater management plans, waste rock management plans, decommissioning and closure plans, remediation of historical mine contamination, and the land use plan for the site post decommissioning phase, to ensure that Indigenous knowledge is considered	Agnico Eagle will invite Indigenous Nations to participate in information and planning sessions to inform the development of management, mitigation and monitoring approaches that creates opportunities to understand and value Indigenous Knowledge in refining Project planning.
70	Need for separate, Indigenous group-specific, Traditional Land and Resource Use (TKLU) studies, which includes a Métis-specific TKLU study, which is validated by Indigenous groups and incorporates knowledge from community Elders	Agnico Eagle is collaborating with each local Indigenous Nation to outline and support the development of Indigenous Knowledge studies (inclusive of land and resource use). Agnico Eagle will work with each Indigenous Nation to understand, incorporate and validate how this knowledge was used, informed and is presented in the IS, as appropriate.
71	Information on existing agreements between the Proponent and certain Indigenous groups in the Initial Project Description is not accurate	Upon reading the detailed comments, we understand that one of the communities actually required that more information be provided regarding the signatories of the exploration agreements. As per the IPD, Agnico Eagle has agreements for exploration and/or consultation activities, signed with four of the five local Indigenous Nations. Those Indigenous Nations are: Beaverhouse First Nation, December 2014; Matachewan First Nation / Wahgoshig First Nation, July 2015; and Timiskaming First Nation, May 2018
INDIGENOUS PEOPLES' CURRENT USE OF LANDS AND RESOURCES FOR TRADITIONAL PURPOSES		
72	Potential effects on current and future use of lands such as for fishing, hunting, harvesting and gathering, teaching, and knowledge sharing; resources; and access to sites of cultural significance, such as hunting areas located near the tailings storage facility	Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects in the IS, if an IA is required.



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73	Potential effects on current use of lands upstream and downstream from the Project due to the water diversion channels and changes in surface water quality	<p>Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects.</p> <p>There are no anticipated changes to lands or land use upstream of the project site, including related to changes in surface water quality.</p> <p>Small diversion channels will divert the Misema River system around York Lake. This affects a very small area, and will purposefully avoid archaeological sites.</p> <p>Effluent is proposed to be discharged to the Misema River downstream of the project site. The effluent will be required to meet all regulatory requirements. There is no expected changes to land use downstream of the project.</p>
74	Potential impacts on fishing, hunting, harvesting and gathering from increase in human population due to proposed mine development	<p>The Upper Beaver Gold project is located in historic mine district which has had an overall population decline. Over the past 35 years, the population has declined by more than one-third from 12,000 in 1986. The project is not expected to result in a large change in regional or local population but may contribute to modest growth in the existing population within commuting distance from the site. No material impact to fishing, hunting, harvesting and gathering from a modest increase in human population due to proposed mine development is expected.</p>
75	Potential effects on fishing due to contamination to fish in Beaverhouse Lake and downstream of proposed effluent discharge locations	<p>Agnico Eagle is collaborating with each local Indigenous Nation to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects in the IS, if an IA is required.</p> <p>There will be no discharges from the Upper Beaver Gold project to Beaverhouse Lake. The aquatics resources baseline study currently in preparation will document the existing concentration of parameters of concern in fish within Beaverhouse Lake (and other local watercourses / waterbodies). Similarly, the surface water baseline will document the existing concentration of parameters of concern in Beaverhouse Lake (and other local watercourses / waterbodies).</p> <p>Effluent from the mine will need to all regulatory requirements prior to discharge, including the Metal and Diamond Mining Effluent Regulations (MDMER). Studies will be completed as part of the IS if an IA is required, to determine if there will be a potential effect on fish from the effluent release.</p>



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76	Potential effects on the ability to hunt and trap animals, such as moose, due to wildlife disturbance from noise and habitat degradation	<p>Agnico Eagle is collaborating with each local Indigenous Nation to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects.</p> <p>Agnico Eagle intends to continue work with its neighbours to mitigate potential localized effects during operation. Hunting will continue to be restricted on the project site in order to ensure the safety of workers and others. Apart from the transmission line, there is no expected clearing of lands / removal of terrestrial habitat off site.</p> <p>There is the potential for some avoidance of the area near the site by wildlife due to noise effects; however, it is not anticipated that for species such as moose and furbearers including beaver, otter, wolf or marten that significant avoidance of the site due to noise would occur.</p>
77	Need for further information on medicinal and culturally significant plants and their habitat within the project and regional areas	<p>Agnico Eagle hopes to be able to work with local Indigenous Nations to help document this information, so that it can be used in assessing potential effects from the Upper Beaver Gold project and developing appropriate mitigation strategies. Information shared will be utilized to inform the IS, if an IA is required.</p>
78	Need for further information on the sites of cultural significance in the project area, including measures to mitigate potential effects on these sites	<p>Agnico Eagle is collaborating with each local Indigenous Nation to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects. Agnico Eagle will engage with each Indigenous Nation to support the development of appropriate mitigation and monitoring measures.</p> <p>Archaeological studies have been conducted and no cultural heritage features or artefacts have been identified in locations of proposed development. This will continue to be reviewed as the project's designs and progress, including relation to the diversion of the Misema River, and mitigation will be completed, if needed. Measures will be put in place to identify any as yet undetected features or artefacts during construction.</p> <p>Copies of archaeological studies completed will be shared with the IS, if an IA is required.</p>



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79	Need for further information on potential effects on navigation on all navigable waterways during all project phases, including proposed mitigation measures	<p>Agnico Eagle is collaborating with each local Indigenous Nation to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects. Agnico Eagle will engage with each Indigenous Nation to support the development of appropriate mitigation and monitoring measures.</p> <p>In-water structures will be designed to avoid interference with navigation as reasonable. Potential impediments to navigation include:</p> <ul style="list-style-type: none"> - Ava Lake water intake - Misema River effluent discharge - Upgrades to existing culverts at road crossings (one or two) - New watercourse crossings (three or more) - Dykes installed to isolate York Lake <p>Creation of diversion channels may improve local navigability.</p> <p>Further information regarding potential effects to navigation will be provided in the IS, if an IA required.</p>
80	The list of communities that are signatories to the Treaties in the project area described in the Initial Project Description should be revised and updated	<p>The Kirkland Lake area including Gauthier Township where the project is located, are included in the territory of the Robinson Huron Treaty (1850). None of the five indigenous Nation that Agnico Eagle have been engaging with for the past years for the Upper Beaver Gold project have signed this Treaty. However, the territory of each of the five Indigenous Nations are overlapping those of Treaty 9 and of the Robinson-Huron Treaty. Matachewan and Wahgoshig have signed Treaty 9 in 1906, while Timiskaming First Nation, Beaverhouse First Nation and Métis Nation of Ontario have not signed any of the treaties of the federal Government.</p>
INDIGENOUS PEOPLES' EXERCISE OF ABORIGINAL AND/OR TREATY RIGHTS		
81	Potential adverse impacts on fishing practices due to the destruction of culturally important fish species and their habitat, including contamination of water quality and changes in water flows	<p>There are no expected adverse impact to fishing impacts due to either destruction of fish species, contamination of water or changes in water flows. Fish will be removed from watercourses / waterbodies prior to isolation, as needed.</p> <p>There will be a loss of fisheries habitat associated with the Upper Beaver Gold project, including York Lake which will be mitigated, including through establishment of fish habitat compensation and offsetting measures.</p>



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		Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects. These aspects will be described in the IS, if an IA is required.
82	Potential adverse impacts on hunting practices due to effects on culturally important wildlife species, such as moose	<p>Agnico Eagle intends to continue work with its neighbours to mitigate potential localized effects during operation. Hunting will continue to be restricted on the project site in order to ensure the safety of workers and others.</p> <p>Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects in the IS, if an IA is required.</p>
83	Potential impacts on the effectiveness of hunters and gathers through the loss of ecological knowledge from loss of access to preferred harvesting areas	<p>Agnico Eagle intends to continue work with its neighbours to mitigate potential localized effects. Harvesting will continue to be restricted on the project site in order to ensure the safety of workers.</p> <p>Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects in the IS, if an IA is required.</p>
84	Potential adverse impacts on sensitive cultural sites and areas identified by Indigenous groups	Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform the evaluation of potential effects in the IS, if an IA is required.
INDIGENOUS PEOPLES' HEALTH AND WELL-BEING		
85	Need for information on potential bioaccumulation of contaminants in country foods due to uptake from air, water and soils, and associated impacts on Indigenous peoples' health, including proposed mitigation and monitoring plans	<p>Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform country food studies and the evaluation of potential effects.</p> <p>Agnico Eagle will engage with each Indigenous Nation to support the development of appropriate mitigation and monitoring measures.</p>
86	Potential effects on health, mental health, and well-being as a result of project-related changes to water used for recreational purposes and from a loss of connection to the land	Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform health and well-being studies and the evaluation of potential effects, that will be documented in the IS if an IA is required.



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87	Need for further information on the potential effects to social determinants of health, proposed mitigation measures and monitoring plans	Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform health and well-being studies and the evaluation of potential effects of the project. Agnico Eagle will engage with each local Indigenous Nation to support the development of appropriate mitigation and monitoring measures.
88	Need for further information on potential effects on food security of Indigenous groups, including proposed mitigation measures and monitoring plans	Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) that will inform health and well-being studies and the evaluation of potential effects of the project related to food security. If applicable, Agnico Eagle will engage with each Indigenous Nation to support the development of appropriate mitigation and monitoring measures.
INDIGENOUS PEOPLES' SOCIAL AND ECONOMIC CONDITIONS		
89	Potential for positive and adverse effects on social and economic conditions of Indigenous groups. Potential positive effects could include opportunities for employment, training and education and adverse effects could include increased cost of living, impact to the local economy, and reduction in land value	<p>Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) and gathering of additional information that will inform socio-economic studies and the evaluation of potential effects of the project. These will be documented in the IS, if an IA is required.</p> <p>Additionally, Agnico Eagle are in discussions with local Indigenous Nations to establish mutually beneficial, cooperative and productive relationships through which they would have access to training and employment opportunities as well as business opportunities. Three exploration agreements are already in place with four local Indigenous Nations, which contain commitments to provide job opportunities and business opportunities; it is expected to be similar for the mining project.</p>
90	Potential effects on the ability to commercially fish and hunt in the area, which is the livelihood of many local Indigenous people	Agnico Eagle is collaborating with local Indigenous Nations to support the development of their Indigenous Knowledge studies (inclusive of land and resource use) and gathering of additional information that will inform socio-economic studies and the evaluation of potential effects on commercial fishing and hunting in the area. This will be documented in the IS, if an IA is required.
91	Need for further information on whether Indigenous peoples and/or businesses in proximity to the Project will receive prioritized employment or business (e.g., procurement or contracting) opportunities	<p>Agnico Eagle is collaborating with local Indigenous Nations to understand their specific interests. Agnico Eagle will engage with each Indigenous Nation to support the development of opportunities for employment and business, as appropriate.</p> <p>Agnico Eagle strives, where feasible, to buy goods and services from locally based suppliers as a way of supporting the economic vitality of our communities, while at</p>



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		<p>the same time reducing the environmental impact of transporting materials and people from distant locations to our sites. We work on engaging with local suppliers for all phases of the mining life cycle. In 2020, 50% of our exploration contracts in Kirkland Lake area were with companies that had joint ventures with First Nations for a total Indigenous procurement spending of approximately \$6 million.</p>
92	<p>Need for further information (e.g., description and quantification) on economic opportunities for Indigenous groups (direct, indirect, and induced)</p>	<p>If an IA is determined to be required, the IS will provide additional information regarding economic benefits of the project, including economic opportunities for local Indigenous Nations.</p> <p>Additionally, Agnico Eagle are in discussions with local Indigenous Nations to establish mutually beneficial, cooperative and productive relationships through which they would have access to training and employment opportunities as well as business opportunities. Three exploration agreements are already in place with four local Indigenous Nations, which contain commitments to provide job opportunities and business opportunities; it is expected to be similar for the mining project.</p>
93	<p>Need for information on the potential for racism towards Indigenous peoples, and associated mitigation measures</p>	<p>Agnico Eagle has established an Indigenous Peoples Engagement Policy which is supported through awareness training. Through the Indigenous Peoples Engagement Policy, Agnico Eagle is committed to meaningful engagement and cooperation, defining capacity-building strategies, and is respectful of Traditional cultures. As well, Agnico Eagle has a Diversity and Inclusion Policy through which they are committed to and recognize the value of a diverse workplace.</p> <p>https://s21.q4cdn.com/374334112/files/doc_downloads/agnico_downloads/policies/2020/SD-Policy-English.pdf</p> <p>https://s21.q4cdn.com/374334112/files/doc_downloads/agnico_downloads/policies/Diversity/EN-2018-Diversity-and-Inclusion-Policy_FINAL.pdf</p> <p>These policies will be integrated as commitments and reinforced through the various project phases. Agnico Eagle has already committed to hold cultural awareness training to employees on a regular basis.</p>
94	<p>Reference the Government of Canada's Community Well-being Index to characterize Indigenous groups</p>	<p>The use of the Community Well-being Index will be reviewed with each local Indigenous Nation to determine its applicability to inform health and well-being studies and the evaluation of potential effects.</p>



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INDIGENOUS PEOPLES' SPIRITUAL, PHYSICAL, AND CULTURAL HERITAGE		
95	Need for further information on cultural heritage environment, including planned, ongoing or completed archaeological assessments	Archaeological studies have been conducted and is still ongoing in two locations close to the project footprint. This will continue to be reviewed as the project's designs and progress, including relation to the diversion of the Misema River, and mitigation will be completed, if needed. Measures will be put in place to identify any as yet undetected features or artefacts during construction. Copies of archaeological studies completed will be shared with the IS, if an IA is required.
96	Potential effects on known sites of spiritual significance near the Project	Agnico Eagle will engage with each local Indigenous Nation on how to document and present information on known sites of spiritual significance publicly (such as in the IS if an IA is required), including defining how effects can be managed and mitigated as required through Project planning.
97	Potential effects on the Indian Trail (referred to as the Traditional Trail in the Initial Project Description), which is one of the main access routes to the area and access to areas of significant cultural value. Recommend building a new access road for the purposes of mining instead of using the Indian Trail	Agnico Eagle will engage with each local Indigenous Nation on how to document and present information on known sites of spiritual significance publicly (such as in the IS if an IA is required), including defining how effects can be managed and mitigated as required through Project planning.
MITIGATION MEASURES AND RESIDUAL EFFECTS		
98	Where potential effects and mitigation measures are proposed, need for characterization of residual effects	If an IA is required, potential effects of the Upper Beaver Gold project will be assessed on the environment and mitigation measures proposed, in order to identify and characterize residual effects using a standardized methodology.
NAVIGATION AND NAVIGABLE WATERS		
99	Need for further information on potential effects on access to Beaverhouse Lake boat launch and Beaverhouse Lake, which provides important access to navigation, during all phases of the Project, including proposed mitigation measures	There is a rudimentary, public boat launch located at the west end of Beaverhouse Lake. Agnico Eagle will ensure that access is retained to Beaverhouse Lake. The current plan is to establish a new, higher quality access route that will avoid the mine site.



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100	Need for further information on potential impacts on all navigable waterways, including Beaverhouse Lake, the Misema River, Howard Lake, Misema Lake, and navigable waters impacted by water crossings (e.g., dams, bridges), during all phases of the Project, including proposed mitigation measures	<p>Agnico Eagle has committed that water levels in Beaverhouse Lake are proposed to be retained at current levels. Any potential indirect effects to Beaverhouse Lake will be fully assessed through the environmental regulatory process.</p> <p>Potential impacts to local watercourses and waterbodies, including with respect to navigability, will be assessed in the IS should an IA be required. There is no potential for impacts to Howard Lake, Misema Lake or other upstream waterbodies will occur. Minor impacts may occur within Beaverhouse Lake associated with water taking and within the Misema River at the discharge location.</p> <p>The proposed diversion from Ava Lake to the Misema River may potentially improve local navigability, as there is currently a steep, natural rapids between Ava Lake and York Lake.</p> <p>Any new or upgraded watercourse crossings will be assessed, and if appropriate, regulatory review and/or approvals obtained in advance.</p>
SOCIAL AND ECONOMIC CONDITIONS		
101	Need for information on potential impacts from influx of project workers overwhelming the capacity of travel corridors and local services, such as healthcare services and the accommodation industry	Through research and engagement, Agnico Eagle will collect information and determine potential impacts from increased traffic and demand on local services associated with the Project. This information will be provided in the IS as appropriate, if an IA is required.
102	Need for further information on baseline economic conditions such as income, unemployment, labour participation, poverty, dependency/reliance on industry, housing statistics, property and land values	Further information will become available through engagement and research activities to inform baseline economic conditions. This information will be provided in the IS as appropriate, if an IA is required.
103	Need for information on economic prosperity and depression cycles regarding mining projects, including proposed mitigation measures to stabilize these cycles for the Project	Agnico Eagle will model the economic environment to consider the cyclical nature of resource industries based on historical prices, and propose measures to react to future price and demand changes and minimize the impact on the operation. As appropriate this information will be used to support the effects assessment in the IS, if an IA is required.
104	Potential for positive impacts on local economies due to employment opportunities	Further information about economic opportunities (employment and business) will be identified through engagement and research activities as well as Project planning. As appropriate this information will be used to support the effects assessment in the IS, if an IA is required.



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105	Potential long-term impacts to economic conditions. Need for the assessment of economic effects to span beyond the mine life, and to consider long-term impacts to communities to ensure long-term community viability	Long-term economic conditions will be identified through engagement and research activities as well as Project planning. As appropriate this information will be used to support the effects assessment in the IS, if an IA is required.
106	Need for further information on potential adverse economic impacts, such as impacts on individual stakeholders, local recreation, tourism and forestry industries, other industries competing for labour, and stresses on government resources	Further information about economic effects will be identified through engagement and research activities as well as Project planning. As appropriate this information will be used to support the effects assessment in the IS, if an IA is required.
107	Need for further information on job availability by project phase	Further information will become available through Project planning and through engagement and research activities that inform baseline studies. As appropriate, this information will be provided in the IS, if an IA is required.
108	Need for further information on the breakdown of jobs by occupation, or otherwise provide any other proxy for skill requirements of the jobs that are to be created	Further information will become available through Project planning and through engagement and research activities that inform baseline studies. As appropriate, this information will be provided in the IS, if an IA is required, potentially based on other mines operated by Agnico Eagle.
109	Need for further information on the breakdown of employment by full-time with benefits versus part-time without benefits, and expected salaries and wages	Further information will become available through Project planning and through engagement and research activities that inform baseline studies.
110	Need for further information on whether underrepresented groups will be considered for training and employment opportunities	<p>Further information will become available through Project planning and through engagement and research activities that inform baseline studies as well as GBA+. Agnico Eagle will engage with diverse populations to inform Project planning and decision-making. As appropriate this information will be used to support the effects assessment in the IS, if an IA is required. Agnico Eagle has a Diversity and Inclusion Policy through which they are committed to and recognize the value of a diverse workplace.</p> <p>https://s21.q4cdn.com/374334112/files/doc_downloads/agnico_downloads/policies/2020/SD-Policy-English.pdf</p> <p>https://s21.q4cdn.com/374334112/files/doc_downloads/agnico_downloads/policies/Diversity/EN-2018-Diversity-and-Inclusion-Policy_FINAL.pdf</p> <p>These policies will be integrated as commitments and reinforced through the various project phases.</p>



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111	Need for further information on how company policies, including on sustainable development and diversity and inclusion, will be applied to the Project to ensure maximization of positive outcomes for local communities	<p>Agnico Eagle aims to act in a socially responsible manner and contribute positively to the communities in and near where it operates. We are committed to working with our employees, other stakeholders and rights holders to create growth and prosperity, allowing everyone to benefit from our mining experience, hence making mining work for all. We believe that responsibly undertaken, gold mining plays an important and positive role in supporting sustainable socio-economic development in communities. We work together with communities to assess potential opportunities to enhance local economic benefits and create economic prosperity beyond the life of mine.</p> <p>Through our Sustainability Development Policy we are committed in contributing to the social and economic development of sustainable communities associated with our operations through measures such as local hiring, local procurement and community investments: https://s21.q4cdn.com/374334112/files/doc_downloads/agnico_downloads/policies/2020/SD-Policy-English.pdf.</p> <p>For the Upper Beaver Gold project, our goal is to maximize the benefits for the local communities, just like we do everywhere else we operate. The Upper Beaver Gold project is expected to create between 400 and 600 jobs and generate economic opportunities and vitality for local businesses. Our goal is to hire 100% of our workforce, including our management teams, directly from the region / country in which each of our operations are located.</p> <p>From a procurement perspective, Agnico Eagle strives, where feasible, to buy goods and services from locally-based suppliers as a way of supporting the economic vitality of our communities, while at the same time reducing the environmental impact of transporting materials and people from distant locations to our sites. Local suppliers must meet the same criteria that all potential suppliers must meet in order to do business with our Company. Approximately 70% of the spending of our Canadian operations is done locally, in their respective region. As for community investments, the surrounding communities of the Upper Beaver Gold project will be included in our community investment program.</p>



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		<p>Agnico Eagle are also in discussions with local Indigenous Nations to establish mutually beneficial, cooperative and productive relationships through which they would have access to training and employment opportunities as well as business opportunities.</p> <p>Diversity and inclusion are fundamental to Agnico Eagle’s core values of Family, Trust, Respect, Responsibility and Equality. We are committed to engaging, developing and retaining the best people, and empowering everyone with equal access to opportunities and recognition. We value workforce diversity – which includes under-represented groups, such as women and Indigenous Peoples - and promote the benefits of diversity and inclusion.</p> <p>As such, we have adopted a Diversity and Inclusion Policy that outlines our commitments and responsibilities, which build on the work of our Diversity and Inclusion Council: https://s21.q4cdn.com/374334112/files/doc_downloads/agnico_downloads/policies/Diversity/EN-2018-Diversity-and-Inclusion-Policy_FINAL.pdf</p> <p>Our diversity and inclusion action plan focuses on understanding the composition of our communities, how our employees self-identify, existing and perceived barriers and best practices; opening eyes with information and awareness training; opening doors by providing opportunities for education, training and jobs; partnering for success with industry associations, suppliers and interested groups.</p>
112	Need for further information on whether diversity and inclusion will be supported through the training and hiring strategy, and in the procurement/contracting strategy	<p>At Agnico Eagle, we are committed to valuing workplace diversity and inclusion across all aspects of our business. This commitment aligns with our core values of Family, Trust, Respect, Responsibility and Equality and to the United Nations Sustainable Development Goal No 5 – Gender Equality. This commitment is also reflected in our Sustainable Development Policy: https://s21.q4cdn.com/374334112/files/doc_downloads/agnico_downloads/policies/2020/SD-Policy-English.pdf, and our Code of Business Conduct and Ethics.</p> <p>We are committed to engaging, developing, and retaining the best people and empowering everyone with equal access to opportunities and recognition. As such, we have adopted a Diversity and Inclusion Policy that outlines our commitments and responsibilities, which build on the work of our Diversity and Inclusion Council. The</p>



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		<p>Council, which was established in 2019, has identified six key pillars of diversity in the way we treat people within our organization: Recruitment, Orientation, Retention, Compensation, Training and Development.</p> <p>For all our operations and projects, we strive to achieve a level of diversity from the mine face to the senior leadership team reflective of our host communities. We are guided in our efforts by our Diversity and Inclusion Council which continues to build upon an action plan that is focused on: understanding the reality of our employees, communities and society at large; opening minds with information and awareness training; opening doors by providing opportunities for education, training and jobs; and partnering for success with, industry associations, suppliers and interested groups.</p> <p>Additionally, we are in discussions with Indigenous groups concerned by the Project to establish mutually beneficial, cooperative and productive relationships through which they would have access to training and employment opportunities as well as business opportunities.</p>
113	Need for further information on proposed plans for draining York Lake, including additional information on the social and economic effects related to this activity	There are no expected social or economic effects related to this activity. Agnico Eagle will share information on the proposed plans for York Lake to understand potential impacts to social and economic environments and inform the IS, if an IA is required.
SPECIES AT RISK, WILDLIFE, AND THEIR HABITAT		
114	Need for additional baseline studies on terrestrial wildlife, species at risk, and migratory birds (including updated breeding bird surveys and fall migratory bird surveys)	A comprehensive terrestrial field program was conducted in 2021 with surveys for plants, amphibians, reptiles, raptors, breeding birds and mammals, including bats, moose and furbearers including wolves, marten and beaver. Surveys included Species at Risk using appropriate protocols. Data from 2021 surveys is currently being analyzed for summary in baseline report. If data gaps are identified, additional studies will be considered in 2022. A brief summary of the 2021 results is provided in the DPD (Section D.7).
115	Potential effects on the movement, reproductive success and habitat of wildlife, such as loons, ducks, blue herons, moose, black bears, lynx, bald eagles, ospreys, turkey vultures, barn owls, hoot owls, nighthawks, falcons, mice, rabbits, squirrels, and chipmunks	A comprehensive terrestrial field program was conducted in 2021 with surveys for plants, amphibians, reptiles, raptors, breeding birds and mammals, including bats, moose and furbearers including wolves, marten and beaver. Surveys included Species at Risk using appropriate protocols. Data from 2021 surveys is currently being analyzed for summary in baseline report. If data gaps are identified, additional studies will be considered in 2022.



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116	Potential effects on terrestrial wildlife, including migratory birds and species at risk, from Project activities such as deforestation and land-use changes, habitat fragmentation from construction of linear infrastructure such as the transmission line, roads, and the water diversion channels, and associated effects on local biodiversity and species of cultural value	Landscape effects from Project impacts and cumulative disturbance effects on migratory birds, terrestrial wildlife and Species at Risk will be described in the IS, if an IA is required.
117	Potential effects on aquatic wildlife, such as amphibians, from dewatering of York Lake and the construction and operation of dams and diversion channels	Potential effects on wildlife including amphibians will be described in the IS, if an IA is required, including any potential effects from dewatering.
118	Concern about the release of air quality contaminants from mining operations, such as dust from the tailings and metals, and associated effects on wildlife and their habitat	Monitoring for the mine operations phase can include air monitoring for dust and any potential pathways for impacts to wildlife or their habitat.
119	Potential effects on wildlife from increased noise levels and light pollution, including proposed mitigation measures	Potential effects on wildlife from noise and light pollution will be fully considered in the IS, if an IA is required. Mitigation measures to reduce any predicted impacts will be included as appropriate.
120	Need for further information on proposed plans for draining York Lake, including additional information on the impacts to terrestrial wildlife and their habitat from this activity, and proposed mitigation measures	Landscape effects from Project impacts and cumulative disturbance effects on migratory birds, terrestrial wildlife and Species at Risk will be included in the in the IS, if an IA is required for the Project. Mitigation measures to reduce any predicted impacts will be included as appropriate.
121	Clarity on the specific timing windows being considered to avoid or mitigate potential effects to breeding birds from project construction and tree clearing	Timing windows to mitigate potential impacts to breeding birds from construction will encompass April 1 to August 31.
122	Need for further information on mitigation measures for potential effects to species at risk	Mitigation measures for Species at Risk will include timing windows, minimization of habitat disturbance, monitoring and habitat compensation where needed to meet authorization requirements under the <i>Endangered Species Act</i> , if any.
SUSTAINABILITY		
123	Need for further information on the Project's over-all contribution to environmental, social, health, and economic sustainability	<p>Agnico Eagle believes that responsibly undertaken, gold mining plays an important and positive role in supporting sustainable socio-economic development in communities. We are committed in contributing to the social and economic development of sustainable communities associated with our operations.</p> <p>Agnico Eagle believes that the Upper Beaver Gold project (and the Kirkland Lake properties) may have the potential, and importantly could be core, for developing a new mining platform and creating a long-term economic benefit to the region and the communities. Mining is a major economic driver for the Province of Ontario and</p>



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		<p>Canada. It provides a large number of direct jobs and indirect employment. The Upper Beaver Gold project is expected to have a positive effect on the local and regional economy. Up to approximately 400 to 600 permanent jobs are anticipated from the project, as well as many contracts for qualified contractors in the region. Training and work experience are expected to result in capabilities that are transferable to other economic sectors for residents and contractors.</p> <p>From a procurement perspective, Agnico Eagle strives, where feasible, to buy goods and services from locally-based suppliers as a way of supporting the economic vitality of our communities, while at the same time reducing the environmental impact of transporting materials and people from distant locations to our sites.</p> <p>As for community investments, the surrounding communities of the Upper Beaver Gold project will be included in our community investment program. Our community investment program targets initiatives that enable each of the communities where we operate to benefit from economic development in their region, even after mining ceases. Our goal is to provide both Agnico Eagle and our host communities with optimum return on our investments in strategic health, education and capacity-building initiatives. Since 2009, Agnico Eagle’s community investments have totaled over \$52 million. In 2020 alone, the Company contributed over \$5 million to various local organizations and events. Most funds went to economic development initiatives (26%), health (24%), and promotion and sponsorships (18%).</p> <p>We are also in discussions with local Indigenous Nations to establish mutually beneficial, cooperative and productive relationships through which they would have access to training and employment opportunities as well as business opportunities.</p> <p>In terms of environmental sustainability, the Upper Beaver Gold project would provide the opportunity to rehabilitate legacy sites, including historic tailings and mine rock located in, and beside, York Lake. Historically the Upper Beaver Mine was advanced at two locations: on the east and west shores of York Lake (referred to as the Upper Beaver East and Upper Beaver West Mines). In these two areas, there are historic openings at surface (shaft and raise), mining stopes close to surface, mine rock and tailings in the shore and the littoral areas of York Lake, and concrete foundations. Over the last years, some rehabilitation and investigation work has</p>



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		<p>been conducted on the property. As part of the proposed future activities, Agnico Eagle will continue to rehabilitate these historical mine hazards in accordance with the Rehabilitation Code of Ontario, including with the proposed open pit, where there is an opportunity to permanently remove some of these legacy issues.</p>
124	<p>Need for further information on how the Proponent’s company policy on sustainability will be applied to company activities</p>	<p>Throughout our 64 years in business, Agnico Eagle have built a strong culture of responsible behaviour, achieving high standards of sustainability performance with a long-term goal of distinguishing ourselves as responsible miners. We have earned our reputation as a partner of choice within the industry by operating with respect for others, building trust, being reliable, sharing opportunities and bringing prosperity to our employees, their families and the communities in which we operate.</p> <p>Agnico Eagle integrates sustainable development considerations into its business strategy as well as in the way it plan and manage its activities. It is fundamental to all phases of our operations from exploration to reclamation. We assess potential impacts and risks associated with our activities across the whole lifecycle of our projects and operations.</p> <p>Our Sustainable Development Policy which can be viewed at the following website: (https://www.agnicoeagle.com/English/sustainability/our-approach-and-commitments/default.aspx) highlights our commitment to health and wellness, to the protection of Human Rights, and to minimize risks associated with the management of tailings and water. At the core of our Policy, we are committed to creating value for our shareholders while operating in a safe, socially and environmentally responsible manner, contributing to the prosperity of our employees, their families, the communities and respecting human rights, cultures, customs and values of those impacted by our activities. This translates into four fundamental objectives: operate safely, maintain a healthy workplace, protect the environment, and treat our employees and communities with respect.</p> <p>We are committed to implementing standards developed through international initiatives, principles, codes and programs to which Agnico Eagle is a signatory. As such, we have implemented the Mining Association of Canada’s Towards Sustainable Mining initiatives at our operating mines. This initiative promotes best practices in environmental protection, biodiversity, energy efficiency, water stewardship, tailings</p>



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		<p>management, community engagement and Indigenous relations, safety and transparency.</p> <p>Other standards which guide our activities include the International Cyanide Management Code, the Conflict-Free Gold Standard, the Voluntary Principles on Security and Human Rights, and the United Nations Sustainable Development Goals. Additionally, as a member of the World Gold Council. Agnico Eagle has also committed to implement the Responsible Gold Mining Principles by the end of 2022. We have also implemented governance, disclosure and reporting structures and guidelines to ensure good oversight, transparency, accountability and sustainability, measure ourselves and help uphold our core values in an ethically responsible manner.</p> <p>We have implemented our Risk Management and Monitoring System (RMMS) as the foundation for managing the commitments made in our Sustainable Development Policy and under the international initiatives, principles, codes, and programs to which we are a signatory.</p>
125	Need for further information on how the Proponent will ensure environmental resources are sustained over the long term (i.e., the seven generations principle of sustainability)	<p>At Agnico Eagle, we strive to work together for a sustainable future. Throughout our 64 years in business we have consistently created value for our shareholders, while striving to improve employee conditions and making a significant contribution to our communities. We have built a strong culture of responsible behaviour, achieving high standards of sustainability performance with a long-term goal of distinguishing ourselves as responsible miners. Agnico Eagle's is committed in building a great long-term business, one that generates superior returns while remaining committed to our core values of trust, respect, equality, family and responsibility. Our strategy is to build long-term mining platforms.</p> <p>Sustainability is a mindset and we see it as an opportunity to do better, to constantly improve and to deliver on our responsibilities and promises to our stakeholders. We believe that responsibly undertaken, gold mining plays an important and positive role in supporting sustainable socio-economic development in communities. With a culture of respect and trust, stakeholders become partners with whom you want to develop long-term relationships. We work together with communities to assess potential opportunities to enhance local economic benefits and create economic prosperity beyond the life of mine.</p>



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		<p>Properly managing and mitigating environmental risk is critical to protecting the environment, as well as human health, and thus maintaining the sustainability of our business.</p> <p>Agnico Eagle is dedicated to supporting biodiversity and integrating conservation actions into our planning and operations. Careful land use planning, done in consultation with local communities, allows us to identify critical habitat and species, and put forward initiatives to monitor, study, protect and support the sustainability of ecosystems. Additionally, we are committed to rehabilitating our sites to ensure long-term physical and chemical stability, in consultation with nearby communities and in a timely manner. Successful closure and reclamation ensure a sustainable environment and economy for our host communities. As an example, at our Pinos Altos mine in Mexico, we have made the sustainable integration of bees a key element of our restoration and conservation activities, which form part of our mine closure plans. By doing so, we are helping preserve natural habitat for these important pollinators. We are also creating opportunities for agri-food initiatives and sustainable economic development in the region by teaching beekeeping to community members.</p> <p>Moreover, Agnico Eagle has ongoing partnerships with research institutes such as the Research Institute on Mines and Environment UQAT-Polytechnique. Focused on the environment, this unique research program is providing leading-edge research on environmental challenges that face the global mining industry, such as climate change and tailings management. Much of this work is accomplished while also training highly qualified personnel who represent the workforce of tomorrow.</p>
TRANSBOUNDARY EFFECTS		
126	Potential for transboundary environmental, social, and economic effects between the provinces of Ontario and Quebec	<p>There are no facilities planned in the Québec. No transboundary negative impacts from the Upper Beaver Gold project are anticipated. The project is not expected to result in changes to the natural and biophysical environment outside of Ontario, as will be confirmed through future modelling. The air quality assessment will evaluate potential transboundary impacts on ambient air quality, based on proximity of the Upper Beaver Gold project to the Ontario – Québec border.</p> <p>Based on proximity of the Upper Beaver Gold project to the Ontario – Québec border, it is expected that some workers and contractors may travel to the site from</p>



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		Québec, and not just from Ontario. In addition, there will be one to two trucks per day transporting copper concentrate to a purification / refining facility in Québec over the existing Ontario / Québec highway infrastructure.
127	Need for further information on the intended use of the inter-provincial rail line between Quebec and Ontario	Agnico Eagle does not plan to use of the inter-provincial rail line for the Upper Beaver Gold project (see DPD Section F.2).
USE OF LANDS AND RESOURCES		
128	Potential effect on access to private properties if currently used access roads are closed for mining activities	A new access will be provided at the project site for the limited number of cottagers that use the existing road to access their properties so that local traffic will not travel through the secure area of the mine development (see DPD Section C.3.4).
129	Potential degradation of the experience of using Beaverhouse Lake and the Misema River system	Experience will be discussed so that an understanding of the potential impacts to experience can be documented, assessed and that management and monitoring measures can be proposed. These will be outlined in the IS if an IA is required, as appropriate.
130	Potential degradation of the experience of lands and resources due to light pollution, noise and vibration from the Project, such as at nearby residences and areas used for hunting, fishing and gathering	Experience will be discussed so that an understanding of the potential impacts to experience can be documented, assessed and that management and monitoring measures can be proposed. These will be outlined in the IS if an IA is required, as appropriate.
VULNERABLE POPULATION GROUPS (GBA+)		
131	Need for social and economic information to be disaggregated by identity factors (such as by gender or age group) to identify gaps or inequities among diverse groups of the population	This information will be captured through research and engagement activities to understand the perspectives and experiences of diverse groups of the population. This information will be used to inform the IS if an IA is required, as appropriate.
132	Need for more information on how an Indigenous-focused GBA+ lens is applied to the Project	Through engagement with each local Indigenous Nation an approach to gathering GBA+ information and applying to the project will be co-defined. This information will be used to inform the IS if an IA is required, as appropriate.
133	Clarity on potential issues of gender based violence, such as sexual harassment, violence against women, human trafficking, and means to avoid or mitigate potential issues, including any policies or information on external interactions with Indigenous peoples in or around the Project, including potential for differential effects on women	<p>Specific issues and nuances of recurrent themes of gender-based violence will be co-defined through research and engagement with Indigenous Peoples and local communities. This information will be used to inform the IS if an IA is required, as appropriate.</p> <p>Agnico Eagle conducts business in regions where human rights laws are respected and promoted, and we are committed to upholding fundamental human rights as defined in the United Nations Universal Declaration of Human Rights. This includes providing assurance that our operations will not support, benefit or contribute to unlawful armed conflict, human rights abuses, or breaches of international humanitarian law. We report on overall implementation of these matters through the</p>



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		Mining Association of Canada's <i>Towards Sustainable Mining</i> annual progress report, the <i>Voluntary Principles on Security and Human Rights</i> annual report and the World Gold Council <i>Conflict-Free Gold Assurance Report</i> . Agnico Eagle began adopting the <i>Voluntary Principles on Security and Human Rights</i> in 2016. These standards aim to help extractive sector companies balance their obligation to respect human rights while protecting the assets and people at their operations.
WATER - SURFACE WATER OR GROUNDWATER		
134	Need for updated surface water baseline studies, including water quality and hydrology	Baseline surface water (water quality, hydrology) investigations have been ongoing in area since 2011, and have intensified in the last few years. Surface water quality monitoring in 2021 includes sampling within the Beaverhouse Lake, Misema River, York Lake, Victoria Creek, Victoria River, as well as smaller local area tributaries and streams. The baseline studies will document the existing conditions of local watercourses / waterbodies, including water quality and hydrology. This information will be used to inform the IS if an IA is required, as appropriate.
135	Need for updated baseline hydrogeological studies, including water levels, groundwater flow directions, hydraulic conductivities and groundwater quality in the overburden, shallow and deeper bedrock	These aspects are included in the baseline studies that are ongoing. Applicable information will be included and assessed in the IS if an IA is required.
136	Need for updated sediment baseline studies in the waterbodies where mining effluent will be deposited	Sediment investigations were completed as part of the aquatic resources baseline studies during 2021 (and previously), including in the Misema River downstream of the site (see DPD Section D.7.5). This information will be used to support future assessment of effects of the Project, as applicable.
137	Potential effects to surface water and groundwater due to acid rock drainage, metal leaching and seepage from the tailings storage facility, waste rock stockpiles, ore stockpiles, and overburden stockpiles. Need for mitigation measures and monitoring plans	Baseline investigations have been completed / are ongoing with respect to surface water and groundwater quality, hydrology and hydrogeology. Geochemistry investigations have also been completed in the past for the advanced exploration program, and have been expanded to consider mine wastes (overburden, mine rock and tailings) from the mine (see DPD Section D.7.2). Potential effects to surface water and groundwater associated with Project facilities and activities will be assessed in the IS if an IA is required, including with the use of predictive models as appropriate. Mitigation measures and an appropriate monitoring program will be established based on the results of the assessment of effects.



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138	Potential effects on surface water quality and downstream flow from overprinting of waterways and minor creeks by stockpiles and mine infrastructure, and following reconnection of the Pit Lake to the Misema River during decommissioning and reclamation. Need for mitigation measures and monitoring plans	Potential effects to surface water quality and flows associated with Project facilities and activities will be assessed in the IS if an IA is required, including with the use of predictive models as appropriate. Local changes to watershed areas and minor creeks are expected, but not to the overall flow within Misema River upstream or more than a short distance downstream of the site. Mitigation measures and an appropriate monitoring program will be established based on the results of the assessment of effects.
139	Need for further information on effects on surface water quality and quantity in the project watershed and downstream of the Project, such as to the Grassy Lake Outwash Conservation Reserve, Lake Temiskaming, and the municipality of Temiskaming Shores. Clarify if any other provincial parks or conservation reserves are located within the project watershed. Need for mitigation measures and monitoring plans	Regulatory requirements for effluent discharge quality and changes to flow regimes are strict in Ontario. Baseline investigations have been completed / are ongoing with respect to surface water quality upstream and within a reasonable downstream of the Project site where effects could occur, or for comparison purposes. The watershed boundary for the Project is presented in IPD Figure C.3 (Watershed Boundary) and in the IPD (Figure D.3); the Grassy Lake Outwash Conservation Reserve, Lake Temiskaming, and the municipality of Temiskaming Shores are not located within the Project watershed boundary. The Project is located immediately adjacent to three small lakes which are inline with the Misema River. Ultimately the Misema River flows south into the Blanche River, which drains into Lake Timiskaming, and further south to the Ottawa River and St. Lawrence.
140	Potential effects on surface water levels, including flooding, upstream of the diversion channels, and nearby surface water features. Need for mitigation measures and monitoring plans	There may be some localized changes as a result of changes to watershed areas during operations, due to the need to collect (and treat as necessary) contact. Agnico Eagle has committed that water levels in Beaverhouse Lake will be retained at within current levels, inclusive of natural fluctuations and flooding (per Table F.4 of the DPD). Minor impacts may occur within Beaverhouse Lake associated with water taking and within the Misema River at the discharge location. Potential impacts to local watercourses and waterbodies, including with respect to water levels and flows, will be assessed in the IS should an IA be required.
141	Potential effects of water taking from local waterways, including Ava Lake, and effects on surface water levels	Water takings from watercourses and waterbodies are regulated in Ontario. No discernible effects to Ava Lake levels outside of natural fluctuations are anticipated.
142	Potential effect on groundwater quality due to mine contact water and domestic sewage discharge from the Project. Need for mitigation measures and monitoring plans	Potential effects to groundwater associated with Project facilities and activities will be assessed in the IS if an IA is required, including with the use of predictive models as appropriate. Mitigation measures and an appropriate monitoring program will be established based on the results of the assessment of effects.



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143	Potential effects on groundwater quantity in the vicinity of the site due to dewatering of the open pit and underground workings, resulting in impacts on groundwater users and flows in adjacent surface water bodies. Need for mitigation measures and monitoring plans	<p>Based on published sources and discussions with local individuals, Agnico Eagle understands that that bottled water is used for drinking water, or is water is taken from surface water courses / waterbodies. The closest potable wells are believed to be located in Dobie, Ontario (Ministry of Environment, Conservation and Parks well records). A review of known sources of potable water near the Project footprint will be completed in order to assess potential for effects.</p> <p>Potential effects will be assessed in the IS if an IA is required, or through other regulatory instruments. Mitigation measures and an appropriate monitoring program will be established based on the results of the assessment of effects.</p>
144	Need for further information on the effects to surface water quality and quantity, and groundwater quality and quantity, from draining York Lake and diverting the Misema River. Need for mitigation measures and monitoring	Potential effects to surface water quality and flows associated with Project facilities and activities, including the draining of York Lake and the diverting of the Misema River will be assessed in the IS if an IA is required, including with the use of predictive models as appropriate. Mitigation measures and an appropriate monitoring program will be established based on the results of the assessment of effects.
145	Need information on how final discharge location(s) are chosen, including any modelling undertaken to select the final location	A treatment plant will be established to ensure that excess water from the site meets all regulatory requirements and can be discharged to the environment. The location has been identified as potentially at the location on the Misema River, where discharge from the Advanced Exploration Project is proposed to occur (see DPD Figure C.1). The discharge location has not as yet been firmly determined, but will be selected once additional information is available, including water quality modelling, to ensure there is sufficient assimilative capacity.
146	Need for further information on the stormwater management strategy and how it may mitigate potential effects on surface water flow, surface water quality and groundwater quality and quantity. Need for mitigation measures and monitoring plans	Effective stormwater management is being considered fully in the project design, including with respect to Engineering Design Flood. Agnico Eagle intends a very high level of water recycle within the project in order to reduce overall effects, including water takings. Stormwater management will be considered as appropriate in the IS if an IA is required, including as a potential mitigation measure. An appropriate monitoring program will be established based on the results of the assessment of effects including residual effects.



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147	Need for further information on the Proponent's water management plans for the Project, such as the design for collection ponds and ditches for waste rock stockpiles and ore stockpiles, the type of liners that will be used for the ditching and collection ponds, and further information on wastewater and effluent treatment	A preliminary project design has been presented in the IPD with the intent to inform a decision as to whether or not an IA is required for the Upper Beaver Gold project. Design of the water management for the project is ongoing, with an intent to meet all regulatory requirements. Further information will be provided in the IS if an IA is required, or through other regulatory instruments.
WETLANDS		
148	Potential effects on riparian areas in waterbodies	Effects to riparian areas will be assessed as appropriate in the IS if an IA is required.
149	Need for further information on the potential effects on wetlands, such as changes in availability of rare habitat and loss of ecological functions, during all project phases. Need for mitigation measures and monitoring plans	<p>Wetlands that are potentially impacted by the Project directly or indirectly will be identified within and directly adjacent to the Project footprint. A preliminary map of wetlands / low-lying areas with and near the project footprint based on published information is provided with the DPD (Figure D.5), which will be updated with 2021 field data.</p> <p>Any predicted loss of ecological function during each Project phase will be assessed as part of the IS if an IA is required, and used as inputs into a mitigation and monitoring plan to ensure sustainability and persistence of wetlands on the landscape as needed.</p>

