

KINROSS

Great Bear

Great Bear Gold Project Impact Statement

Appendix A-2:

Concordance Table for Impact Statement to Tailored Impact Statement Guidelines



Appendix A-2: Concordance Table for the Impact Statement to the Tailored Impact Statement Guidelines

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
2. PROPONENT INFORMATION	
2.1 The proponent	
The Impact Statement must:	S1, S22
<ul style="list-style-type: none"> provide contact information for proponent representatives for the Project (e.g. name, address, phone, email); identify the proponent(s) and, where applicable, the name(s) of the legal entity(ies) that would develop, manage and operate the Project; describe corporate structure, including roles and responsibilities of key personnel; specify the mechanism used to ensure that corporate policies will be implemented and respected for the Project; and identify key personnel, contractors and/or sub-contractors responsible for preparing the Impact Statement. 	
2.2 Qualifications of individuals preparing the Impact Statement	
In support of transparency, the Impact Statement must:	S22 Note 2
<ul style="list-style-type: none"> provide information on the individuals who prepared the sections within the Impact Statement; and demonstrate that qualified individuals have prepared the information or studies. Where possible, the proponent should use experts who are members of a professional body or recognized association. 	
3. PROJECT DESCRIPTION	
3.1 Project overview	
The Impact Statement must describe the Project, key project components and ancillary activities, scheduling details, the timing of each phase of the Project, the total lifespan of the Project and other key features. If the Project is part of a larger sequence of projects, the Impact Statement must outline the larger context.	S1.3
3.2 Project location	
The following information must be included and, where appropriate, located on map(s):	S1.2 F1.1-1
<ul style="list-style-type: none"> geographic coordinates (i.e. longitude/latitude using international standard representation in degrees, minutes, seconds) for the centre of the main project site; project footprint, including the extent of the tenure; 	S2.1.5 F2.1-2
<ul style="list-style-type: none"> surface areas, location and spacing of project components; distance of project components to any federal lands and the location of any federal lands within the RSA; 	S5 S1.2
<ul style="list-style-type: none"> services and infrastructure and current land and aquatic uses in the area, including: <ul style="list-style-type: none"> roads; municipalities and administrative regions; resource development projects already underway in the study area (e.g. mines and forestry operations); dams, reservoirs and hydropower facilities in regulated waterways; local businesses and industries such as fisheries and outfitters, and any other relevant uses; and boundaries of local resource management plans including water management plans, forest management plans, fisheries and wildlife management plans; 	S2.1.3
<ul style="list-style-type: none"> primary, secondary and tertiary watersheds, as per the Ontario Watershed Boundaries; all waterbodies, including intermittent and ephemeral streams, and their location on a map, as well as flow direction; 	F1.2-2
<ul style="list-style-type: none"> navigable waterways; 	S5.8.4 ApV
<ul style="list-style-type: none"> landcover in the area; including important or critical habitats; 	ApM-1, ApM-2 (F21)
<ul style="list-style-type: none"> ecozones, ecoregions, and ecodistricts as per the province's or Canada's Ecological Land Classification; 	S8.2 T7.8-2 ApM-1, ApM-2
<ul style="list-style-type: none"> environmentally sensitive areas, such as national, provincial, and regional parks, ecological reserves, ecologically and biologically sensitive or significant areas, wetlands, and habitats of federally or provincially listed species at risk and other sensitive areas; lands subject to conservation agreements; 	ApM-1, ApM-2
<ul style="list-style-type: none"> description and locations of all potable drinking water sources (i.e. municipal, Indigenous or private); 	S14.5.2.2.3 ApH-1 (T2-1)
<ul style="list-style-type: none"> description of local communities and Indigenous communities; 	S10, S11, S12, S13, S14 F1.2-1
<ul style="list-style-type: none"> Indigenous traditional territories and/or consultation areas, Treaty and/or Title lands, First Nation Reserve lands, Indigenous harvesting regions (with permission of Indigenous communities); and 	S10.10, S11.10, S12.10, S13.10, S14.10 F2.1-1
<ul style="list-style-type: none"> culturally important features of the landscape as identified by Indigenous communities. 	S7.14, S14.5, S14.6.2.2.4 ApP-1, ApP-2
3.3 Regulatory framework and the role of government	
The Impact Statement must identify:	S1.4
<ul style="list-style-type: none"> any federal power, duty or function that may be exercised that would permit the carrying out (in whole or in part) of the Project or associated activities; 	
<ul style="list-style-type: none"> legislative or regulatory requirements that are applicable to the Project at the federal, provincial, regional and municipal levels or from any body, including a co-management body, established under a land claim agreement referred to in section 5 of the <i>Constitution Act, 1982</i>, or from an Indigenous governing body that has powers, duties or functions in relation to the environmental effects of a project; 	S19
<ul style="list-style-type: none"> federal or provincial greenhouse gas (GHG) legislation, policies or regulations that will apply to the Project, in accordance with the relevant version of the <i>Strategic Assessment of Climate Change (SACC)</i> at the time the Impact Statement is submitted to the Agency; 	S5.13.2 ApD-3
<ul style="list-style-type: none"> government policies, resource management plans, planning or study initiatives relevant to the Project and/or the impact assessment and their implications, including relevant regional studies, regional assessments and strategic assessments; 	S6
<ul style="list-style-type: none"> any treaty, self-government, land claims or other agreements between federal or provincial governments and Indigenous communities that are pertinent to the Project and/or the impact assessment; 	S3.2, S10.10, S11.10, S12.10, S13.10, S14.10 T2.1-1
<ul style="list-style-type: none"> any relevant land use plans, land zoning, or community plans; 	S2.1.2, S2.16
<ul style="list-style-type: none"> information on land lease agreement or land tenure, when applicable; and 	S2.1.5
<ul style="list-style-type: none"> municipal, regional, provincial and/or national objectives, standards or guidelines, by-laws or ordinances that have been used by the proponent to assist in the evaluation of any predicted environmental, health, social or economic effects or impacts. 	S7.2.2, S7.3.2, S7.4.2, ..., Note 1, S7.16.2 S8.2.1, S9.2.1
3.4 Project components and activities	
The Impact Statement must:	S5, S10, S11, S12, S13, S14
<ul style="list-style-type: none"> describe the project components, associated and ancillary works, and other characteristics to assist in understanding the potential environmental, health, social and economic effects, and impacts on Indigenous Peoples and their rights; 	
<ul style="list-style-type: none"> describe project activities to be carried out during each project phase (construction, operations, decommissioning, and abandonment), with a focus on activities with the greatest potential to have environmental, health, social and economic effects, or impacts on Indigenous Peoples and their rights; <ul style="list-style-type: none"> describe the location, methods used, schedule (including expected start date, time of year, duration and frequency), magnitude and scale of each project activity; and highlight activities that involve periods of increased disturbance to environmental, health, social and economic conditions or impacts on Indigenous Peoples; 	S5.3

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> provide a summary of any change made to the Project as originally proposed in the Detailed Project Description, including the reasons for these changes; 	S5.20
<ul style="list-style-type: none"> provide sufficient detail to support analysis regarding the Project's impacts in the context of potential interaction between valued components (VCs); 	S5
<ul style="list-style-type: none"> detail how input from diverse population groups was used to identify potential components or activities of concern; and 	S3.4, S6.3, S10.4, S11.4, S12.4, S13.4, S14.4 ApX
<ul style="list-style-type: none"> include maps of key project components, boundaries of the proposed site with geographic coordinates, major existing infrastructure, proponent lands, leased properties or lands, adjacent resource lease boundaries, adjacent land uses and any important environmental features 	F5.2-1, 5.2-2
<p>At a minimum, the Impact Statement must describe components and activities, for each project phase, outlined below.</p> <p>Project components:</p>	S5.4.2 F5.4.1
<ul style="list-style-type: none"> open pit mine (footprint, location, development plans including phases for the pits); 	S5.4.3 F5.4-2, F5.4-3
<ul style="list-style-type: none"> underground mine (location, development plans); 	S5.6 F5.6-2
<ul style="list-style-type: none"> crusher and processing facilities (footprint, process, technology, location); 	S5.5 F5.2-1, F5.2-2
<ul style="list-style-type: none"> storage of waste rock, overburden, topsoil, low-grade ore storage, lake sediment, aggregate, and stockpiles (footprint, locations, volumes, development and management plans and design criteria); 	S5.7.2, S5.7.3 F5.7-1 to F5.7-5, F5.7-6
<ul style="list-style-type: none"> tailings management facilities (footprint, location and preliminary design) and related pipelines (including those for tailings and return water); 	S5.14 F5.14-1 to F5.14-5
<ul style="list-style-type: none"> water management infrastructure to divert, control, collect and discharge surface drainage and groundwater discharges to the receiving environment, including collector ditches, groundwater interception wells, sedimentation and seepage collection ponds, sumps, and pump and pipeline systems; 	S5.14.2 F5.2-1, F5.2-2
<ul style="list-style-type: none"> waterbody diversions or realignments, if needed; 	S5.8 F5.2-1, F5.2-2
<ul style="list-style-type: none"> other permanent and temporary linear infrastructures (transmission line, access roads, haul roads, and pipelines), identifying the route of each of these linear infrastructures, the location and types of structures used for water crossings; 	S5.14
<ul style="list-style-type: none"> provide the conceptual design features of all collector and diversion ditches, culverts, dams, bridges, spillways and water storage facilities (including sediment ponds and seepage collection ponds); 	S5.11
<ul style="list-style-type: none"> sources of drinking and industrial water, including water used for dust control (include estimate of quantities needed for each phase); 	S5.14
<ul style="list-style-type: none"> treatment facilities for potable water, sewage, wastewater and effluent (including proposed treatment technologies, footprint, location, and discharge locations); 	S5.10 F5.10-1
<ul style="list-style-type: none"> aggregate deposits and aggregate plant (footprint, location, volumes), if needed; 	S5.15, S5.12
<ul style="list-style-type: none"> fueling stations for trucks / vehicles or energy supply source (e.g. generators); 	S5.4.1.4
<ul style="list-style-type: none"> explosives storage (method, location, licensing, management); 	S5.8.3
<ul style="list-style-type: none"> construction workspace and laydown areas; 	S5.8 F5.2-1, F5.2-2, F5.8-1
<ul style="list-style-type: none"> temporary or permanent infrastructure, including accommodation complex, administration buildings, warehouses, garages, maintenance buildings, parking areas; 	S5.12
<ul style="list-style-type: none"> temporary or permanent energy supply sources; 	S5.2, S5.8.1
<ul style="list-style-type: none"> fences and barriers (including location); and 	F5.2-1, F5.2-2
<ul style="list-style-type: none"> any other infrastructure relevant to the Project. <p>Project Activities:</p> <p>Construction, including site preparation:</p> <ul style="list-style-type: none"> construction staging site grubbing, clearing and excavation, including tree and vegetation removal; excavation and salvage of topsoil, soil and bedrock, and rocky substrates; management of excavated materials, including potentially acid-generating and metal-leaching materials; blasting (locations, frequency, duration, time of year, time of day, and methods); explosives transportation, storage, and management; operation of light-duty, heavy-duty, and mobile off-road equipment (type, quantity, power source); storage, gestation, disposal and management of hazardous materials, fuels and waste (indicate types, methods, location, and amounts); transportation and management of aggregate materials, if needed (source and quantity); storage areas for material stockpiles; construction of site fencing; construction of access roads and haul roads; construction of temporary or permanent infrastructure; construction of mine waste management facility; construction of permanent and temporary water management structures, including: <ul style="list-style-type: none"> water management facilities to manage water that comes into contact with plant processes, including collector ditches, sumps, pump and pipeline systems, and groundwater interception wells; water diversions, dewatering or deposition activities, storm water management, site drainage, runoff management and sediment or erosion control; and water management to divert, control, collect, treat (if necessary) and discharge surface drainage and groundwater seepage to the receiving environment, including collector ditches, groundwater interception wells, sedimentation ponds, sumps, and pump and pipeline systems; development of aquatic habitat offset and compensation features and species at risk compensation features (if applicable) - Indicate if offsetting and compensatory habitat will be developed during or after the construction phase. 	S5.3.1 S5.4.1 (and related individual sections)
<p>Operation:</p> <ul style="list-style-type: none"> ore production and stockpiling, product extraction, processing and treatment; drilling and blasting (location, frequency, duration, time of year, time of day, and methods); explosives storage and use; mine waste management, including tailings, waste rock, overburden, and contaminated soil; water management, including water diversions, site drainage and runoff management, sediment and erosion controls, site dewatering, potable water, water use requirements, storm water, process water, wastewater, water recycling and effluent treatment (quantity, treatment requirements, release point(s) and receiving waterbodies); use and maintenance of access roads and haul roads; storage and handling of reagents, petroleum products, chemical products, hazardous materials and residual materials; progressive reclamation of project components and open pit slopes; and workforce management, including transportation and work schedules 	S5.1 to S5.18

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<p>Suspension, decommissioning, or abandonment:</p> <ul style="list-style-type: none"> preliminary outline of a suspension, decommissioning, or abandonment, or reclamation plan for any components associated with the Project that remain in the proponent's control; the ownership, care, and control of project components; site restoration and reclamation including desired outcomes, approach, and follow-up or adaptive management to achieve desired outcomes; filling the open pit with water and reconnecting pit with natural drainage system, if appropriate; removal of surface contamination from facilities and equipment; well decommissioning; dismantling and removal of equipment and systems; demolition or disposition of buildings and ancillary structures; long term care, monitoring and maintaining the integrity of the site, including site drainage and water management, and any remaining structures; transfer of fuel and associated wastes to interim and long-term licensed storage facilities; suspension, abandonment or decommissioning for temporary or permanent facilities; and removal of power infrastructure. 	<p>S5.3.3, S5.19 F5.20-1</p>
3.5 Workforce requirements	
<p>The Impact Statement must describe the anticipated labour requirements, employee programs and policies, and workforce development opportunities for the designated project, including:</p> <ul style="list-style-type: none"> opportunities for employment outlining the anticipated number of full-time and part-time positions to be created, and timeline for when they will be created. Positions should be presented using the National Occupational Classification system; anticipated workforce region of origin (i.e. local, regional, out-of-province or international employees), including the anticipated scenario plus a qualitative summary of other plausible scenarios, for each phase of the Project; the skill and education levels required for the positions; anticipated hiring policies and programs; investment in training opportunities; working conditions and anticipated work scheduling for construction and operation (e.g. hours of work, rotational schedules, fly-in/fly-out); the anticipated transportation options for employees to commute to and from the mine site; accommodation and lodging requirements for the workforce during each project phase; workplace policies and programs for Indigenous employment, and employment of other underrepresented groups; workplace policies and programs, including codes of conduct, workplace safety, education and cultural training programs; and employee assistance programs and benefits programs. 	<p>S5.17, S7.16.4, S7.16.6, S7.16.7, S10.8.4, S11.8.4, S12.8.4, S13.8.4, S14.8.4, S18.1, S18.6</p>
4. PROJECT PURPOSE, NEED AND ALTERNATIVES CONSIDERED	
4.1 Purpose of the Project	
<p>The Impact Statement must outline what is to be achieved by carrying out the Project.</p>	<p>S4.1</p>
4.2 Need for the Project	
<p>The Impact Statement must describe the underlying opportunity or issue that the Project intends to seize or solve and should be described from the perspective of the proponent. The description must include:</p> <ul style="list-style-type: none"> supporting information that demonstrates the need for a project; any comments or views of Indigenous Peoples, the public and other participants on the proponent's need statement; and description of whether and how the Project would support any federal or provincial government objectives. 	<p>S4.2</p>
4.3 Alternatives to the Project	
<p>The Impact Statement must provide a description of the alternatives to the Project that are technically and economically feasible to meet the Project need and achieve the Project purpose, from the perspective of the proponent.</p>	<p>S4.3</p>
<p>The Impact Statement must present a rationale for selecting the proposed project over other options, which includes how sustainability principles were considered. The Impact Statement must describe, at a minimum, the following alternatives to the Project:</p> <ul style="list-style-type: none"> the no-action (null) alternative to serve as a benchmark for the assessment and comparison of the Project and any alternatives to a Project. The description should note the baseline conditions of the VCs associated with the Project, as well as changes to these baseline conditions that are likely to occur in the future if the Project was not carried out (e.g. changes as result of other projects already planned for the region, changes to the socioeconomic conditions, future climate change). 	<p>S4.3.3</p>
4.4 Alternative means of carrying out the Project	
<p>The Impact Statement must identify and consider the potential environmental, health, social and economic effects and the impacts on the rights of Indigenous Peoples of alternative means of carrying out the designated project that are technically and economically feasible.</p>	<p>S4.5 to S4.19</p>
<p>For the selection of the alternative means of carrying out the Project, the Impact Statement must describe:</p> <ul style="list-style-type: none"> the criteria to determine technical and economic feasibility of possible alternative means; the best available technologies considered and applied in determining alternative means; those alternative means that are technically and economically feasible presented in sufficient and appropriate detail; and the particularities for each alternative mean and their potential adverse and positive environmental, health, social and economic effects, and their impacts on the rights of Indigenous Peoples as identified by Indigenous communities. 	<p>S4.3.4</p>
<p>The Impact Statement must then describe:</p> <ul style="list-style-type: none"> the methodology and criteria that were used to compare the alternative means, to determine the preferred means of carrying out the Project, and to justify the exclusions of other solutions, based on the trade-offs associated with the preferred and other alternative means; environmental criteria should include effects to air quality, water quality, all wildlife and associated habitat (including wetlands), risk from accidents and malfunctions; potential effects to species at risk as per the Species at Risk Act (SARA), including any critical habitat, must be considered in alternative assessment, including a description of how avoidance of effects was considered and how it may be achieved through alternative means of carrying out the Project or alternatives to the Project; the preferred means of carrying out the Project and the rationale for the selection based on the consideration of environmental, health, social and economic effects, the impacts on the rights of Indigenous Peoples, technical and economic feasibility, and the use of best available technologies, and consideration of the sustainability principles application of GBA Plus to the analysis of alternative means of carrying out the Project to inform how effects may vary for diverse population groups; and how concerns, views and information provided by Indigenous Peoples, the public and other participants were taken into account in establishing criteria and conducting the analysis. 	<p>S4.5 Note 3</p>
<p>In its alternative means analysis, the Impact Statement must address key project elements, including, but not limited to, the following, where relevant to the Project:</p>	<p>S4.3.4</p>
<ul style="list-style-type: none"> project layout and/or component size and locations; 	<p>S4.4.9</p>
<ul style="list-style-type: none"> route or corridor options for linear project components (e.g. transmission lines, access roads (including public access roads), haul roads, natural gas pipelines, effluent pipelines); 	<p>S4.14 F4.14-1</p>
<ul style="list-style-type: none"> energy and power sources (temporary and permanent, stationary and mobile); 	<p>S4.14 F4.14-1</p>
<ul style="list-style-type: none"> aggregate supply sources (e.g. location of dedicated sources and/or suppliers); 	<p>S4.4.7</p>
<ul style="list-style-type: none"> location, construction and crossing methods for waterbodies, watercourses, wetlands, and other obstacles; 	<p>S4.4.8</p>
<ul style="list-style-type: none"> mining-related activities: 	<p>S4.4.1</p>
<ul style="list-style-type: none"> mining operations (open pit, underground); and 	<p>S4.4.2</p>
<ul style="list-style-type: none"> processing facilities location and design (e.g. comminution, separation, concentration and dewatering); 	

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<ul style="list-style-type: none"> mine waste and stockpile management (tailings, waste rock, overburden, low-grade ore), including: <ul style="list-style-type: none"> tailings storage methods (e.g. conventional slurry, thickened, filtered tailings facility, co- deposition, re-use as partial pit backfill); location of mine waste and stockpiles in consideration of groundwater flow, local groundwater users, as well as nearby rivers, lakes and wetlands; methods of managing acid mine rock drainage, neutral metal mine drainage, and/or metal(loid) leaching potential of all excavated materials; storage, management, and re-use of excavated materials (e.g. waste rock, overburden, topsoil); and stockpile designs (e.g. height, slope pitch); 	S4.6 to S4.8, S4.10 F4.6-1 to F4.10-1
<ul style="list-style-type: none"> water and wastewater management including: <ul style="list-style-type: none"> water supply sources (potable and industrial, surface water and groundwater); location of effluent discharge points (including temporary discharge locations during the construction phase, and ongoing discharge locations during the operations phase); and treatment technologies and techniques to control effluent quality; 	S4.12, S4.13 F4.13-1
<ul style="list-style-type: none"> domestic waste management (e.g. landfills, disposal facilities); 	S4.15 F4.15-1
<ul style="list-style-type: none"> timing options for components and phases of the Project; 	S4.3.3
<ul style="list-style-type: none"> suspension, decommissioning, and abandonment options; and 	S4.4.12, S4.17 to S4.19
<ul style="list-style-type: none"> workforce hiring, scheduling and accommodation strategies. 	S4.4.11, S7.16 S14.8.4
5. DESCRIPTION OF PUBLIC PARTICIPATION AND VIEWS	
5.1 Summary of public engagement activities	
The Impact Statement must describe the proponent's public engagement activities regarding the Project, including: <ul style="list-style-type: none"> a record of engagement undertaken that describes all efforts, successful and unsuccessful, to seek the views of the public with respect to the Project; 	ApC
<ul style="list-style-type: none"> efforts made to distribute project information and the information and materials that were distributed during the consultation process; 	ApC
<ul style="list-style-type: none"> methods used, where consultations were held, the persons, organizations, and diverse population groups consulted; 	S3 ApC
<ul style="list-style-type: none"> efforts made to involve the public in the development and revision of the proponent's Impact Statement, including collection and incorporation of community knowledge; and 	S3 ApC
<ul style="list-style-type: none"> efforts to engage diverse population groups of the community to support the collection of information needed to complete the GBA Plus. 	S3.4 ApX
5.2 Analysis and responses to questions, comments and issues raised	
The Impact Statement must: <ul style="list-style-type: none"> provide a summary of key issues related to the Project, including the potential environmental, health, social and economic effects and potential for disproportionate effects for diverse population groups, which were raised through engagement with the public, or how they were incorporated into the Impact Statement; 	S4.3.2, S5.20
<ul style="list-style-type: none"> describe any questions and comments raised by the public and how they influenced the design of the Project; 	S4.3.2, S5.20, S7.1, S8.3, S9.3, S16.4
<ul style="list-style-type: none"> identify the alternative means, mitigation measures or the monitoring and follow-up programs identified to deal with public uncertainties; 	S4.3 to 4.19
<ul style="list-style-type: none"> identify public concerns that have not been addressed, if any, and provide the reasons why they have not been; and 	NA Note 4
<ul style="list-style-type: none"> provide details and commitments regarding how the public will be kept involved if the Project were to be approved and were to proceed, such as public involvement in follow-up and monitoring programs. 	S3.8, S18.6
6. DESCRIPTION OF ENGAGEMENT WITH INDIGENOUS COMMUNITIES	
6.1 Indigenous Knowledge considerations	
The Impact Statement must indicate where input from Indigenous communities, including Indigenous Knowledge, has been incorporated and how it was considered... Where findings differ between Indigenous Knowledge and scientific or technical studies, the proponent should clearly present how both were considered in the Impact Statement.	S3.4, S7.1, S8.3, S9.3, S10.6, S10.7, S11.6, S11.7, S12.6, S12.7, S13.6, S13.7, S14.6, S14.7, S16.4 Note 5
6.2 Record of engagement	
The Impact Statement must provide a record of engagement that describes all efforts, successful and unsuccessful, taken to seek the views of each potentially affected Indigenous community with respect to the Project. This record of engagement is to include all engagement activities undertaken prior to the submission of the Impact Statement. The record of engagement in the Impact Statement must include:	S3.3, S3.4
<ul style="list-style-type: none"> the proponent's Indigenous engagement policy, as well as established policies and stated principles related to the collection of Traditional Knowledge and traditional land use information; 	S3.2.1
<ul style="list-style-type: none"> the list of Indigenous communities engaged by the proponent, including those that the proponent was unsuccessful in engaging; 	NA
<ul style="list-style-type: none"> where applicable, a copy of each community-specific engagement plan developed collaboratively by the Indigenous community and the proponent for the Project. If only one engagement plan was developed for engagement with all Indigenous communities, provide a rationale for this approach); 	Note 6
<ul style="list-style-type: none"> the engagement activities undertaken with each Indigenous community, including the date, means and results of engagement; 	S3.4
<ul style="list-style-type: none"> a description of the outcomes of conversations with each Indigenous community about how they wish to be engaged by the proponent; 	S3.4 Note 6
<ul style="list-style-type: none"> the results of any engagement and the perspectives of the Indigenous Peoples involved; 	S3.4
<ul style="list-style-type: none"> the list of the consultation or engagement protocols adopted by each Indigenous community, if applicable. A written copy of the protocols must be included, when available; 	Note 6
<ul style="list-style-type: none"> an explanation for cases where engagement efforts have proven unsuccessful; 	S3.4
<ul style="list-style-type: none"> a description of how project information is frequently and transparently shared with Indigenous Peoples; 	S3.4
<ul style="list-style-type: none"> a description of the preferred methods for sharing information, including alternative solutions implemented for people and locations where technological resources are limited or language barriers exist (i.e. translation of written documents or provision of summaries in Indigenous languages); 	S3.3, S3.4
<ul style="list-style-type: none"> a description of how Indigenous communities were provided with a reasonable opportunity to review draft sections of the Impact Statement prior to them being filed, based on the mutually agreed approach to their participation, where disagreements occurred, and how disagreements were considered; 	S3.4 ApC
<ul style="list-style-type: none"> a description of how Indigenous expertise will be sought to assist with the carrying out of the Project, should it be approved; 	S3.1.3
<ul style="list-style-type: none"> a description of efforts to engage diverse segments of each Indigenous community in culturally appropriate ways, including groups identified by gender, age or other community-relevant factors (e.g. hunters, trappers, other harvesters, and Elders) to support the collection of information needed to complete the GBA Plus; 	ApC
<ul style="list-style-type: none"> a description of how engagement activities by the proponent were intended to ensure Indigenous communities were provided an opportunity to evaluate the Project's potential positive and negative effects and impacts on their members, communities, activities and rights, as identified by the Indigenous community(ies); 	S3.4 ApC
<ul style="list-style-type: none"> where applicable, a description of Indigenous-led assessments and a summary of the scope, objectives and timelines of the assessments, as made available to the proponent; and 	S3.1.3
<ul style="list-style-type: none"> any agreements pertaining to engagement that are finalized or in progress, with anticipated timelines to complete. 	S3.3.1 Note 6

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
The record of engagement must demonstrate that the capacity needs of Indigenous communities were taken into account, and that timelines were adequately communicated and flexible enough to ensure Indigenous communities had the ability to review and gain understanding of information in the Impact Statement, including, where applicable, specific procedures for contributing information for sections of the Impact Statement.	S3.4 ApC
6.3 Analysis and response to questions, comments, and issues raised	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> consider and incorporate Indigenous Knowledge, spiritual practices, cultural beliefs, laws and norms in the assessment, including whether the Project would be inconsistent with Indigenous laws and norms; 	S7.1, S8.3, S9.3, S10.4, S10.7.2.3, S11.4, S11.7.2.3, S12.4, S12.7.2.3, S13.4, S13.7.2.3, S14.4, S14.7, S14.7.2.3, S16.4 Note 5
<ul style="list-style-type: none"> describe the type of information received from Indigenous communities (e.g. observations, issues, knowledge); 	S7.1 Note 5
<ul style="list-style-type: none"> describe the potential effects and impacts to environmental, health, social, cultural and economic conditions of each Indigenous community, informed by the Indigenous community(ies) involved in the assessment and must include both adverse and positive effects; 	S3.4 S10, S11, S12, S13, S14
<ul style="list-style-type: none"> describe the potential effects to Indigenous Peoples' physical and cultural heritage, the current use of lands and resources for traditional purposes, or any structure, site or thing that is of historical, archaeological, paleontological or architectural significance, informed by an Indigenous community involved in the assessment; 	S7.14, S7.15, S10.6.3, S10.7.3, S11.6.3, S11.7.3, S12.6.3, S12.7.3, S13.6.3, S13.7.3, S14.6.3, S14.7.3 Note 7
<ul style="list-style-type: none"> describe the rights or interests of each Indigenous community, that the communities themselves have identified and consented to including in the Impact Statement, that may be impacted by the Project; 	S12.10, S13.10
<ul style="list-style-type: none"> describe the potential effects and impacts to lands in a reserve within the meaning of subsection 2(1) of the <i>Indian Act</i>. Note that federal lands include "reserves, surrendered lands and any other lands that are set apart for the use and benefit of a band and that are subject to the <i>Indian Act</i>, and all waters on and airspace above those reserves or lands"; 	S10.5.3, S10.6.3, S10.7.3, S10.8.3, S11.5.3, S11.6.3, S11.7.3, S11.8.3, S12.5.3, S12.6.3, S12.7.3, S12.8.3, S14.5, S14.8
<ul style="list-style-type: none"> provide an analysis of the extent of the potential effects on each Indigenous community, and the views of each Indigenous community regarding the extent of impact on the exercise of rights as well as how these effects and impacts may be avoided, managed, mitigated or accommodated; 	S10, S11, S12, S13, S14
<ul style="list-style-type: none"> detail the main issues, questions and comments raised by each Indigenous community during engagement activities and the proponent's responses, including how matters have been addressed in the Impact Statement or will be addressed in the future; 	S7.1, S8.3, S9.3, S10.4, S11.4, S12.4, S13.4, S14.4, S16.4
<ul style="list-style-type: none"> append any specific studies or assessments provided by Indigenous communities, if permission has been obtained from the Indigenous community concerned to publish them; 	Note 8
<ul style="list-style-type: none"> identify the sources of information used in the analyses of potential impacts to rights, as well as assumptions and methodologies used for the analyses; 	S10.10, S11.10, S12.10, S13.10, S14.10
<ul style="list-style-type: none"> integrate the perspectives of Indigenous youth, women, two-spirited people, individuals with disabilities, Elders, and other community-relevant factors where provided; 	S3.2
<ul style="list-style-type: none"> indicate where and how Indigenous communities' Indigenous Knowledge, perspectives, participation, and input were integrated into or contributed to decisions regarding the Project or its impact assessment, including: <ul style="list-style-type: none"> the construction, operation, decommissioning, abandonment, and reclamation plans, including final land use plans for the site (e.g. decommissioning of water management infrastructure on site); 	S4.3.2, S5.20
<ul style="list-style-type: none"> the evaluation of alternatives to the Project, and alternative means of carrying out the Project (e.g. selection of the effluent discharge location); 	S4.3.2
<ul style="list-style-type: none"> developing the assessment including setting spatial and temporal boundaries, identifying and selecting VCs and sensitive receptor locations, and collecting baseline information (e.g. fish studies and moose), 	S6.3 Note 3
<ul style="list-style-type: none"> the validation of model assumptions (e.g. the rate of country food consumption); 	S14.9
<ul style="list-style-type: none"> characterization of potential environmental, health, social and economic effects of the Project for each Indigenous community, 	S10.5.6, S10.6.6, S10.7.6, S10.8.6, S11.5.6, S11.6.6, S11.7.6, S11.8.6, S12.5.6, S12.6.6, S12.7.6, S12.8.6, S13.5.6, S13.6.6, S13.7.6, S13.8.6, S14.5.6, S14.6.6, S14.7.6, S14.8.6
<ul style="list-style-type: none"> the cumulative effects assessment; 	S15
<ul style="list-style-type: none"> measures to mitigate effects or to enhance or optimize potential project benefits, including compensation and offset plans and measures of success; 	S10.5.4, S10.6.4, S10.7.4, S10.8.4, S11.5.4, ..., Note 1, S14.8.4
<ul style="list-style-type: none"> the determination of the extent of significance of effects; 	S6.6, S10.5.7, S10.6.7, S10.7.7, S10.8.7, S11.5.7, ..., Note 1, S14.8.7
<ul style="list-style-type: none"> follow-up and monitoring activities as well as adaptive management strategies should the Project proceed; and 	S20
<ul style="list-style-type: none"> describe how the information gathered during the Planning Phase of the impact assessment of the Project was included, including the documents submitted to the Registry by Indigenous communities during that phase of the impact assessment. 	S10.4, S11.4, S12.4, S13.4, S14.4, T5.20-1
6.4 Collaboration with Indigenous Peoples following the submission of the Impact Statement	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the type of work the proponent intends to accomplish with Indigenous communities during subsequent phases of the impact assessment process; set out any proponent commitments for engaging affected Indigenous communities, where appropriate; describe how Indigenous Peoples will be involved in decision-making processes related to the Project throughout its lifecycle; and describe how Indigenous Knowledge and expertise would be considered in carrying out the Project. 	S3.8, S18.8.4

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
7. ASSESSMENT METHODOLOGY	
7.1 Baseline methodology	
The Impact Statement must provide a description of the baseline for the environmental, health, social and economic conditions related to the Project.	S2, S7.2.4, S7.3.4, ..., Note 1, S8.4, S9.4, S10.5.2, S10.6.2, S10.7.2, S10.8.2, S11.5.2, ..., Note 1, S14.8.2, ApD-1, ApE-1, ApF, ApG, ApH-1, Apl-1, ApJ, ApK-1, ApL-1, ApM-1, ApO-1, ApP-1, ApQ-2
7.2 Selection of valued components	
The Impact Statement must identify the valued components (VCs) that will serve as the focal points for the impact assessment	S1.5
In the event that a VC is suggested by an Indigenous community but is excluded from the Impact Statement, the proponent must provide a justification for its exclusion. The Impact Statement must: <ul style="list-style-type: none"> describe the VCs and provide a rationale for the selection of VCs in sufficient detail to allow the reviewer to understand their relevance to the assessment; indicate the source and reasons of the concerns or interests considered in the selection of VCs, including from the public, provincial or federal authorities, Indigenous communities, and other participants; and describe how community knowledge and Indigenous Knowledge and the perspectives were considered in selecting VCs. 	S6.3
7.3 Spatial and temporal boundaries	
The Impact Statement must explain how the proponent considered the information received from Indigenous communities in its definition of spatial and temporal boundaries, particularly for VCs related to effects to Indigenous Peoples.	S3.7, S6.4 Note 3
7.3.1 Spatial boundaries	
The Impact Statement must: <ul style="list-style-type: none"> describe the spatial boundaries for each VC and provide a rationale for each boundary. Spatial boundaries must be shown on maps; identify where spatial boundaries may extend to areas that are (i) on federal lands, (ii) in a province other than the one where the physical activity or the Project is being carried out, or (iii) outside Canada where effects are expected. 	S6.4, S7.2.2.2, S7.3.2.2, S7.4.2.2, ..., Note 1, 7.16.2.2, S8.2.2, S9.2.2, S10.3.1, S10.5.1, S10.6.1, S10.7.1, S10.8.1, S11.3.1, ..., Note 1, S14.8.1 Note 7
7.3.2 Temporal Boundaries	
The Impact Statement must: <ul style="list-style-type: none"> describe the temporal boundaries for each VC and provide a rationale for each boundary; and 	S5.3, S6.5, S7.2.2.2, S7.3.2.2, S7.4.2.2, ..., Note 1, 7.16.2.2, S8.2.2, S9.2.2, S10.3.1, S10.5.1, S10.6.1, S10.7.1, S10.8.1, S11.3.1, ..., Note 1, S14.8.1
7.4 Affects assessment methodology	
The Impact Statement must: <ul style="list-style-type: none"> describe in detail the Project's potential direct and indirect, adverse and positive effects for each phase of the Project, as applicable specify adverse effects within federal jurisdiction and direct or incidental adverse effects, as defined in section 2 of the IAA. 	S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18
<ul style="list-style-type: none"> identify and describe measures that are technically and economically feasible and that would mitigate the Project's adverse effects or enhancements to increase positive effects; 	S7.2.6, S7.3.6, S7.4.6, ..., Note 1, S8.6, S9.6, S10.5.4, S10.6.4, S10.7.4, S10.8.4, S11.5.4, S11.6.4, ..., Note 1, S14.8.4
<ul style="list-style-type: none"> describe any residual effects of the Project; 	S8.7, S9.7, S10.5.6, S10.6.6, S10.7.6, S10.8.6, S11.5.6, ..., Note 1, S14.8.6
<ul style="list-style-type: none"> describe how baseline data were used to inform this analysis; 	S7.2.4, S7.3.4, S7.4.4, ..., Note 1, 7.16.4, S8.4, S9.4, S10.5.3, S10.6.3, S10.7.3, S10.8.3, S11.5.3, ..., Note 1, S14.8.3
<ul style="list-style-type: none"> describe the analytical methods selected to assess effects, including clearly stated assumptions for all predictions and how each assumption has been tested, and provide clear definitions of any criteria or descriptors used; 	S7.2.2.4, S7.3.2.4, S7.4.2.4, ..., Note 1, 7.16.2.4, S8.2.4, S9.2.4
<ul style="list-style-type: none"> describe the degree of uncertainty related to the data and methods; 	S7.2.3, S7.3.3, S7.4.3, ..., Note 1, S7.16.3, S8.8, S9.8.6
<ul style="list-style-type: none"> for quantitative predictions based on models, detail model assumptions, parameters, the quality of the data and the degree of certainty of the predictions obtained, including an explanation of model calibration, validation and model performance metrics used; 	ApD-2, ApE-3, ApF, ApG, ApH-2, Apl-2, Apl-3, ApK-2, ApK-3, ApM-2, ApO-2, ApO-3
<ul style="list-style-type: none"> discuss the degree of confidence in the predictions and conclusions of the effect assessment; 	S7.2.8.3, S7.3.8.3, S7.4.8.3, ..., Note 1, S7.15.8.3, S7.16.8.2, S8.8, S9.8.6, S10.5.8, S10.6.8, S10.7.8, S10.8.8, S11.5.8, ..., Note 1, S14.8.8
<ul style="list-style-type: none"> if a detailed description of effects cannot be provided, provide a rationale for the absence of details and a general description of the potential effects and related project activities (e.g. activities and effects related to decommissioning and abandonment). The proponent should confirm the rationale with the Agency before submitting the Impact Statement; 	NA
<ul style="list-style-type: none"> for predictions that may be affected by climate change, discuss how the range of potential climates informed the assessment, including predicted changes in climate extremes; 	Apl-2, Apl-3, ApK-3, ApW-3, ApW-4
<ul style="list-style-type: none"> consider and describe the interactions among the environmental, health, social and economic effects and impacts on Indigenous Peoples and their rights; 	S10.5.3, S10.6.3, S10.7.3, S10.8.3, S11.5.3, ..., Note 1, S14.8.3

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> consider and describe the perspectives, concerns and tolerance levels of Indigenous communities and other participants; describe where and how community knowledge and Indigenous Knowledge and input were considered and incorporated into effects assessment; 	S7.1, S8.3, S9.3, S10.4, S11.4, S12.4, S13.4, S14.4, S16.4 Note 5
<ul style="list-style-type: none"> describe how GBA Plus was applied to examine differences in effects among diverse population groups and provide disaggregated data where necessary; and 	S10.5.5, S10.6.5, S10.7.5, S10.8.5, S11.5.5, Note 1, S14.8.5 ApO-1, ApX
<ul style="list-style-type: none"> describe how any ongoing or completed regional assessment in the proposed PA or any relevant strategic assessments were considered in the effects assessment. 	S6.1 ApW-4
7.5 Mitigation and enhancement measures	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe mitigation measures that are specific to each environmental effect, and changes to health, social or economic conditions, identified in the effects assessment including: mitigation practices, policies and commitments that are part of the Project design and that are required to achieve the predicted effects (e.g. project design elements that were accounted for in the effects assessment); standard mitigation practices, policies and commitments that constitute proven technically and economically feasible mitigation measures and that are to be applied as part of standard practice; and any new or innovative mitigation measures being proposed; 	S7.2.5, S7.3.5, S7.4.5, Note 1, S7.16.5, S8.6, S9.6, S10.5.4, S10.6.4, S10.7.4, S10.8.4, S11.5.4, Note 1, S14.8.4
<ul style="list-style-type: none"> propose differentiated mitigation measures, if applicable, so that adverse effects do not fall disproportionately on diverse population groups, or so they are not disadvantaged in sharing any development benefits and opportunities resulting from the Project. These mitigation measures should be developed in collaboration with those who are vulnerable and/or disadvantaged; 	Note 9
<ul style="list-style-type: none"> write mitigation measures as specific commitments that clearly describe how the proponent intends to implement them and the desired outcomes. Measures are to be specific, achievable, measurable and verifiable, and described in a manner that avoids ambiguity in intent, interpretation and implementation; identify and describe the use and application of best available technology and best environmental practice in identifying, assessing and implementing mitigation measures; describe any environmental protection plan(s) for the Project and, if applicable, the environmental management system through which the proponent will deliver this plan. The plan(s) must provide an overall perspective on how potentially adverse effects would be minimized and managed over time; identify the party responsible for the implementation of mitigation measures and the system of accountability; discuss the mechanisms the proponent would use to require its contractors and sub-contractors to comply with any commitments; 	S7.2.6, S7.3.6, S7.4.6, Note 1, S7.16.6, S8.6, S9.6, S10.5.4, S10.6.4, S10.7.4, S10.8.4, S11.5.4, Note 1, S14.8.4 ApW-2
<ul style="list-style-type: none"> describe the approach that would be taken if a mitigation measure is no longer feasible while the Project is carried out; describe how, throughout the Project's duration, the lessons learned through follow-up programs will be used to continually improve mitigation measures; 	S20.5
<ul style="list-style-type: none"> where components are to be decommissioned and abandoned, include planned activities to do so. Project components that may be decommissioned and abandoned during the construction or operation phases may include access roads, temporary laydown areas, aggregate extraction sites and other temporary sites; where appropriate, provide details regarding financial liability and compensation in place as required by regulation or company commitment in relation to decommissioning or abandonment; 	S5.19.1 T19.3-1
<ul style="list-style-type: none"> document specific suggestions raised by Indigenous communities for avoiding, mitigating or otherwise accommodating the Project's environmental, health, social and economic effects, including potential effects and impacts on Indigenous Peoples and describe whether and how these measures will be incorporated in the Project design; 	S7.1, S8.3, S9.3, S16.4
<ul style="list-style-type: none"> identify opportunities for enhancing positive effects, such as creation of local employment and infrastructure improvements; 	S10.8.4, S11.8.4, S12.8.4, S13.8.4, S14.8.4, S18
<ul style="list-style-type: none"> identify other technically and economically feasible mitigation measures that were considered but are not proposed for implementation, and explain why they were rejected. Justify any trade-offs between cost savings and effectiveness of the various forms of mitigation measures; 	S4 Note 3
<ul style="list-style-type: none"> where appropriate, describe any adaptive management plans that will be implemented to address uncertainties associated with the effectiveness of mitigation measures included in a follow-up program, including: <ul style="list-style-type: none"> identifying the expected outcomes and targets that the Adaptive Management Plan will address; describing the uncertainties that the Adaptive Management Plan will address; developing hypotheses aimed at reducing the uncertainties described above; describing the relevant baseline(s) for the Adaptive Management Plan; and describing mitigation measures to be employed and alternatives; 	NA Note 10
<ul style="list-style-type: none"> describe any relevant federal, provincial, regional or municipal legislative or regulatory frameworks (such as regulations, approvals, and programs) that will contribute to the management of effects; and how they will contribute to the management of effects. 	S7.2.2.1, S7.3.2.1, Note 1, S7.16.2.1, S8.2.1, S9.2.1, S10.2, S11.2, S12.2, S13.2, S14.2, S19
7.6 Cumulative effects assessment	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> identify the VCs that will be subject to the cumulative effects assessment, including: <ul style="list-style-type: none"> VCs for which the proponent anticipates residual effects from the Project (must be considered in the cumulative effects assessment); VCs identified as being of particular concern in the context of cumulative effects by the public and by Indigenous communities; VCs where the predicted residual effects might not indicate the need for a cumulative effects assessment, but rely heavily on uncertain mitigation measures; and VCs for which cumulative effects were identified as a concern during the Planning Phase of the impact assessment of the Project, including: <ul style="list-style-type: none"> fish and fish habitat; migratory birds; species at risk, including boreal caribou; current use of lands and resources for traditional purposes by Indigenous Peoples, including hunting, trapping, gathering, and experience of using the land (e.g. potential impacts from other mining, forestry and industrial activity, and new roads and transmission lines); and the health of Indigenous Peoples (e.g. potential changes in the surrounding watershed and downstream water quality from effluent discharge and past industrial development); include a rationale if VCs are excluded from the cumulative effects assessment; 	S15.4.3, S15.6, S15.7, S15.8, S15.9
<ul style="list-style-type: none"> identify and justify the spatial and temporal boundaries for the cumulative effect assessment for each VC selected, taking into account: <ul style="list-style-type: none"> boundaries may differ for each VC and should not be constrained by jurisdictional boundaries (for example, for downstream effects to watersheds, both the Chukuni and Wabigoon watersheds would be considered); spatial and temporal boundaries will generally be larger than the boundaries for the project effects alone, and may extend beyond Canada's jurisdiction; temporal boundaries should account for potential effects throughout the lifecycle of the Project, including decommissioning and abandonment; and spatial and temporal boundaries for VCs related to effects and impacts on Indigenous Peoples defined in collaboration with the Indigenous communities concerned; 	S15.4.1, S15.4.2, S15.6, S15.7, S15.8, S15.9

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> identify the sources of potential cumulative effects. Specify which other projects or activities that have been or will be carried out that could have resulted or could result in effects on the selected VCs within the defined boundaries and whether those effects could interact with the residual effects of the Project. Clearly explain and justify the rationale for selecting other past, existing or future projects or activities to include in the cumulative effects assessment. Project activities to be considered include, but are not limited to: <ul style="list-style-type: none"> past, existing or future mining activities or projects; mineral exploration activities near the Project; any potential extension and expansion of the processing and mine waste management in the PA as a result of other source mines being developed; timber harvest and forest management in the surrounding forest management units; transmission lines; hydroelectric facilities; and waste management practices, including landfills; consider the results of any relevant regional studies or regional assessments; 	S15.3, S15.6, S15.7, S15.8, S15.9
<ul style="list-style-type: none"> describe how the selection of boundaries and other past, existing or future projects or activities for cumulative effects assessment were informed by consultations with the public, Indigenous Peoples, lifecycle regulators, jurisdictions, federal authorities and other participants; 	S15.3
<ul style="list-style-type: none"> assess the cumulative effects for each selected VC: <ul style="list-style-type: none"> the analysis must include the effects of past, existing and future projects and physical activities in combination with the residual effects of the Project, taking into account how the effects may interact (additive, synergistic, compensatory, and masking effects); the analysis of the effects of future projects and physical activities must include a comparison of possible future scenarios with and without the Project, but must reflect the full range of cumulative effects and not just the Project's contribution; the effects of past and existing projects and physical activities can be used to put the current state of the VC into context, but must be included in the cumulative effects analysis; and cumulative effects for the same VC may need to be assessed using a hierarchy, e.g. effects on local populations of certain species and on the larger populations; 	S15.4, S15.5, S15.6, S15.7, S15.8, S15.9
<ul style="list-style-type: none"> describe technically and economically feasible mitigation measures proposed for cumulative environmental effects, and changes to health, social and economic conditions, as well as potential impacts on the rights of Indigenous Peoples, including: <ul style="list-style-type: none"> an assessment of the effectiveness of the measures proposed to mitigate the cumulative effects; and in cases where measures to mitigate these effects are beyond the control of the proponent, identify any parties that have the authority to act on these measures. In such cases, the Impact Statement must summarize any commitments by the other parties regarding implementation of the necessary measures and any associated communication plans; assess the regional implications of applying project-specific mitigation and enhancement measures, taking into account any reasonably foreseeable development in the area; and 	S15.9
<ul style="list-style-type: none"> develop a follow-up program to verify the accuracy of the assessment and the effectiveness of mitigation measures for cumulative effects. 	S20
<p>Where there is the potential for residual effects after mitigation, in relation to the ability of Indigenous Peoples to exercise their rights due to the Project, the Impact Statement must include a cumulative effects assessment for those residual effects</p>	S15.9
7.7 Extent to which adverse federal effects are significant	
<p>For adverse effects within federal jurisdiction and direct or incidental adverse effects, the Impact Statement must:</p> <ul style="list-style-type: none"> characterize adverse residual effects, and cumulative effects, using criteria and language most appropriate for the effect; consider using the following criteria, as appropriate: magnitude, geographic extent, timing, duration, frequency, reversibility, and uncertainty; the environmental, health, social and economic context within which likely effects may occur should be described and applied as part of the key criteria above, for example: <ul style="list-style-type: none"> the sensitivity and importance of affected aquatic and terrestrial species, including species at risk and species of importance for Indigenous Peoples; the sensitivity and importance of affected habitats and their functions for wildlife; the existence of standards, guidelines, tolerance levels and other sources of information to assess effects; and the potential for disproportionate residual effects for diverse population groups as per GBA Plus; characterize the extent to which the residual adverse effects within federal jurisdiction and the residual direct or incidental adverse effects are significant; characterize the extent to which the cumulative adverse effects within federal jurisdiction, and cumulative direct or incidental adverse effects, are significant; describe how the probability or likelihood of that effect occurring, and the degree of scientific uncertainty related to the data and methods used in the effects assessment, were considered in characterizing the extent of significance; indicate, among the residual and cumulative adverse effects within federal jurisdiction and direct or incidental adverse effects, those that are likely to be, to some extent, significant; justify the methodology and choice of qualitative or quantitative criteria used to determine the extent to which the residual and cumulative effects are significant; and identify and explain relevant sources of information that were used to characterize the extent to which residual and cumulative effects are significant, including how the perspectives, concerns and tolerance levels of Indigenous communities and other participants were considered. 	S8.8, S9.8, S9.8.6, S10, S11, S12, S13, S14, S15.7.2, S15.8.4, S15.9.4
8. BIOPHYSICAL ENVIRONMENT	
8.1 Meteorological environment	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the local and regional climate, in sufficient detail to highlight weather variations and characteristics of the regions affected by project activities and components, including historical records of relevant meteorological information; provide summary data and the reference to underlying data source, including unique weather stations identifiers for: <ul style="list-style-type: none"> monthly mean, maximum, and minimum temperatures; monthly mean, maximum, and minimum precipitation; typical wind speed and direction; and standard meteorological measurement to provide estimates of evaporation (e.g. using the Penman, Morton, or Meyer Methods) or estimates of monthly (or daily) evapotranspiration. The use of the pan evaporation measurements is not recommended; 	ApW-3
<ul style="list-style-type: none"> provide reference to sources (and unique weather station identifiers) for hourly meteorological data (wind speed and direction, air temperature, dew point temperature or humidity, air pressure, and precipitation data) from a minimum of one year to support dispersion modelling that captures the normal variability of meteorological conditions; and 	ApD-1, ApW-3
<ul style="list-style-type: none"> describe the influence of climate change on the local and regional climate and in the risks of extreme weather events. 	ApW-4
8.2 Geology and geological hazards	
8.2.1 Baseline conditions	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the geomorphology, topography and geotechnical characteristics of areas proposed for construction of major project components; describe the geology of the bedrock and unconsolidated sediments at an appropriate scale for the Project, including a table of geological descriptions, geological maps, geophysical information, satellite imagery, and cross-sections at the appropriate scale; identify on geological maps the location of areas of bedrock outcrops, highlighting locations that will require blasting; 	ApH-1 (S3, F3-1, F3-4)
<ul style="list-style-type: none"> identify any geological hazards that exist in the areas planned for the project facilities and infrastructure, including: <ul style="list-style-type: none"> history of seismic activity in the area, including induced earthquakes, and secondary effects such as the risk of generated landslides and liquefaction; evidence of active faults; isostatic rise or subsidence; and history of landslides, slope erosion and the potential for ground and rock instability/landslides, and subsidence during and following project activities; and 	S17 ApH-1

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> provide a characterization of instabilities caused by historical mining activities. 	ApH-1 (S1.2) Note 8
8.2.2 Effects of geology and geological hazards	
<p>The Impact Statement must describe the effects of the Project on geology and geological hazards, including:</p>	ApH-1 (S1.2) Note 8
<ul style="list-style-type: none"> describe potential effects of the Project in areas of geological instability caused by historical mining activities; and potential for increased landslides, slope erosion and potential for ground and rock instability/landslides, and subsidence during all Project phases (construction, operation, decommissioning, and abandonment). 	S17.3
8.3 Geochemistry of mined or excavated materials	
8.3.1 Baseline conditions	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> provide a geochemical characterization of expected mined or excavated materials, such as waste rock, ore, low-grade ore, pit wall materials, underground development ramps, process waste (i.e. tailings, treatment sludge), overburden, and potential construction material (i.e. mine rock, quarries, unconsolidated material) 	S5.4.4, S5.7.1 ApJ Note 3
<p>In particular:</p> <ul style="list-style-type: none"> provide a detailed summary of analytical methods used to evaluate mineralogy, acid rock drainage, neutral mine drainage, metal(loid) leaching, and the potential release of other substances 	ApJ (incl. S4)
<ul style="list-style-type: none"> describe the representativeness of samples collected for acid rock drainage and metal(loid) leaching assessment. 	ApJ
<p>Present cross-sections or block model images at an appropriate scale that include mine rock samples, geology, mineralized zones, the approximate location of all open pit and underground mine development, borehole traces and identification numbers, and a scale and legend;</p>	ApJ (incl. F5.2-1)
<ul style="list-style-type: none"> describe the representativeness of tailings solids and process water. 	ApJ, ApK-2
<p>Provide a schematic process flow chart including the location that each tested sample represents if various processing streams are tested, including with respect to cyanide destruction and desulfurization, if applicable;</p>	ApJ (F6.2-1)
<ul style="list-style-type: none"> describe the approach and methods for the prediction of acid rock drainage, neutral mine drainage, and metal(loid) leaching, including identification of potential parameters of concern based on the testing program above. 	ApJ
<ul style="list-style-type: none"> Provide initial leaching potential results based on short-term leach tests and an analysis of the representativeness of laboratory and field kinetic tests based on static test results; 	ApJ
<ul style="list-style-type: none"> describe the quality assurance/quality control procedures. Provide laboratory certificates of analysis that include information related to analytical methodology and quality assurance/quality control; and 	ApJ (incl. ApB2, ApM2, ApO)
<ul style="list-style-type: none"> provide estimates of the potential for all materials to be sources of acid drainage, neutral mine drainage, metal(loid) leaching, and the potential release of other substances, timing to its onset, and short- and long- term loading rates calculated from kinetic testing for both neutral and acidic conditions, with consideration for the use of a proxy (i.e. mine waste from on-site advanced exploration activities, analytical tests replicating acidic conditions) if kinetic tests have not produced acidic leachate, if applicable. 	ApJ, ApK-2
8.3.2 Effects to chemical release rates	
<p>The Impact Statement must describe the effects of the Project on the rate at which chemicals may be released from materials mined or excavated on site, and geological materials transported onto the site</p>	ApK-2
<ul style="list-style-type: none"> present chemical release rates from all major sources of mine or excavated materials and mine wastes <ul style="list-style-type: none"> the results of the geochemical characterization study that evaluated the potential for acid rock drainage, neutral mine drainage, and/or metal(loid) leaching and the potential release of other substances; exposure of potentially acid generating and/or metal(loid) leaching rock in pit walls; baseline groundwater and surface water quality; potentially acid-generating rock volumes and tonnage for the lifecycle of the Project; and mine waste disposal, management and mitigation methods and their effects on acid rock drainage, neutral mine drainage, metal(loid) leaching and the potential release of other substances provide a clear description and rationale for all input parameters and assumptions; provide base case (i.e. most likely, mean, median) and worst case (e.g. 75th to 90th percentile) scenarios, plus applicable sensitivity scenarios; and 	
<ul style="list-style-type: none"> describe potential effects to groundwater and surface water and sediment quality from acid rock drainage, neutral mine drainage, and/or metal(loid) leaching 	S7.7 ApK-2, ApK-3
8.3.3 Mitigation and enhancement measures	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the conceptual approach to operational testing to identify and manage potentially acid generating and/or metal(loid) leaching mine waste during mine construction and operation, and to identify non-potentially acid generating and/or metal(loid) leaching mine rock to be used for construction purposes; 	S5.5.2
<ul style="list-style-type: none"> describe methods for the prevention, monitoring, management, and control of acid rock drainage, neutral mine drainage, metal(loid) leaching, and the potential release of other substances describe tailings management strategies, including: <ul style="list-style-type: none"> characterization of tailings to be backfilled and tailings to be stored on surface the solid and liquid composition and volume of specific waste streams (including mineralogy and total organic carbon content for solid streams), and dissolved inorganic carbon, organic carbon, isotopic composition of water, and potential tracers of groundwater contamination for liquid streams; disposal sites and dimensions, including their location on the landscape following decommissioning; feasibility and effectiveness of different reclamation strategies (i.e., various wetland landscapes and dry landscapes), the use of covers and consideration of their long-term performance, including after decommissioning; measures and strategies for recycling, preventing pollution, and minimizing waste throughout the life-cycle of the Project, including information on the technologies that will be employed; identify the limits of proposed tailings treatment technologies at decommissioning; and a plain language summary of options for, and approach adopted for tailings management. 	S5.3, S5.5.2, S5.7.3, S5.19.3.1, S5.19.3.4, S5.19.3.5
8.4 Topography, soil and sediment	
8.4.1 Baseline conditions	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the terrain, soils, and sediments within the LSA and RSA, including sediment stratigraphy. Provide surficial geology maps and cross-sections of appropriate scale; describe and map landforms associated with important wildlife habitat features including elevated land forms, eskers, ridges, rock outcrops, exposed bedrock; provide a description and location of any erosion-sensitive soils and areas of ground instability; 	ApH-1
<ul style="list-style-type: none"> describe the suitability of topsoil and overburden for use in the reclamation of disturbed areas including an assessment of the acid generating potential of overburden to be used; 	S5.4.4.3 ApJ
<ul style="list-style-type: none"> describe the historical land use and the potential for contamination of soils and sediments; and describe any known or suspected soil or sediment contamination with the study area that could be re- suspended, released or otherwise disturbed as a result of the Project. 	Note 11
8.4.2 Effects to Topography, soil and sediment	
<p>The Impact Statement must describe all effects of the Project on topography, soil and sediment including:</p>	S5.19.4.1 ApO-3
<ul style="list-style-type: none"> changes to general topography and the view scape from locations of interest; potential and likelihood of problematic erosion from movement or redistribution of soil and overburden, vegetation clearing, and watercourse diversions; 	S7.7 ApL-2
<ul style="list-style-type: none"> potential and likelihood of re-suspended, releasing or otherwise disturbing known or suspected soil or sediment contamination; and 	Note 11
<ul style="list-style-type: none"> potential and likelihood of changes to soil quality and fertility, loss, and compaction. 	S5.4.1.1

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
8.5 Atmospheric, acoustic and visual environment	
8.5.1 Baseline conditions	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> characterize the ambient air quality in the PA, LSA, and RSA, and identify existing emissions and contaminant sources; provide baseline ambient air concentrations for contaminants in the LSA, in particular near key receptors compare ambient air quality results with applicable regional, provincial, and federal standards. describe deposition through either existing long term, or new monitoring data for a duration of a minimum of one year; describe the data collection methods and data source(s), including data validation and quality control methods; identify and address issues related to the quality of the monitoring data and seasonal variability in the baseline survey and determine ambient contaminant concentrations using representative monitoring data, collected over an appropriate duration and geographic scope; 	ApD-1
<ul style="list-style-type: none"> if modelling is undertaken to understand baseline ambient air quality, then describe direct and indirect sources of baseline air emissions, including mobile, stationary, and fugitive, and provide an inventory, within the care and control of the proponent, of all machines that are sources of baseline air emissions; 	NA
<ul style="list-style-type: none"> provide current ambient noise levels at key receptor points around the Project (e.g. traditional land users within or outside the property boundary, and wildlife), including the results of a baseline ambient noise survey and permissible noise levels for each receptor. The information on usual noise sources (natural or anthropogenic), their geographic extent and temporal variations must be included. justify the selection of and provide information on all noise sensitive receptors in the study area, including any foreseeable potential receptor and the distance between the receptors and the Project; 	ApE-1, ApE-2
<ul style="list-style-type: none"> describe existing ambient night-time light levels at the project site and at any other areas where project activities could have an effect on light levels; describe night-time illumination levels during different weather conditions and seasons; and 	ApG
<ul style="list-style-type: none"> describe landscapes of interest, visual screens, and other components of the visual environment, and locate them on maps. 	ApO-3
8.5.2 Effects to the atmospheric, acoustic, and visual environment	
<p>The Impact Statement must describe the effects of the Project on the atmospheric, acoustic and visual environment, including:</p> <ul style="list-style-type: none"> provide a detailed description of emission sources of air pollutants from the Project provide detailed methodology and assumptions used to estimate emissions of air pollutants released; <ul style="list-style-type: none"> all relevant emission factors should be provided and referenced; for all applicable emission sources, include the assumed tier of emission standard for each emission factor applied; and provide details of the achievement of emission standards for each mobile and stationary machine used in the Project; use atmospheric dispersion modelling to predict the fate of air pollutants resulting from project-related emission sources, with a big enough domain to identify potential air quality impacts on all sensitive receptors, and provide appropriately scaled contour map(s) plotting the predicted pollutant levels for all phases of the Project determine whether the formation of secondary pollutants (pollutants which are not directly emitted but form when other primary pollutants react in the atmosphere) resulting from the Project under assessment has the potential to raise concentrations above baseline levels – if so, identify and characterize these pollutants; provide the rationale for the choice of air quality model, including the type and magnitude of emissions, the complexity of sources, terrain and meteorology, or for why modelling is not being used to predict fate of air emissions; provide justification for all control efficiencies used to reduce emission rates of sources within the model, including details of all assumptions associated with the related mitigation measures, and their achievability; assess the uncertainty in the modeled air pollutant concentrations using relevant range of model inputs. All sources of uncertainty should be taken into account, including: <ul style="list-style-type: none"> model uncertainty, including a consideration for how uncertainty in modeled predictions may vary spatially and temporally; and uncertainty in baseline concentration estimates, in the estimates of meteorological inputs, and in estimates of source emissions and control efficiencies (from sources attributable to the Project, and externally); conduct a source contribution analysis to assess the relative contributions of project and non-project emission sources on pollutant concentrations at key receptors. The source contribution analysis should be conducted for all pollutants that exceed 10% of the relevant guidance or standard value. Emission sources should be grouped into appropriate categories; model particulate matter emissions from unpaved road dust both with and without implementation of mitigation measures during the construction and operation phases. Mitigation measures with varying control efficiency scenarios should be modeled such as 50% and 70% control efficiency; assess effects to receiving environment through: <ul style="list-style-type: none"> comparison of predicted air pollutant levels to the most stringent applicable federal or provincial air quality criteria and standards; comparison with critical thresholds (consider current, historical loadings, buffering capacity, including Acid Deposition Critical Loads); comparison with sensitive ecological receptors (consider effects thresholds of species in question); and comparison to other appropriate existing guidelines, objectives, or standards, where relevant. This includes regional and community-based air quality guidelines; 	S7.2, S7.3 ApD-2, ApD-3, ApE-3, ApO-3
<ul style="list-style-type: none"> describe changes in ambient vibration and sound levels resulting from the Project at potential receptor locations (such as the mine site, potential nearby sensitive fish habitat, and nearby locations for potential Indigenous wild rice harvesting, and around the Project as indicated above) and how they might impact the perception of nonanthropogenic sounds. Describe the anticipated frequency and timing of changes in ambient vibration and other sound levels such as changes that might occur from blasting; for project activities that result or may result in an increase in sound emissions during any phase of the Project: <ul style="list-style-type: none"> quantify sound levels at appropriate distances from any project facility and/or activities and describe, for each contributing source, the timing (e.g., hours of night-time activities), number and duration of noise events, and their sound characteristics, including frequency spectrum; provide the baseline hourly distribution of individual noise events at night compared to that of predicted individual noise events at night, at each receptor location; describe the locations and characteristics of sensitive receptors, including wildlife species at risk; describe consultation with regulators, stakeholders, community groups, landowners, and Indigenous communities regarding potential effects on the acoustic environment; and identify and justify the approach to determine the extent to which sound effects resulting from the Project are adverse; 	S7-3, S7-4, ApE-3, ApF
<ul style="list-style-type: none"> provide a description of any changes in nighttime light levels resulting from the Project: <ul style="list-style-type: none"> quantify light levels at appropriate distances from any project facilities, including the timing (e.g. night hours), frequency, duration, distribution, and character of light emissions; describe the locations and characteristics of the most sensitive receptors, including species at risk and areas favoured by Indigenous Peoples for the practice of traditional activities; and describe engagement activities and, where appropriate, provide a record of engagement with regulators, stakeholders, community groups, landowners, and Indigenous Peoples regarding potential effects on the visual environment; and describe any positive changes. 	ApG, ApM-1
8.5.3 Mitigation and enhancement measures	
<p>In particular, the Impact Statement must:</p> <ul style="list-style-type: none"> describe all methods and practices to be deployed to reduce and control emissions, including details on actions, triggers, and frequency of mitigation measures. If the best available technologies are not included in the project design, the proponent should provide a rationale for the technologies selected; 	S7.2.6, S7.3.6, S7.4.6 ApD-2, ApE-3, ApF, ApG, ApO-3, ApW-2
<ul style="list-style-type: none"> document and justify how the contaminant emission reduction efficiencies were applied in the calculation of emission rates, including details of all assumptions associated with these mitigation measures and their feasibility; provide a description of existing and planned measures to reduce odours and dust, including a description of improvements to existing infrastructure, as applicable; provide a description of participation in national or regional air emission tracking and reporting programs (e.g. National Pollutant Release Inventory) or provide rationale why participation is not required; develop and implement strategies which are compliant with regional and national commitments, such as the CCME's commitment regarding pollution prevention; 	ApD-2

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> provide a noise management plan, including identification of the noise sources, common noise mitigation measures, the performance efficiency of the noise control devices, the best practices programs, and the continuous improvement programs, and establish the need for follow-up monitoring for the purposes of validation of the model or due to any concern raised by participants, including a complaint resolution process as appropriate; and 	ApE-3
<ul style="list-style-type: none"> provide a lighting management plan, including the planning and management of lighting and of the ambient light for every activity site and the consideration of measures for the reduction of excessive light during construction and operation. 	ApG
8.6 Groundwater and surface water	
8.6.1 Baseline conditions	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> provide complete hydrometeorological information (temperature, precipitation, evapotranspiration), based on data from nearby weather stations or from a weather station on site; 	ApI-1, ApW-3
<ul style="list-style-type: none"> describe and illustrate on one or more topographic maps, at appropriate scales, the drainage basins in relation to key project components. On the map(s), identify all waterbodies and watercourses, including intermittent streams, flood risk areas, wetlands, watershed and sub-watershed boundaries, and direction of flow; 	F7.6-2 to F7.6-5 ApI-1
<ul style="list-style-type: none"> if applicable, indicate the intended locations of the new water crossings and any watercourse diversions; 	T5.8.2 F5.2-1 ApL-2 (F3.1)
<ul style="list-style-type: none"> provide a list of all waterbodies and watercourses (permanent, intermittent, and ephemeral) that may be directly or indirectly affected by the Project. Provide a table that groups waterbodies and watercourses by sub-watershed and provides the following information about each: <ul style="list-style-type: none"> type of watercourse impacted (e.g. lotic or lentic system, lake, river, pond, temporary or permanent stream); and size of the waterbodies and watercourses, as applicable (e.g. width at the ordinary high water mark, length, or area); 	ApL-1, ApL-2 (T6-1, 6-2, 6-3)
<ul style="list-style-type: none"> provide flow hydrographs and corresponding water levels for nearby streams and rivers showing the full range of seasonal and inter-annual variations, as well as seasonal low-flow for baseflow quantification; <ul style="list-style-type: none"> hydrographs may be based on data from nearby gauging stations that are representative of the ungauged site, or from gauging stations on site. Data should be site-specific, avoiding regional datasets where possible; approach used should take into account the need to provide information for use in fish habitat characterization and effects assessment as guided by the Canadian Science Advisory Secretariat's Framework for Assessing the Ecological Flow Requirements to Support Fisheries in Canada; and for the Chukuni River, describe additional context from the Lake of the Woods Control Board Policies, including any upper and lower water level limits, minimum flow requirements, and unnatural daily seasonal variation; provide stage hydrographs for lakes expected to be affected by the Project showing the full range of seasonal and inter-annual water level variations; for each waterbody and watercourse potentially affected by the Project, provide a description of ice cover, thickness and conditions, and the timing of freeze-thaw cycles; provide for each waterbody potentially affected by the Project, bathymetry, maximum and mean depths, vertical profile information, information on stratification and turnover, and sediment composition (e.g. particle size analysis and sediment quality); 	ApI-1
<ul style="list-style-type: none"> using traditional field and mapping techniques, provide a delineation and characterization of groundwater-surface water interactions, including an identification of groundwater-dependent ecosystems, wetlands, discharge and recharge areas that are potentially affected by the Project; 	ApH-1 (S4.8, S7)
<ul style="list-style-type: none"> develop a quantitative surface water balance for watersheds potentially affected by the Project, detailing water intake and outflow to the environment; 	ApI-2
<ul style="list-style-type: none"> provide baseline data for relevant physicochemical parameters and chemical constituents for surface water, groundwater, and sediment quality; describe baseline concentrations for relevant physicochemical parameters and chemical constituents in relation to applicable water quality and sediment guidelines; identify the physicochemical parameters, biological parameters, and chemical constituents for surface water that can contribute to the methylation of mercury, using established scientific sources; provide the baseline data for relevant physicochemical parameters, biological parameters and chemical constituents for surface water that can contribute to the methylation of mercury, from locations both upstream and downstream of the Project including anywhere that project effects may interact with pre-existing mercury contamination; 	ApK-1
<ul style="list-style-type: none"> identify springs and any other potable surface water resources within the LSA and RSA, and describe their current use, potential for future use, and whether their consumption has Indigenous cultural importance; identify domestic, communal or municipal water wells within the LSA and RSA, and provide information on their depth, distance from the Project, stratigraphy, screened hydrostratigraphic unit and piezometric level and capacity, and describe their current use, potential for future use, and whether their consumption has any Indigenous cultural importance; 	ApH-1 (S7.1, T2-1, F2-1)
<ul style="list-style-type: none"> identify groundwater-producing strata (coarse-grained sediments and permeable bedrock) that may be affected by the Project. Where current domestic, communal or municipal water wells access these strata, their distance from the Project must also be marked and added to the above noted baseline maps; provide a summary of key groundwater monitoring wells within the LSA and RSA used to inform the conceptual model, and identify their location, groundwater quality information and monitoring frequency. Provide representative hydrographs showing the range of seasonal and inter-annual water level variations and indicate any spatial variation in the RSA and LSA to support the assessment of groundwater effects as they relate to fish and fish habitat; describe the hydrostratigraphic units (aquifers, aquitards, aquicludes) of the hydrogeological environment in both bedrock and overburden and provide a piezometric map showing heads and the direction of groundwater flow for the various hydrostratigraphic units; describe the structural geology of the hydrogeological environment, including major faults, fracture density and orientation with respect to groundwater flow directions, and magnitudes; describe the groundwater flow boundaries of the hydrogeological environment, including groundwater divides and boundaries with surface water; provide the hydraulic properties of the hydrostratigraphic units, including data on hydraulic conductivity, specific storage, transmissivity, storativity, saturated thickness, porosity, and specific yield, as applicable; provide hydrogeological maps and cross-sections of the study area showing hydrostratigraphic units, water table elevations, potentiometric contours, interpreted groundwater flow directions, groundwater divides, and areas of recharge and discharge; 	ApH-1
<ul style="list-style-type: none"> present a conceptual model of the hydrogeological environment, including a discussion of geomorphic, hydrostratigraphic, hydrologic, climatic, and anthropogenic controls on groundwater flow; present a 3-dimensional numerical groundwater or integrated surface water-groundwater flow model developed for the PA based on the conceptual model of the hydrogeological environment; <ul style="list-style-type: none"> state limitations and assumptions in the modelling approach, including calibration methods, model validation and accuracy; calibrate the numerical model to baseline hydrogeological conditions using groundwater level and stream flow monitoring data along with the delineation and characterization of groundwater-surface water interactions from the field investigation, and provide metrics and graphs describing the quality of the calibration that was achieved and discuss how spatial variability is considered in model calibration; analyze the sensitivity of key model outputs to hydraulic properties and climatic parameters such as recharge, and describe uncertainty within the model as it relates to model assumptions; and using the calibrated numerical model, provide a baseline groundwater budget including groundwater discharge to / recharge from waterbodies and watercourses, particularly those identified in the delineation of groundwater-surface water interactions, and any anthropogenic withdrawals; 	ApH-2 Note 3
<ul style="list-style-type: none"> present a conceptual model for the hydrological environment, as appropriate to describe baseline conditions for surface waters. The model should be developed to support the assessment of potential changes to water and sediment quantity and quality in rivers, streams, lakes, springs and wetlands, with input from regulators and Indigenous communities; and 	ApI-1
<ul style="list-style-type: none"> explain how baseline data were gathered, and modelling developed, at a scale and resolution that allows for the application of results about groundwater and surface water to the assessment of interrelated VCs, notably for fish, birds and other wildlife, their habitat and their health, as well as human health, and the current use of lands and resources for traditional purposes. 	ApH-1, ApI-1, ApK-1

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
8.6.2 Effects to groundwater and surface water	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the effects of the Project on surface and ground water, including effects related to: <ul style="list-style-type: none"> project use of surface water or groundwater resources; 	S7.5, S7.6, S7.7, ApH-2, Apl-2, Apl-3, ApK-3
<ul style="list-style-type: none"> changes to water flow in waterbodies or watercourse diversions; and 	S7.6, Apl-2, Apl-3
<ul style="list-style-type: none"> discharge of water, effluent, wastewaters, or other substances to the environment; 	S7.6, S7.7, Apl-3, ApK-3
<ul style="list-style-type: none"> describe how the effects of climate change are taken into account in the evaluation of the project effects; 	S7.6, Appl-2, Appl-3, ApW-4, ApW-5
<ul style="list-style-type: none"> discuss physical changes to the English River at Manitou Falls Generating Station Dam Watershed and Chukuni River watershed, including changes to the Dixie Creek subwatershed; quantify the extent of hydrological changes that will result from disturbances to groundwater and surface water features for each phase of the Project, taking into account climate change; present an integrated site water balance model incorporating surface and groundwater fluxes to or from all major project components, for all project phases. Include estimates of surface water runoff rates for major project components; indicate the groundwater and surface water withdrawal requirements during all phases and specify: <ul style="list-style-type: none"> the timing, quantity and quality of water withdrawn from the environment (flow rates and annual volumes); any treatment carried out on these waters (e.g. addition of a tracer); and the conditions under which this water is released into the receiving environment; present key flow rates for all project components and water management structures, including inflow, outflow or surface run off from storage piles, dredge materials, contaminated material storage, and tailings management facilities; present a comprehensive site water management plan for the Project's lifecycle, including for: <ul style="list-style-type: none"> water inflows and outflows from the Project site; water diversion; process water management; storm water management; water management within the Project site; water management in the open pit and any underground mining components; open pit and underground mine flooding strategies; and drainage of water management ponds to the environment during decommissioning and abandonment; 	S7.6, S7.7, Apl-2, Apl-3
<ul style="list-style-type: none"> present a 3-dimensional numerical groundwater or integrated surface water-groundwater flow model of the hydrogeological system that incorporates all major project features such as open pits, underground workings, waste rock stockpiles, tailings management facilities, dewatering wells, and water diversion ditches; using the 3-dimensional numerical groundwater or integrated surface water-groundwater flow model: <ul style="list-style-type: none"> estimate key project fluxes, including open pit and underground mine inflow rates, open pit and underground mine dewatering rates, open pit and underground mine flooding rates, and tailings and waste storage (including in-pit and underground storage) seepage rates during operation, decommissioning, and the abandonment phases; estimate seasonal changes to surface water and groundwater regimes during the operation, decommissioning, and abandonment phases, including effects of depressurization of the basal aquifer and dewatering water bearing of surficial deposits, effects on baseflow in rivers and streams, effects on wetlands, effects on potable supplies, and effects on natural flow divides; describe the direction, quantity, timing, and receptors for any groundwater seepage associated with project facilities during the operation, decommissioning, and abandonment phases including the waste rock stockpiles, the low-grade ore stockpiles, the tailings management facility, and the flooded open pit, using particle tracking, piezometric contours, and water balance quantification; and quantify changes in groundwater discharge to surface water, or surface water recharge to groundwater, relative to the calibrated baseline conditions for the operation, decommissioning, and abandonment phases; 	ApH-2
<ul style="list-style-type: none"> clearly indicate and describe any output from the groundwater flow model used within the integrated site wide water balance and/or water quality model, or in the assessment of other VCs; 	ApH-2, Apl-2, Apl-3
<ul style="list-style-type: none"> describe the contaminants associated with the Project, their spatial and temporal locations and their potential flow paths (e.g. groundwater seepage pathways and how they relate to potential receptors). Characterize how they could affect surface and groundwater quality, including information on the source(s) of any contaminants, and their transport and fate in the hydraulic environment; describe the downgradient flow of groundwater affected by the Project, with the use of figures showing groundwater piezometric contours, drawdown contours, and particle tracking results; describe the contaminant attenuation capacity within the hydrogeological units in the PA. With this input, assess the potential for off-site groundwater and surface water contamination. Alternatively, the proponent may conservatively assume no attenuation capacity, but must still describe, in detail, potential degradation products (i.e. daughter materials) that may result from attenuation and other processes during groundwater flow; 	ApH-2
<ul style="list-style-type: none"> describe the potential changes to surface water, groundwater, or sediment quality related to the Project including: <ul style="list-style-type: none"> potential changes to surface water quality due to surface erosion and sedimentation, from the removal of vegetation and changes to riparian, wetland, and terrestrial environments; potential changes to surface water quality due to the generation and deposition of dust and particulate matter and any contaminants they contain (such as metals, mercury, methylmercury); changes to surface water and groundwater quality due to all discharges and effluents from the Project, including changes to physicochemical parameters (temperature, pH, salinity, dissolved oxygen), and relevant chemical constituents (major and minor ions, trace metals, radionuclides, nutrients, organic compounds), and taking into account predicted changes to water quantity; potential changes to surface water, groundwater, and sediment quality resulting from acid rock drainage and/or metal(oid) leaching from mined or excavated material, tailings, stockpiles, and pit walls; and potential changes to the physicochemical parameters, biological parameters, and chemical constituents for surface water that can contribute to the methylation of mercury downstream of the Project; 	S7.7, ApK-2, ApK-3
<ul style="list-style-type: none"> compare any changes to surface or groundwater quality to applicable guidelines, objectives or standards; describe the quantity and quality of all effluent streams released from the site to the receiving environment, including effluent from treatment facilities, dewatering activities, seepage, and surface run off from project components and site; compare the quality of all effluent streams to applicable guidelines, objectives or standards to better identify possible adverse effects on the receiving environment; and present the predicted mixing zone extent from each final effluent discharge point into the receiver(s) using an integrated chemical mass balance model, and taking into account predicted changes to water quantity, describe predicted worst, base, and sensitivity case changes caused by project activities to surface water, groundwater, and sediment quality in the receiving environment, for both physicochemical parameters and chemical constituents including but not limited to: <ul style="list-style-type: none"> chemical loadings associated with acid rock drainage, neutral mine drainage, and/or metal(oid) leaching seepage from piles of material and tailings (including cyanide); and watercourse and waterbody crossings, blasting, diversions, dewatering, water withdrawal, wastewater return, overflows from excavation, and surface runoff quantity and quality; compare the predicted worst, base and sensitivity case scenario changes to groundwater, surface and sediment quality to baseline and applicable guidelines, objectives or standards; provide an assessment for off-site migration pathways for impacted groundwater, and an analysis of contaminant attenuation capacities within the hydrogeological units of the project study area; 	S7.7, ApK-2, ApK-3

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> describe locations at which potential changes to water and sediment quality will be assessed and how Indigenous input was considered, including: <ul style="list-style-type: none"> all point and diffuse sources of discharges; immediate receiving environment for any point and diffuse sources of discharges from the Project; at outer boundary of mixing zone, defined as where it is anticipated the concentration of the parameters of concern reach applicable criteria within the receiver(s); where the water quality from the immediate receiving environment begins to meet Water Quality Guidelines, or background levels for that contaminant; at Project boundary; at LSA boundary; at RSA boundary; and at locations that will enable an assessment and report of predicted residual water quality changes at the Snowshoe Rapids Dam on the Chukuni River, the outlet of the Chukuni River into Pakwash Lake, the Manitou Falls Generating Station Dam on the Pakwash Lake/English River, and the confluence of the Chukuni-English River and the Wabigoon River; analyze and describe changes to surface and groundwater at a scale and resolution that allows for the application of results to the assessment of interrelated VCs, notably for fish and fish habitat and human health. 	S7.7 ApK-3
8.6.3 Mitigation and enhancement measures	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the mitigation measures for the possible effects on the quantity and quality of surface water, groundwater, and sediment, including water supply wells and provide a rationale with quantitative and qualitative evidence that explains the effectiveness of proposed measures; describe any applicable water quality treatment measures and provide evidence supporting the effectiveness of these measures provide the details of mitigation measures comprised in water management plans proposed for waterbodies and watercourses likely to be affected during all phases of the Project, including measures applicable to water use minimization; describe and justify water use for the Project and the measures that will be taken to eliminate or reduce the adverse effects, including the supply and discharge of water, and potential exchanges between watersheds. Indicate any other water sources (e.g. recycled water) for the Project and consider the possibility of reusing the water; 	S7.5.6, S7.6.6, S7.7.6
<ul style="list-style-type: none"> describe groundwater and surface water monitoring programs during, as applicable, the construction, operation, decommissioning, and abandonment phases including: <ul style="list-style-type: none"> the proposed monitoring points to assess changes to surface water quality, which should include monitoring at all point and diffuse sources of discharge and in the immediate receiving environment and at the boundaries for the outer mixing zone, the PA, the LSA, the RSA, and upstream of the confluence of the Chukuni-English and Wabigoon watersheds; the proposed monitoring points to assess changes to surface water quantity due to the Project, which should include monitoring stations to monitor effects to: <ul style="list-style-type: none"> watercourses and waterbodies with the potential for flow reductions such as: Dixie Creek, Rice Lake (Unnamed waterbody 6), Chukuni River, and Pakwash Lake; and watercourses and waterbodies downstream of watercourses or waterbodies that may be overprinted such as Tear Drop Lake (Unnamed Waterbody 1), Unnamed Watercourse 3, Unnamed Waterbody 4, Unnamed Watercourse 6A, and Unnamed Watercourse 6B; the proposed monitoring points to assess changes to groundwater quality and quantity, which should include well locations and depths; the parameters that will be measured, the duration and frequency of monitoring and reporting, the sampling protocol and analysis protocol and the quality assurance and quality control measures. Include the description of the measures that will be implemented if the criteria are exceeded; describe any specific monitoring program planned during construction, including assessment of effects before and after construction activities in order to optimize or adapt mitigation measures at the time of their application; 	S2.10, S20.2, S20.3 ApK-1
<ul style="list-style-type: none"> describe methods for the prevention, management and control of acid rock drainage, neutral mine drainage, metal(oid) leaching, and other contaminant release (e.g. cyanide, ammonia), during construction, operation, decommissioning, and abandonment phases; 	S5.3, S5.5.2, S5.6.2,S5.7.3, S5.19.3.1, S5.19.3.4, S5.19.3.5,
<ul style="list-style-type: none"> describe methods for managing the seepage and runoff from mine infrastructure, including waste rock, tailings, overburden and ore stockpiles, and haul roads and indicate how it will be collected, managed and monitored, during all phases, and, in the event of uncertainty with predictions or effectiveness of measures proposed, detail an adaptive management plan to meet requirements under section 17.4 Adaptive management plans; <ul style="list-style-type: none"> include methods for managing run-off of sulphide-rich minerals from potentially acid-generating waste rock and stockpiles (e.g. sulphate management plan); 	S5.14, 5.14.7
<ul style="list-style-type: none"> describe the methods for ensuring that the rate of methylation of mercury downstream of the Project does not increase as a result of the Project, taking into account physicochemical parameters, biological parameters, and chemical constituents of surface water that can contribute to the methylation of mercury. 	S5.14.7
8.7 Vegetation, riparian, and wetland environments	
8.7.1 Baseline conditions	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> provide a description of the biodiversity, relative abundance and distribution of vegetation species and communities of ecological, economic, or human importance with the LSA and RSA of the Project, including: <ul style="list-style-type: none"> boreal caribou habitat, wolverine habitat, bat habitat, and bird habitat including any critical habitat as described in final or draft recovery strategies or action plans for these species at risk moose habitat and fur-bearing mammal habitat including American pine marten/pine marten other vegetation species of importance to Indigenous Peoples, including wild rice describe the biodiversity metrics, biotic and abiotic indicators that are used to characterize the baseline vegetation biodiversity and discuss the rationale for their selection; provide maps, at an appropriate scale, of the vegetation species and communities of importance within the LSA, and where available, the RSA. Maps should also include areas identified, at a scale appropriate to protect confidential Indigenous Knowledge, as either sensitive or culturally important to Indigenous communities, if communities have granted permission to share them; describe the current level of both anthropogenic and natural (e.g. fire, flood, drought) disturbance associated with vegetation, including a description of level of habitat fragmentation and loss, historical and current disturbance, any proximate activities that have resulted in changes to fire regimes (e.g. fire suppression, flooding, insect infestations); 	ApM-1, ApM-2
<ul style="list-style-type: none"> describe the use of local vegetation for medicinal purposes, or as a source of country foods (traditional foods) including wild rice, and whether its consumption has any Indigenous cultural importance; <ul style="list-style-type: none"> describe any existing weed species or other invasive species within the local study area that have the potential to spread into areas used for wild rice harvesting; 	S7.8.4, S7.9 ApM-1 (S10), ApP-1, ApP-2

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> describe the shoreline, banks, current and future flood risk areas, and wetland catchment boundaries; quantify, describe, and map riparian areas within the LSA and RSA potentially affected by the Project; use the Ontario Land Cover Compilation v.2.0 to quantify, describe and map wetlands (e.g. swamps, fens, marshes, bogs) within the LSA and RSA potentially affected by the Project, in the context of: <ul style="list-style-type: none"> wetland class, ecological community type, and conservation status; biodiversity; wetland habitat that provides important functions for migratory birds, species at risk, and species of importance to Indigenous Peoples; peatland volume; abundance at local, regional, and provincial scales; distribution; and current level of disturbance; determine whether these wetlands are within a geographic area of Canada where wetland loss or degradation has reached critical levels, or considered ecologically, socially, or economically important to a region; identify and describe wetland capacities to perform hydrological and water quality functions, provide for wildlife and wildlife habitat or other ecological functions, such as carbon sequestration; provide a wetland functions assessment in accordance with the guiding principles of Wetland Ecological Functions Assessment: An Overview of Approaches or any subsequent approved guidelines by which to determine the most appropriate functions assessment methodology to use provide a rationale for the wetland functions assessment method chosen and submit complete data sets from any survey sites, including geospatial data files and sources; determine if other wetland conservation policies, regulations or wetland compensation guidelines apply (contact provincial and/or local government authorities) 	ApM-2 (S3.1.5) Note 12
<ul style="list-style-type: none"> define an LSA that takes into account watershed area and hydrological connectivity of wetlands within or bisected by the PA; and identify an RSA of sufficient size to capture effects to wetlands within the larger drainage area and include wetlands located outside of the LSA that may be affected by hydrological changes as a result of cumulative effects. 	S7.8.2.2
8.7.2 Effects of vegetation, riparian, and wetland environments	
<p>The Impact Statement must describe the effects of the Project on vegetation and the riparian and wetland environments, including:</p> <ul style="list-style-type: none"> describe the key indicators used to assess project effects and the sensitivity of vegetation communities, wetlands, and riparian and terrestrial environments to disturbance. Provide a rationale for their selection, including a clear connection to indicators used to characterize baseline conditions; quantify the area of vegetation communities, riparian, wetland, and terrestrial environments, that may be cleared or otherwise disturbed within the study area during all phases of the Project, including a description of the disturbance and changes to: <ul style="list-style-type: none"> interior to edge habitat ratios; the availability of rare habitat; and functions within the remaining vegetation or wetland complex; describe changes related to landscape disturbance, including loss and fragmentation of habitats, alteration of riparian areas, including buffers or setbacks and project effects on areas of soil or ground instability; 	S7.8.7
<ul style="list-style-type: none"> describe effects related to potential introduction of weed species or invasive species in areas used for wild rice gathering; describe potential effects from sulphate discharges or unplanned leaching to any surface waters containing wild rice (<i>Manoomin</i>, <i>Zizania palustris</i> L.) above background values or 10 mg/L; 	S7.9.6, S7.9.7
<ul style="list-style-type: none"> describe effects onto the biodiversity of riparian, wetland, and terrestrial environments, including effects from fragmentation and changes to regional biodiversity; describe potential changes to riparian, wetland, and terrestrial environments due to activities that may affect topography, soil erosion, compaction, and productivity, contamination, bank slopes, and suspension of sediment, or due to any contaminants of concern potentially associated with the Project that may affect vegetation, soil, sediment, or water; 	S7.8.7
<ul style="list-style-type: none"> describe any known or suspected soil contamination within the LSA that could be re-suspended, released or otherwise disturbed as a result of the Project; 	Note 11
<ul style="list-style-type: none"> describe any hydrological or water flow changes, either permanent or temporary, that could alter moisture regimes or drainage conditions, and describe the effects on vegetation and wetlands, including consideration of biogeochemical conditions suitable for methylmercury production; and describe any changes to or loss of wetland function, including consideration of ecological (e.g. hydrological, biogeochemical cycling, habitat, and climate functions) and socioeconomic functions of wetlands. Describe and justify the methodology used to assess the effects. 	S7.8.7
8.7.3 Mitigation and enhancement measures	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the construction methods used to cross wetlands and other sensitive habitats, and the criteria for determination of techniques proposed for each crossing, including the locations where trenchless crossing methods will be employed; describe the ways of avoiding or reducing the temporary or permanent adverse effects on wetlands and riparian habitats; describe the width of the construction right-of-way and the permanent right-of-way, including the locations where the right-of-way will be narrowed to eliminate or reduce the adverse effects; describe the temporary facilities and infrastructure, and the considerations taken for minimizing the adverse effects, namely the preferred location and management measures; describe the proposed measures to mitigate bank erosion, including measures to eliminate the potential for erosion, such as bank stabilization using vegetation; describe the vegetation standards and controls that will be deployed during construction and operation of the Project; describe the measures allowing identification of invasive species or other undesirable introduced species, avoid their propagation and control their spread into areas used for wild rice gathering during all phases of the Project, including the necessity of preconstruction surveys to identify any high density areas; identify the criteria and circumstances of application of chemical, biological, or mechanical control methods as well as the relevant regulations and determine the adverse effects associated with control methods; describe the selection of plant species to be conserved and planted in order to promote vegetation communities with low natural growth; <ul style="list-style-type: none"> explain how avoidance of wetlands and riparian habitats was considered, namely by considering other locations for project components and activities; explain how mitigation measures consider the natural succession and the variability of the environment over time; and describe proposed compensation measures 	S7.8.7 T5.8.2 F5.2-1 Note 13
<ul style="list-style-type: none"> describe any reclamation and rehabilitation procedures proposed as mitigation measures, including: <ul style="list-style-type: none"> revegetation techniques and the locations where they would be implemented; selection of plant species to be maintained and planted to promote return to a natural ecosystem, including consideration for Indigenous use, during operation and upon reclamation, rehabilitation, and integration of the reclaimed landscape with the regional landscape; Native and Indigenous species adapted to the local conditions should be used when the purpose of revegetation is to naturalize or regenerate the area; the expected timelines, from an ecological perspective, for establishment and recovery of vegetation communities and the expected differences in community composition and structure. Identify the information sources on which the predictions rely, such as evidence from peer-reviewed scientific literature; any sources of uncertainty with respect to the anticipated effectiveness of reclamation and rehabilitation. Explain how uncertainty was taken into account in the predictions; and reclamation and rehabilitation standards to be used to evaluate ecological equivalency of post-operation reclaimed landscapes, in consultation with Indigenous communities; describe the soil treatment methods to eliminate or reduce the adverse effects on the soils and materials in the root area, including recovery techniques (e.g. soil stripping including the proposed width, stump removal, and other soil treatment techniques), soil separation maintenance measures, control measures for wind and water erosion, work shutdown procedures in case of wet conditions, and soil settlement prevention measures; and 	S5.19.1, S5.19.4.2

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> describe how to locate pre-existing soil or sediment contamination, the mitigation and monitoring measures that will be undertaken in this regard, and the applicable regulatory restoration measures. 	Note 11
8.8 Fish and fish habitat	
8.8.1 Baseline conditions	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> prepare a list of all waterbodies and watercourses (permanent and intermittent) that may be directly or indirectly affected by the Project and provide: <ul style="list-style-type: none"> type of waterbody or watercourse; size and depths of the waterbody or watercourse, supported by channel cross sections, long profiles and/or bathymetric surveys where appropriate; streamflow types, Strahler stream order and streamflow characteristics; substrate type, emergent and submerged aquatic vegetation type and presence, and barriers to fish; description of any proposed in-water work; and for crossings, describe the anticipated method of crossing; 	S8.4, S8.7 T5.8.2, T8.7-1, T8.7-2, F5.2-1, F8.4-2 ApL-1, ApL-2
<ul style="list-style-type: none"> for each potentially affected waterbody or watercourse that has the potential to be frequented by fish, provide the location and area of potential and confirmed fish habitat and a detailed assessment of physical and biological habitat characteristics. Present information as maps using satellite imagery overlaid with relevant information and text description, with associated summary tables. Relevant physical and biological habitat characteristics for fish habitat include: <ul style="list-style-type: none"> surface and ground water characteristics; baseline extent of habitat disturbance (e.g. fragmentation); habitat use or suitability for fish and aquatic species present, including Lake Whitefish, Walleye, Lake Trout, Lake Sturgeon, and other species identified as important by Indigenous Peoples, habitat function (e.g. spawning, nursery, growth, prey, invertebrate population, food availability, foraging, migration, cover habitat, thermal and overwintering habitat), and sensitive times for these activities; and substrate type, substrate distribution and transport characteristics, aquatic vegetation, riparian vegetation, bank stability, light penetration, presence of woody debris, presence of beaver dams, stream segment type (riffle, run, pool) and Strahler stream order, natural or anthropogenic barriers to fish passage, and geomorphological features and processes; 	S8.4 T8.4-2 F8.4-3 ApL-1, ApL-2
<ul style="list-style-type: none"> for each potentially affected waterbody or watercourse, provide a detailed description of potentially affected fish species and populations within the freshwater environment; <ul style="list-style-type: none"> where data are used to generate biodiversity metrics (e.g. abundance, richness, diversity, density), provide rationale on the choice of metrics based on their applicability for use in the effects assessment and associated follow-up, if applicable; 	S8.4 T8.4-1 F8.4-6 ApL-1, ApL-2
<ul style="list-style-type: none"> describe parameters and ecological processes relevant to predicted effects on fish and aquatic species listed above. For example, it may be necessary to establish a broader ecological baseline if the Project affects a spawning area for a migratory species, but does not affect the larger area they depend on for life processes. Relevant parameters and ecological process may include: migratory patterns, food webs and trophic levels, structural and functional linkages (e.g. predator-prey interactions), life history and population dynamics, sensitive habitats and periods, behaviour, or other relevant ecological processes that fish depend on to carry out their life history; <ul style="list-style-type: none"> use either a qualitative or a quantitative approach to characterize ecological processes, as appropriate, and include a rationale to support the selected approach; identify and describe the data sources used, including information on data collection (e.g. gear and catch methods, location of sampling stations, date of catches, date of surveys, species surveyed, size and lifecycle stage, catch per unit effort). It is recommended that the information be presented in the form of maps and tables; 	ApL-1, ApL-2
<ul style="list-style-type: none"> provide baseline measurements of contaminants in fish and aquatic species, including a characterization of methylmercury levels in fish tissue in fish harvested by Indigenous communities 	S8.4.3 F8.4.7, F8.4-8, F8.4-9 ApL-1 (ApC)
<ul style="list-style-type: none"> describe the use of fish as country foods, bait, or for other traditional purposes, including a description of the particular species of importance including walleye, lake whitefish, lake trout, lake sturgeon, and other species identified as important by Indigenous Peoples and whether its consumption has cultural importance for Indigenous Peoples, including medicinal use. All sites used in the LSA or historically important sites for the collection of country foods must be identified and mapped, such as important fishing sites, except in cases where the information is deemed confidential by Indigenous Peoples; 	S8.3 ApL-2
<ul style="list-style-type: none"> provide a summary of existing studies and research on potential effects of noise and vibrations resulting from blasting (above ground and underground) on potentially affected aquatic species including, but not limited to, walleye, lake whitefish, lake trout, and lake sturgeon; and including behavioural impacts, in the freshwater environment from all species at different life stages; 	S8.2.5
<ul style="list-style-type: none"> describe any existing, designated or proposed special freshwater areas, such as species at risk critical habitat or ecological reserves, within or in proximity to the project location or that could be affected by routine project operation; and identify and describe sensitive fish habitat areas within the LSA and RSA and include maps that demonstrate proximity of these areas. 	NA
8.8.2 Effects to fish and fish habitat	
<p>For each waterbody and watercourse affected by the Project that has the potential to be frequented by fish (directly or indirectly) the following must be documented and considered in the determination of effects:</p> <ul style="list-style-type: none"> changes in groundwater and surface water conditions, and their effects on geomorphological hydrodynamic conditions and aquatic habitats (e.g. altering sediment transport dynamic and substrate characteristics, dynamic imbalance, long-term bank instability, silting of spawning grounds), including direct and indirect effects from habitat fragmentation; 	S8 ApL-2, Apl-3
<ul style="list-style-type: none"> changes in groundwater and surface water conditions and their effects on aquatic habitat and life cycle activities (e.g. reproduction rearing, feeding, migration and habitat connectivity, summer and winter refuge) and any changes to aquatic invertebrate communities, including any flow reductions and lowering of water levels in potentially affected watercourses and waterbodies such as Unnamed Waterbody 2, Unnamed Watercourse 1, Unnamed Watercourse 6A, Rice Lake (Unnamed Waterbody 6), Unnamed Watercourse 6, Dixie Creek, Chukuni River, and Pakwash Lake that result from loss of drainage basin or groundwater drawdown; 	S8 F8.7-1 ApL-2, Apl-3, ApD-2
<ul style="list-style-type: none"> changes to riparian areas that could affect fish and fish habitat, aquatic species at risk and productivity; 	S8 F8.7-1 ApL-2
<ul style="list-style-type: none"> any alteration to accessibility or use of habitat, including residence and critical habitat of aquatic species at risk; 	S8 F8.7-1 ApL-2
<ul style="list-style-type: none"> risk of fish mortality, including that associated with: <ul style="list-style-type: none"> noise and vibrations caused by project activities (e.g. blasting above and underground) in or near the aquatic environment; and entrapment, impingement or entrainment; 	S8 ApL-2
<ul style="list-style-type: none"> potential introduction of aquatic invasive species, including pathogens, through project activities, including relocation of species, including discussion of the frequency of those activities; 	S8.6
<ul style="list-style-type: none"> any proposed fish relocation activities and the timing and methodology that will be used to undertake each fish relocation; 	S8
<ul style="list-style-type: none"> changes to water quality and quantity, including: <ul style="list-style-type: none"> potential introduction of deleterious substances (e.g. sediment, project-related contaminants); potential discharges to the aquatic environment of waters used for hydrostatic testing; and effluent at the discharge point and in the receiving environment, and seepage and runoff from the mine not discharged through a discharge point (referencing the assessment of water quality in section 8.6 Groundwater and surface water); 	S7.7, S8 ApK-3
<ul style="list-style-type: none"> compare predicted water quality for all project phases and at all key locations in the receiving environment to: applicable water quality guidelines, site-specific objectives or benchmarks, relevant toxicity test results (either site-specific or published); and/or other applicable methods. 	S7.7 ApK-3
<ul style="list-style-type: none"> changes in potential contaminant levels in harvested species and their prey, with a focus on traditional foods harvested by Indigenous Peoples, such as methylmercury levels in fish; 	S8.7
<ul style="list-style-type: none"> changes in access to the area and increased access to fishing; 	S7.13.7

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> for linear project components, describe and justify watercourse-crossing techniques to be used and the criteria for determining the techniques proposed for each watercourse crossing; <ul style="list-style-type: none"> describe how the watercourse crossing techniques consider long-term geomorphological processes (e.g. erosion and deposition); and provide evidence as to how the watercourse crossings will provide fish passage; and any other changes resulting from the Project that may affect fish and fish habitat. 	ApL-2 (S5.5, T1-1)
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> use a Pathways of Effects approach to determine potential effects to fish and fish habitat; 	S8 ApL-2
<ul style="list-style-type: none"> delineate anticipated harmful alteration, disruption or destruction of fish habitat (temporary or permanent) in terms of area, habitat type, sensitivity of habitat, and impact (e.g. magnitude, intensity and persistence). Habitat losses must be clearly located and presented on a map at appropriate scales and in a table with area of loss represented; 	S8.5 T8.5-2 to T8.5-4
<ul style="list-style-type: none"> delineate anticipated death of fish by means other than fishing; 	S8.7 F8.7-1 T8.7-1, T8.7-2 ApL-2
<ul style="list-style-type: none"> describe potential effects to fish and fish habitat, based on specific life history processes, population status, resilience in the face of change, dependence on specific habitat features, or limiting ecological processes or variables; 	NA
<ul style="list-style-type: none"> include an examination of the correlation between construction periods and sensitive periods for fish (e.g. reproduction), key fisheries windows for freshwater and anadromous/catadromous species, and any potential effects due to overlapping periods; 	S8 ApL-2
<ul style="list-style-type: none"> describe potential effects to fish from contaminants, including from bioaccumulation downstream of the Project. Include a comparison of predicted water quality for all project phases at all key locations in the receiving environment to applicable water quality guidelines, site-specific objectives or benchmarks, and relevant toxicity test results (either site-specific or published), or other applicable methods. Describe potential effects from contamination on fish and other aquatic species' behaviour, distribution, abundance, and migration patterns; 	S8.6 ApL-2 (S7.3)
<ul style="list-style-type: none"> effects should be predicted or modeled using baseline measurements of contaminants in the complete food web (including water, invertebrates and prey fish), and by carbon and nitrogen stable isotope measurements in fish and the complete fish food web; 	S8.7 ApK-3
<ul style="list-style-type: none"> describe how the Project's effects on aquatic biodiversity may contribute to changes in regional biodiversity and effects on local and regional ecosystems including impacts from changing water levels on the riparian zone; 	S8.4, S8.7 ApL-1 (ApC)
<ul style="list-style-type: none"> describe potential effects on fish behaviour, distribution, abundance, and migration patterns; 	S8 ApL-2
<ul style="list-style-type: none"> describe tolerance thresholds for potential adverse effects that the Indigenous Peoples have identified, and how they were considered in the assessment; 	S8 ApL-2
<ul style="list-style-type: none"> describe potential changes to fish populations in relation to any local Fisheries Management Objectives set by the Province of Ontario, as context for local fish and fish habitat priorities and needs; 	S8.3
<ul style="list-style-type: none"> describe any need for a <i>Fisheries Act</i> authorization and/or a <i>SARA</i> permit and describe any consideration of Fisheries and Oceans Canada guidance documents; and 	ApL-2
<ul style="list-style-type: none"> describe any positive changes, such as habitat creation and, where applicable, provide information on re-stocking (including the number of fish) or creation of new fish habitat (including the new area created), and provide maps for proposed locations. 	S8.2.1
<p>8.8.3 Mitigation and enhancement measures</p>	
<p>The Impact Statement must describe the mitigation measures for the potential effects on fish and fish habitat, including:</p> <ul style="list-style-type: none"> all standard measures, codes of practice, policies, and commitments regarding mitigation that constitute technical and economically feasible proven mitigation measures and that will be applied in common practice, regardless of the location, as well as any new or innovative mitigation measure proposed; 	S8.6 ApL-2 (S5, S7)
<ul style="list-style-type: none"> measures to prevent or mitigate the risk of harmful alteration, disruption or destruction of fish, fish habitat, or death of fish caused by any project activity, including during the sensitive periods and in the sensitive locations (e.g. spawning and migration) for fish and other aquatic species; 	S8.6 ApL-2 (S5, S7)
<ul style="list-style-type: none"> provide details on the potential salvage or relocation of fish and other aquatic species from potentially affected watercourses and waterbodies, prior to their overprinting, draining or dewatering, and construction of diversion channels; 	S8.6 ApL-2
<ul style="list-style-type: none"> measures applicable to all water crossings, intakes, and outflows including how they would be maintained following construction of the Project; 	S8.6 ApL-2 (S5.5)
<ul style="list-style-type: none"> describe the conditions on which crossings of watercourses and riparian areas would be restored and maintained after construction of the Project; 	S8.6 ApL-2 (S5.5)
<ul style="list-style-type: none"> measures to mitigate sensory disturbance and functional fish habitat loss that it may cause, including in relation to blasting; 	S8.6 ApL-2 (S5.1.2)
<ul style="list-style-type: none"> measures recommended to avoid fish mortality, for example, during use of explosives in the aquatic environment or nearby, during fish salvage or relocation activities, or by fish impingement and entrainment during pumping and water withdrawal operations (e.g. during the construction of temporary structures and of hydrostatic tests) or transfer between waterbodies; 	S8.6 ApL-2 (S5.1.2, S7)
<ul style="list-style-type: none"> measures to prevent the deposit of substances harmful to fish in the aquatic environment; 	S8.6 ApL-2 (S5, S7)
<ul style="list-style-type: none"> measures for impacted riparian or aquatic environments; 	S8.6 ApL-2 (S5, S7)
<ul style="list-style-type: none"> describe the criteria for assessment of the successful restoration of fish-bearing watercourses, as well as the mode and timing and the conditions of documentation of this assessment; 	ApL-2 (T7-1, S8.2, T8-6)
<ul style="list-style-type: none"> mitigation measures to be applied during hydrostatic tests, including for water withdrawal and discharge activities; 	S8.6 ApL-2 (S5, S7)
<ul style="list-style-type: none"> measures to prevent the introduction and intrusion of invasive aquatic species during work in or near the aquatic environment; 	S8.6 ApL-2 (S7)
<ul style="list-style-type: none"> measures to prevent the creation of fish passage barriers as a result of the Project; 	S8.6 ApL-2 (S7)
<ul style="list-style-type: none"> measures and plans to offset or compensate for any loss in productivity of fish populations and fish habitat as a result of the Project; 	S8.6 ApL-2 (S8, S9)
<ul style="list-style-type: none"> describe how environmental protection plans will address any applicable federal and provincial policies with respect to fish habitat; and 	S8.6 ApL-2 (S7)
<ul style="list-style-type: none"> describe how the mitigation measures are consistent with any applicable recovery strategy, action plan or management plan. 	NA
<p>The proponent must refer to Fisheries and Oceans Canada guidance and explain how it was applied to the assessment.</p>	ApL-2 (T1-1)
<p>8.9 Birds, migratory birds, and their habitat</p>	
<p>8.9.1 Baseline conditions</p>	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> identify species or groups that may be affected differently by the Project and may require different mitigation measures, and, where possible, avoid collapsing data into diversity metrics or narrowing to an indicator species; the following groupings should be considered as unique VCs with rationale provided where groups are not included as unique VCs: <ul style="list-style-type: none"> raptors, such as, hawks, eagles, falcons; waterfowl, such as, ducks, geese, swans; waterbirds, such as, loons, gulls, terns; marshbirds, such as grebes, rails, herons, cranes; shorebirds, such as sandpipers, plovers, snipes; forest birds, such as warblers, vireos, thrushes; other land birds, such as, owls, swallows, kingfishers; each migratory bird species at risk as an individual VC, including barn swallow, bank swallow, eastern whip-poor-will, common nighthawk, Canada warbler, eastern wood-pewee, evening grosbeak, olive-sided flycatcher, lesser yellowlegs, yellow rail, and red-necked phalarope any bird species of importance to Indigenous Peoples important habitats associated with species at risk birds and with species of importance to Indigenous Peoples 	S9.6 ApM-2 (S1.2, S2.1)
<ul style="list-style-type: none"> identify any applicable Bird Conservation Regions and Bird Conservation Region strategies; 	S9.4

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> provide baseline information that is representative of current conditions, with a justification if additional studies are not necessary to improve confidence in the prediction of residual effects and the appropriate selection of mitigation; 	S9.4 ApM-1, AppM-2
<ul style="list-style-type: none"> provide an estimate of year-round bird use of the LSA (e.g. winter, spring migration, breeding season, fall migration), based on data from existing sources and surveys; 	ApM-1
<ul style="list-style-type: none"> describe and map the general biodiversity of bird species and their habitats that are found or are likely to be found in the LSA and RSA based on available information from a desktop analysis, supplemented by field data if necessary to build confidence in assumptions; 	ApM-2 (AttB)
<ul style="list-style-type: none"> identify the metrics, and biotic and abiotic indicators that are used to characterize the baseline conditions and discuss the rationale for their selection; 	ApM-1
<ul style="list-style-type: none"> for the bird species and groups listed above and for any other bird species or groups that use the LSA at any time of year that are likely to be affected, describe their: <ul style="list-style-type: none"> abundance (including relative abundance in each habitat type), population status, and distribution; life cycle, seasonal ranges, migration, movements; frequency and timing of occurrence; seasonal and annual variation in abundance, distribution and habitat use; habitat association(s) and requirements for all relevant life cycle stages; and sensitive periods (e.g. seasonal, time of day); 	S9.6 ApM-1, ApM-2 (S2.1)
<ul style="list-style-type: none"> describe and map the habitat and habitat features found in the PA, LSA, and RSA that are associated with the presence of those bird species and groups that are likely to be affected, based on the best available existing information (e.g. land cover types, vegetation), supplemented by field data as appropriate to enable demonstration of sufficient data for baseline characterization to the extent necessary to be confident in the selection of appropriate mitigation and prediction of residual effects; 	ApM-2
<ul style="list-style-type: none"> for each bird species of conservation concern identified above, locate on an appropriately scaled map the potential habitats, survey locations, records of the species, residences, and critical habitat, except where locations and records are considered sensitive information: <ul style="list-style-type: none"> identify federal species at risk/critical habitat in the study area; identify migratory birds listed under the <i>Species at Risk Act</i> to which the Species at Risk Protection Statement applies; identify migratory birds that are provincial species at risk and their status under <i>Ontario's Endangered Species Act</i>; identify any species assessed as at risk by the Committee on the Status of Endangered Wildlife (COSEWIC) in Canada; identify any sites that are likely to be sensitive locations and habitat for birds or environmentally significant areas such as Areas of Natural and Scientific Interest; and illustrate on the map the Project's footprint, identifying temporary and permanent infrastructure; 	S9 AppM-2
<ul style="list-style-type: none"> locate the highest concentrations or areas of use by species; 	ApM-2 (AttD)
<ul style="list-style-type: none"> describe the source of the data, data collection methods, and provide a rationale for chosen analysis and modelling approaches 	ApM-2 (S1.2, S2.1)
<ul style="list-style-type: none"> where predictive modelling is used to portray baseline conditions and estimates of project effects, provide the explanatory data (e.g. covariates such as associated land cover). Explanatory data should be shown to be sufficient for representing the following sources of variation where applicable: spatial variation in land cover composition, soil type, geomorphology, hydrological processes, and inter- annual and intra-annual climate variability. 	ApM-2 (S2.1)
8.9.2 Effects to birds, migratory birds, and their habitat	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the interaction between the Project and birds, migratory birds, and their habitat, for all phases of the Project, including from: <ul style="list-style-type: none"> site preparation, vegetation removal, particularly of habitats important for nesting, foraging, staging, overwintering, or that act as movement corridors; deposit of harmful substances in waters that are frequented by birds and changes to water quality; changes to the aquatic flow regime and sediment load; construction and operation of tailings disposal facilities (i.e. tailings ponds), wastewater ponds, or other ponds containing process liquids or substances harmful to birds; construction and operation of structures; changes to the atmospheric, acoustic, and visual environment (e.g. noise, vibration, lighting, air emissions, and dust); site reclamation; and any project activities that may occur during critical periods and/or restricted activity periods for migratory and non-migratory birds, including species at risk; 	S9.5 to S9.7
<ul style="list-style-type: none"> provide the relative abundance of habitat in the PA, LSA, and RSA including the percentage of total lost in each study area; 	S9.7.1
<ul style="list-style-type: none"> describe the potential effects of the Project on birds (migratory and non-migratory birds), their nest and eggs, including, but not limited to, from: <ul style="list-style-type: none"> short and long-term changes to habitats important for breeding, foraging, migration, overwintering, rearing and moulting and to movement corridors between habitat, and from habitat loss, fragmentation and structural change; changes in biodiversity, abundance and density of the avian community that utilize various habitat types or ecosystems; changes to mortality risk, including as a result of collision of birds (migratory and non-migratory) with project infrastructure, buildings, overhead lines, vehicles, as a result of light attraction and from indirect effects, such as increased movement of predators or access to hunting; and increased disturbance (e.g. sound, artificial light, presence of workers) considering the critical periods for the birds, including breeding, migration, and overwintering; 	S9.7
<ul style="list-style-type: none"> describe the activities most likely to result in disturbance, injury or take of birds (migratory and non-migratory), their nests and eggs, such as vegetation clearing, increased noise from industrial machinery, and indicate the timing window for these activities, the amount, duration, frequency, and timing of disturbances, and whether or not those activities would be permanent or non-permanent in the environment; and 	S9.7
<ul style="list-style-type: none"> describe, using evidence, the available habitat, if any, in the LSA and RSA for the relocation of displaced birds. 	S9.7.3
8.9.3 Mitigation and enhancement measures	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> ensure mitigation described for birds that are species at risk is consistent with any applicable recovery strategies (avoid, minimize, restore onsite, offset); <ul style="list-style-type: none"> for bird species at risk that have recovery strategies, the proponent must demonstrate how relevant recovery strategies were considered as part of broader mitigation efforts; 	S9.6
<ul style="list-style-type: none"> describe any protections provided to species through provincial regulatory mechanisms under <i>Ontario's Endangered Species Act</i>, <i>Fish and Wildlife Conservation Act</i>, or other provincial legislation; 	S9.2.1
<ul style="list-style-type: none"> describe the measures to mitigate adverse effects to migratory and non-migratory birds and their habitat, including their eggs and nests; describe the measures to prevent and mitigate the risk of harmful, destructive or disruptive activities during sensitive periods and in sensitive locations (e.g. breeding bird season, migration and nesting) for birds, their nests and their eggs, or areas frequented by birds, such as avoiding lights at night during key migration peaks, avoiding excessive loud noises, vibration or blasting during breeding season; demonstrate how the proponent considered the timing of vegetation removal and construction to be outside the main breeding season; 	S9.6 T9.6-1
<ul style="list-style-type: none"> describe measures for preventing the deposit of substances harmful to migratory birds in areas frequented by migratory birds; describe technologies and approaches to minimize the impacts of tailing ponds on migratory birds that may come into contact with process affected waters; 	S5.6.2, S9.2.4.2, S9.5.2
<ul style="list-style-type: none"> describe any feasible options for compensation or offsetting if habitat will be lost and is a limiting feature for the species in the RSA, and propose whether and how any habitat losses will be offset to the Agency and federal experts prior to submitting the Impact Statement; and 	NA
<ul style="list-style-type: none"> for bank swallow, take measures to prevent future establishment on soft banks, following the Ontario Ministry of Natural Resources and Forestry's Best Management Practices for the Protection, Creation and Maintenance of Bank Swallow Habitat in Ontario. 	S9.7.5.1

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
8.10 Terrestrial wildlife and wildlife habitat	
8.10.1 Baseline conditions	
The Impact Statement must: <ul style="list-style-type: none"> provide baseline information that is representative of current conditions, with justification (statistical analyses, simulations, organized reasoning) if additional studies are not necessary to improve confidence in the prediction of residual effects and the appropriate selection of mitigation; 	S7.11.4, ApM-1, ApM-2
<ul style="list-style-type: none"> describe and map the general biodiversity of terrestrial wildlife species (amphibians, reptiles, mammals) and wildlife habitats that are found or are likely to be found in the study area; 	S7.11.4 ApM-1, ApM-2 Note 12
<ul style="list-style-type: none"> identify wildlife species, other than avian species, of importance to Indigenous Peoples, within the study area, that are likely to be directly or indirectly affected, and describe, in general, for each species or group: <ul style="list-style-type: none"> distribution and location; abundance and population status; lifecycle; known residences; seasonal ranges, migration and movements; habitat requirements; sensitive periods (e.g. seasonal, diurnal, and nocturnal); and provide a map showing the highest concentrations or areas of use from all available data sources by species and important habitat (specifically for moose, provide a map of moose aquatic feeding areas, late winter habitat and known calving areas); 	S7.9.4, S7.10.4, S7.11.4.5, S7.11.6, ApM-1, ApM-2 Note 12
<ul style="list-style-type: none"> identify the metrics and biotic and abiotic indicators that are used to characterize the baseline conditions (e.g. population size, recruitment rates) and discuss the rationale for their selection; 	S7.8.4, S7.9.4, S7.10.4, S7.11.4 ApM-1, ApM-2
<ul style="list-style-type: none"> describe the use of wildlife as a source of country foods (traditional foods) and whether its consumption has Indigenous cultural use and value, including for medicinal purposes; 	ApM-2 (T1-2)
<ul style="list-style-type: none"> describe the use and harvesting of fur-bearing species and whether its harvesting has Indigenous cultural or socio-economic value; <ul style="list-style-type: none"> describe any locations within the study area that might constitute sensitive areas for terrestrial wildlife and show on maps, such as: ecological reserves, wildlife management areas, established or proposed sanctuaries and protected areas, in proximity to the Project location or that could be affected by routine project operations; and any lands in the study area that might constitute sensitive areas and habitat for wildlife; 	S7.11.4, ApM-2 (AttB)
<ul style="list-style-type: none"> describe the levels of disturbance currently affecting wildlife and wildlife habitat, such as habitat fragmentation and the extent of human access and use; 	S7.10.4, S7.11.4 ApM-2 Note 12
<ul style="list-style-type: none"> describe the natural disturbance regimes and their sources (e.g. fire, floods, droughts, diseases, insects and other pests, etc.); 	S7.8.4, S7.9.4, S7.10.4, S7.11.4 ApM-1, ApM-2
<ul style="list-style-type: none"> describe the source of the baseline data, data collection methods, and provide a rationale for any modelling approaches chosen, and describe how community knowledge and Indigenous Knowledge was incorporated 	ApM-1, ApM-2
<ul style="list-style-type: none"> consider accepting submissions of wildlife sightings (photographs with date, time, and location), or use of Citizen Science, from Indigenous and non-Indigenous members of the public. 	ApM-2
8.10.2 Effects to terrestrial wildlife and their habitat	
The Impact Statement must: <ul style="list-style-type: none"> describe the potential effects of the Project on wildlife and wildlife habitat of importance to Indigenous Peoples, including population-level, regional or local sub-population effects, including, but not limited to: <ul style="list-style-type: none"> site preparation, vegetation removal, particularly of habitats important for breeding, overwintering or that act as movement corridors; noise, light and sensory disturbances; water and air emissions or dust; bioaccumulation of contaminants in wildlife; habitat loss and fragmentation; altered predator-prey relations, such as increased wildlife predation; and increased access by hunters; 	S7.8 to S7.11
<ul style="list-style-type: none"> provide an evaluation of the effect of the Project, including any new road access, pipeline, transmission line or other rights of way on wildlife mortality risk and movement patterns; 	S7.10.7, S7.11.7
<ul style="list-style-type: none"> provide an evaluation of effects to wildlife and wildlife habitat that are directly linked or necessarily incidental to other federal permitting decisions for the Project (this would include an assessment of how changes to waterbodies and fish habitat could affect wildlife and wildlife habitat); 	S7.10.5, S7.11.5
<ul style="list-style-type: none"> describe effects to wildlife biodiversity, considering biodiversity metrics and the biotic and abiotic indicators selected, including changes to regional biodiversity and local and regional ecosystems; 	S7.10.5, S7.10.7, S7.11.5, S7.11.7 Note 12
<ul style="list-style-type: none"> describe and quantify, where possible, the potential effects to wildlife, including acute and chronic effects to wildlife health, of changes to air and water quality (e.g. from contaminants, effluents, atmospheric emissions, dust deposition, and bioaccumulation); 	S7.10.7, S7.11.7
<ul style="list-style-type: none"> describe and assess the resilience and recovery capabilities of wildlife populations and habitats to disturbance, including the anticipated potential for the PA to be returned to its existing state with respect to wildlife populations and their habitat following operations; 	S7.10.8, S7.11.8
<ul style="list-style-type: none"> describe the potential adverse effects of the Project on wildlife and wildlife habitat of importance to Indigenous Peoples, including moose aquatic feeding areas and calving sites, and fur-bearing mammal habitat including American pine marten; describe and take into account the tolerance thresholds for potential adverse effects that Indigenous communities have identified; describe changes to important habitat for species important to current use of lands and resources for traditional purposes; 	S7.10.7, S7.11.7.1.1.5
<ul style="list-style-type: none"> describe, using evidence, the available habitat, if any, in the LSA and RSA for the relocation of displaced species; and 	S7.10.7, S7.11.7 Note 12
<ul style="list-style-type: none"> describe how Indigenous communities were consulted to contribute Indigenous Knowledge regarding valued wildlife. Include how concerns were addressed including studies needed to assess potential impacts and develop mitigation strategies as needed. 	S7.1, S8.3, S9.3, S10.4, S10.6, S10.7, S11.4, ..., Note 1, S14.7
8.10.3 Mitigation and enhancement measures	
The Impact Statement must describe the measures for mitigating potential effects on terrestrial wildlife and wildlife habitat, including: <ul style="list-style-type: none"> describe all feasible measures to avoid or lessen potential adverse effects on wildlife and their habitat, including residences and critical habitat. Include a description of the measures in terms of the effectiveness of each measure in avoiding negative effects; provide the best technically and economically feasible approaches for mitigating effects on habitat, aligned with the hierarchy of mitigation measures, and justify moving from one mitigation option to another; describe and explain the condition in which the temporary construction areas and right-of-way will be restored or maintained following construction, and explain the mitigation measures considered including possible revegetation, obstruction of the sightline, restoration of wildlife corridors and habitat connectivity, reduction of fragmentation, and reduction of long-term cumulative effects; describe and explain the measures to control the use of the right-of-way, new access roads to access areas that were previously difficult to reach, including by wildlife predators as well as by hunters, off-roading recreationalists, and other users; describe the deterrent systems that will be used to mitigate impacts to wildlife and species at risk due to, for instance, attraction to the project site and/or components, and activities associated with the Project; describe wildlife friendly road-design principles and features, which may include underpasses, wildlife bridges, and speed limits, taking into account sensitive periods like nesting seasons (as well as monitoring to estimate bat and other wildlife mortality); describe measures to prevent the release of harmful substances into waters or areas frequented or occupied by wildlife; describe measures to address sensory disturbance and the resulting functional loss of wildlife habitat; describe technologies and approaches to minimize the impacts of tailings ponds on wildlife that may come into contact with water in the tailings ponds or ditches collecting seepage from the tailing ponds; 	S7.10.6, S7.11.6, T7.10-5, T7.11-6

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> identify provincial or federal permits (<i>Fish and Wildlife Conservation Act</i>) or authorizations that may be required in relation to impacts to wildlife and its habitat (e.g. removal of beaver dams), and describe discussions with the appropriate authority regarding permits or authorizations; and 	S7.11.1
<ul style="list-style-type: none"> describe mitigation measures applicable to wildlife habitat and other biodiversity metrics that will be implemented through reclamation, including timelines and targets that will be used to assess effectiveness. 	S7.10.6, S7.11.6, T7.10-5, T7.11-6
8.11 Species at Risk and their habitat	
<p>The Impact Statement must identify species at risk listed on Schedule 1 of <i>SARA</i>, if the species or its critical habitat are likely to be in the PA or study areas. The Impact Statement must identify any likely adverse effects from the Project on the listed species and their critical habitat, as well as measures that can be taken to avoid or lessen those effects and to monitor them.</p>	S7.12
<p>Specifically, the Impact Statement must consider each of the following species at risk:</p> <ul style="list-style-type: none"> boreal caribou (threatened); wolverine (special concern); little brown myotis, northern myotis, and tri-colored bat (endangered); bank swallow, eastern whip-poor-will, barn swallow, and Canada warbler (threatened); eastern wood-pewee, common nighthawk, olive-sided flycatcher, evening grosbeak, rusty blackbird, short-eared owl, yellow rail, and red-necked phalarope (special concern); and lesser yellowlegs (not listed, and assessed by COSEWIC as threatened). 	S7.12 ApM-2 (T1-5)
<p>For little brown myotis, northern myotis, tri-colored bat, rusty blackbird, and short-eared owl, provide an assessment of any potential effects of the Project and measures that will be taken to comply with Ontario's <i>Endangered Species Act</i>. Describe how the measures are consistent with any existing federal Recovery Strategy, where applicable. If they are not consistent, then propose additional measures to ensure they are consistent. Provide a rationale.</p>	S7.12.6, T7.12-8
<p>The Impact Statement must also address any species at risk that are added to Schedule 1 or recommended by COSEWIC to be added after these guidelines are published.</p>	S7.12 ApM-2 (T1-5)
8.11.1 Baseline conditions	
<p>The Impact Statement must, for boreal caribou and wolverine:</p>	S7.12.4.1, S7.12.4.3 ApM-1, ApM-2
<ul style="list-style-type: none"> provide baseline information that is representative of current conditions; 	
<ul style="list-style-type: none"> describe abundance (including relative abundance in each habitat type), population status, and distribution; 	
<ul style="list-style-type: none"> describe seasonal and annual variation in abundance, distribution, and habitat use; 	
<ul style="list-style-type: none"> provide a map showing survey sites, species sighting records, the areas of highest concentration or areas of use from all available data sources; 	
<ul style="list-style-type: none"> provide information and/or mapping at an appropriate scale for residences, seasonal movements, movement corridors, habitat requirements, key habitat areas, identified or proposed critical habitat, and/or recovery habitat (where applicable); 	
<ul style="list-style-type: none"> describe the general life history (e.g. breeding, foraging) that may occur in the PA, or be affected by the Project; 	
<ul style="list-style-type: none"> identify critical periods (e.g. denning, rutting, spawning, calving, breeding, roosting), setback distances, or other restrictions related to these species; 	
<ul style="list-style-type: none"> provide any published studies that describe the regional importance, abundance and distribution of species at risk, including recovery strategies or plans. This includes, but is not limited to, the resources and guidance in Appendix 2; and 	
<ul style="list-style-type: none"> describe the source of the species at risk data, including survey design, sampling protocols, and data handling: <ul style="list-style-type: none"> when using recognized standards, provide details of any modifications to the recommended methods and rationale for these modifications; indicate who was consulted in the development of the baseline surveys (e.g. federal/provincial wildlife experts, specialists, and local Indigenous communities); and describe how community knowledge and Indigenous Knowledge was incorporated; 	
<p>With respect to boreal caribou and its habitat, the Impact Statement must additionally:</p>	S7.12 ApM-2 Note 12
<ul style="list-style-type: none"> include a map showing the proximity of the full Sydney Caribou Range boundary in relation to the proposed project footprint; 	
<ul style="list-style-type: none"> define the entire Sydney Caribou Range as the RSA and assess baseline conditions and effects at the range-scale; with respect to defining the LSA it should include, at a minimum: <ul style="list-style-type: none"> the project study area plus a buffer that includes home range size estimates for the local population if available, or provincial/national estimates as a proxy, considering best available data. Any buffer size chosen should encompass the maximum home range size estimate. consult with expert advisors with the Government of Ontario and ECCC and provide a justification of the extent of the LSA; 	S7.12.2.2.2
<ul style="list-style-type: none"> provide the best information available from the Government of Ontario and ECCC regarding population size, habitat condition, level of disturbance (anthropogenic vs. fire), trends, in the absence of the Project, within the study areas; <ul style="list-style-type: none"> In some instances, provincial methodologies may differ from federal recommendations. Consider both methodologies in order to apply the federal 35% habitat disturbance threshold outlined in the Amended Recovery Strategy for the Woodland Caribou (<i>Rangifer tarandus caribou</i>), Boreal Population, in Canada 2020, and to determine the amount of habitat disturbance. 	S7.12 ApM-2
<ul style="list-style-type: none"> provide a qualitative summary of the most predictable changes to habitat conditions and population levels that would occur in the absence of the Project over project phases, taking into account forest management practices, forest succession, and other predictable changes; 	S7.12.7, S7.12.8 ApM-2 Note 12
<ul style="list-style-type: none"> provide the best available information about use of the study areas by boreal caribou (e.g. distribution, movement, timing) over project phases; and supplement this information with data from additional baseline studies where there are gaps in information, as necessary to build confidence with conclusions (having consulted both ECCC and the Government of Ontario on the state of existing data, survey methodology, and the development of any study plans); 	S7.12.4.1 ApM-2 (3.4.1) Note 12
<ul style="list-style-type: none"> evaluate whether boreal caribou have potential to interact with the Project or be impacted by the project activities during sensitive periods associated with boreal caribou life stages, such as calving, overwintering, and any seasonal movements over project timelines; 	S7.12.5 ApM-2
<ul style="list-style-type: none"> describe, over the course of all project phases, the type and spatial extent of biophysical attributes and permanent alterations present in the PA and LSA, as defined in Appendix H of the Amended Recovery Strategy for the Woodland Caribou (<i>Rangifer tarandus caribou</i>), Boreal Population, in Canada 2020; 	S7.12.7 ApM-2
<ul style="list-style-type: none"> conduct field surveys to complement existing habitat data if necessary to understand where the biophysical attributes occur within the LSA; 	ApM-1
<ul style="list-style-type: none"> include a map of General Habitat categories throughout the LSA using Ontario's General Habitat Description for the Forest-Dwelling Caribou and identify permanent alterations; 	F7.12-5 ApM-2 (AttG)
<ul style="list-style-type: none"> describe the current state of connectivity of boreal caribou habitat, within the range, and between ranges, including the corridors between important habitat features, as determined appropriate through technical discussions with the Agency and its federal expert advisors prior to submitting the Impact Statement, and the projection of boreal caribou habitat connectivity in the absence of the Project over the course of all project phases; and 	S7.12.4.1 ApM-2 (3.4.1, AttG) Note 12
<ul style="list-style-type: none"> describe the current state of predator and/or alternate prey access into otherwise undisturbed areas within the LSA. 	S7.12
8.11.2 Effects to species at risk and their habitat	
<p>The Impact Statement must, for boreal caribou and wolverine:</p>	S7.12.5, S7.12.7 Note 12
<ul style="list-style-type: none"> describe the potential effects of the Project on species at risk identified above and its critical habitat (including its extent, availability, and presence of biophysical attributes). The analysis of potential effects should be provided separately for each species at risk, including separate analyses for each activity, component and phase of the Project; 	
<ul style="list-style-type: none"> describe key indicators used to assess project effects and the sensitivity of species at risk to disturbance. Provide a rationale for their selection, including a clear connection to the indicators used to characterize baseline conditions; 	S7.12.2.3, S7.12.2.4.4, S7.12.2.4.5 T7.12-1
<ul style="list-style-type: none"> identify provincial or federal permits or authorizations that may be required in relation to the species at risk, and describe discussions with the appropriate authority regarding permits or authorizations; 	S7.12.2.1
<ul style="list-style-type: none"> describe the area, biophysical attributes, and location of habitat including critical habitat affected (e.g. destroyed, permanently altered, disrupted), including direct and indirect effects due to vibration and artificial light in the PA on usage patterns and migratory behaviour of species at risk; 	S7.12.7 Note 12

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> describe the residual effects that are likely to result from the Project after avoidance and minimization measures have been applied, including the extent, duration, and magnitude of the effects on: <ul style="list-style-type: none"> number of individuals killed, harmed, harassed; and number of residences damaged or destroyed; 	S7.12.8
<ul style="list-style-type: none"> describe and take into account the tolerance thresholds for potential adverse effects that Indigenous communities have identified. 	NA Note 14
<p>With respect to boreal caribou, the Impact Statement must additionally:</p> <ul style="list-style-type: none"> provide an assessment of potential adverse effects on boreal caribou habitat from the Project activities; determine whether the Project will remove or alter any biophysical attributes necessary for boreal caribou, and provide an explanation for the conclusion; with respect to effects on existing habitat at the scale of the range: <ul style="list-style-type: none"> provide an account (and GIS file if available) of existing habitat affected using the following formula: (Project footprint + 500-metre buffer) – overlapping (permanent alteration(s) + 500 m buffer) determine whether the Project is expected to compromise the ability of the range to be restored to the undisturbed habitat threshold, and provide a rationale; determine whether the Project is expected to result in a reduction of connectivity within the range and/or between ranges, and provide a rationale for the conclusion; evaluate effects to habitat quality and habitat connectivity at the local, regional and range scales using quantitative methods (e.g. habitat quality analysis); determine whether the Project is expected to result in an increase of predator and/or prey access to undisturbed areas and provide a rationale for the conclusion; provide an assessment of potential adverse effects on boreal caribou individuals, including: <ul style="list-style-type: none"> any sensory disturbance (e.g. noise, vibration, light) or sources of collisions that could affect individual boreal caribou, if they are present, and assess if these could lead to avoidance of habitat; evaluate the effects on the status of boreal caribou populations at the range scale by providing: <ul style="list-style-type: none"> the best available information regarding population size and trend; an assessment of the potential adverse effects of the Project on the population condition of the range (i.e. size and trend); and an assessment of the potential adverse effects on boreal caribou (e.g. sensory disturbance, mortality, pollution); describe and map how the landscape will provide for future boreal caribou habitat during the decommissioning and abandonment phases, including how much of the project footprint will be available for boreal caribou use, and approximately when the restored habitat is expected to age to preferred boreal caribou habitat; describe how reclaimed habitat may compare to baseline conditions; and describe any effects on boreal caribou recovery progress at the Sydney range-scale, over the short, medium and long-term including the construction, operation, decommissioning, and abandonment phases of the Project. 	S7.12.5, S7.12.7 ApM-2 Note 12
8.11.3 Mitigation and enhancement measures	
<p>The Impact Statement must demonstrate the use of the mitigation hierarchy to select appropriate mitigation measures and describe the measures for mitigating potential effects on species at risk and their habitat, including:</p> <ul style="list-style-type: none"> describe the proposed mitigation measures for potential adverse effects on species at risk and critical habitat, include the justification, based on scientific data, for the proposed measures; provide an account of how the Project and mitigation measures are consistent with the recovery strategy, action plan, or management plan for the species. Mitigation measures must be compatible with any applicable recovery strategy and action or management plan and be described in terms of the effectiveness of each measure in avoiding negative effects; describe mitigation measures to reduce the risk of harmful, destructive or disruptive activities in sensitive times and places of importance to species at risk; describe measures to prevent the release of harmful substances into waters or areas frequented or occupied by species at risk; and provide mitigation measures for effects on habitat, aligned with the hierarchy of mitigation measures and justify moving from one mitigation option to another and justify moving from one mitigation option to another. <p>With respect to boreal caribou, the Impact Statement must additionally:</p> <ul style="list-style-type: none"> demonstrate that measures to avoid and minimize effects will be applied for boreal caribou and its critical habitat; 	S7.12.6 Note 12
<ul style="list-style-type: none"> describe all reasonable alternative means of carrying out the Project that would avoid the adverse effects of the Project on boreal caribou; 	S4, S4.5.1.2.1
<ul style="list-style-type: none"> describe how these alternative means have been considered, and provide a rationale to confirm that the best solution has been adopted to mitigate adverse effects on boreal caribou; 	S4, S7.12
<ul style="list-style-type: none"> describe all feasible measures that will be taken to minimize the adverse effects of the Project on boreal caribou and its critical habitat; 	S7.12.6 Note 12
<ul style="list-style-type: none"> report on how the Project and mitigation measures are consistent with the Amended Recovery Strategy for Woodland Caribou, Boreal Population, in Canada; 	S7.12
<ul style="list-style-type: none"> design and implement a follow-up program including but not limited to: <ul style="list-style-type: none"> monitoring effects on boreal caribou (if present or if individuals become present) and their critical habitat; monitoring the efficacy of offsetting; and include robust methodology to allow for a quantitative assessment, a monitoring schedule, performance indicators, thresholds for adaptation, and contingency measures. 	S7.12.6
8.12 Climate change	
8.12.1 GHG emissions	
<p>The proponent must follow the directions and guidance contained in the SACC and the technical guide related to the SACC. With regards to GHG emissions, the Impact Statement must provide:</p> <ul style="list-style-type: none"> a description of each of the Project's main GHG emission sources and their estimated annual GHG emissions over the lifetime of the Project; net GHG emissions by year for each phase of the Project based on its maximum throughput or capacity; each term of Equation 1 of the Technical Guide (Net GHG emissions = Direct GHG emissions + Acquired energy GHG emissions - Avoided domestic GHG emissions - Offset measures), per year for each phase of the Project; emissions intensity (Equation 4 of the Technical Guide) for each year of the operation phase of the Project in terms of kt CO₂ eq/t or equivalent; the quantity and a description of the "units produced" used in Equation 4 of the Technical Guide for each year of the operation phase of the Project; methodology, data, emission factors, and assumptions used to quantify each element of the net GHG emissions; 	ApD-3
<ul style="list-style-type: none"> a discussion on the development of emissions estimates and uncertainty assessment; and 	ApD-3 (S3.5)
<ul style="list-style-type: none"> when applicable, a description of large sources of GHG emissions that may be the consequence of accidents or malfunctions. 	S16.5
8.12.2 Carbon sinks	
<p>The Impact Statement must provide:</p> <ul style="list-style-type: none"> a quantitative and qualitative description of the Project's positive or negative impact on carbon sinks any mitigation measures planned to restore disturbed carbon sinks. 	ApD-3 (S3.7, 5)
8.12.3 Impact of the Project on federal emissions reduction efforts on global GHG emissions	
<p>The Impact Statement must provide an explanation of:</p> <ul style="list-style-type: none"> how the Project may impact Canada's efforts to reduce GHG emissions, if applicable; how the Project could impact global GHG emissions, if applicable; and 	ApD-3 (S7)
<ul style="list-style-type: none"> should the potential exist for the Project to result in increased forest fires in the region, a description of the impact of increased forest fires on climate change. 	NA
8.12.4 Mitigations for climate change and greenhouse gas emissions	
<p>The proponent must complete a Best Available Technologies / Best Environmental Practices (BAT/BEP) Determination.</p>	ApW-2
<p>The proponent must also provide a credible net-zero plan that would use and build off the BAT/BEP Determination to describe the mitigation measures that will be taken to minimize GHG emissions throughout all phases of the Project and achieve net-zero emissions by 2050.</p>	ApW-1

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
9. HEALTH CONDITIONS	
9.1 Baseline conditions	
<p>The Impact Statement must describe the current state of physical, mental and social well-being and incorporate a determinants of health approach to move beyond biophysical health considerations to assess the impacts on Indigenous Peoples. The Impact Statement must:</p> <ul style="list-style-type: none"> • be sufficient to provide a comprehensive understanding of the state of health of Indigenous Peoples; • provide information that is sufficiently detailed to describe the interconnections by which the Project's influence on the determinants of health may affect health risks for potentially affected Indigenous Peoples; • provide a comparison of data at the provincial, regional or national level, if possible, to better interpret baseline conditions for the health of potentially affected Indigenous Peoples; • identify the social area of influence of the Project; • describe how Indigenous Knowledge from relevant Indigenous communities was used in establishing baseline conditions, including input from diverse population groups; and • describe baseline conditions using disaggregated data for diverse population groups and their different access to resources, opportunities and services within the community to support GBA Plus. • provide information that is sufficiently detailed to describe the interconnections by which the Project's influence on the determinants of health may affect health risks for potentially affected Indigenous Peoples; • provide a comparison of data at the provincial, regional or national level, if possible, to better interpret baseline conditions for the health of potentially affected Indigenous Peoples; • identify the social area of influence of the Project; • describe how Indigenous Knowledge from relevant Indigenous communities was used in establishing baseline conditions, including input from diverse population groups; and • describe baseline conditions using disaggregated data for diverse population groups and their different access to resources, opportunities and services within the community to support GBA Plus. 	ApN-1, AppN-2 (AttA), ApO-1
<p>To understand the community context and baseline health profile for Indigenous Peoples, the Impact Statement must:</p> <ul style="list-style-type: none"> • develop community health profiles that reflect the overall health of each potentially affected Indigenous community and the Indigenous populations of the Municipality of Red Lake and the Township of Ear Falls general, where information is available, that include: <ul style="list-style-type: none"> • health outcomes of interest, such as chronic diseases, communicable diseases (e.g. sexually transmitted infections), and mental health and addictions; • health factors of interest, such as health-related behaviours (e.g. food consumption; physical activity; substance use), and mental well-being (e.g. feelings of depression; real or perceived health risks reflecting the level of chronic biological stress); and • use, where known, secondary information sources (e.g. Public Health Agency of Canada, Statistics Canada, Indigenous Services Canada, Indigenous health authorities, provincial health authorities, municipalities); 	ApN-2 (AttA), ApO-1
<ul style="list-style-type: none"> • describe any context-specific definitions of health and well-being, from the perspective of the relevant Indigenous cultures and communities; 	ApN-2
<ul style="list-style-type: none"> • describe relevant Indigenous history or context, including historical impacts on health; 	S10.6.2.2, S11.6.2.2, S12.6.2.2, S13.6.2.2, S14.6.2.2 ApN-2 (AttA)
<ul style="list-style-type: none"> • describe the baseline information for social determinants of health that may be relevant to the Project, including social and economic conditions 	S10.8.2.2.2, S11.8.2.2.2, S12.8.2.2.2, S13.8.2.2.2, S14.8.2.2.2 ApN-2, ApO-1
<ul style="list-style-type: none"> • describe the determinants of health for diverse population groups within each community (e.g. gender-based violence); 	S10.8.3, S11.8.3, S12.8.3, S13.8.3, S14.8.3 ApN-2, ApO-1
<ul style="list-style-type: none"> • illustrate the interconnections between the abovementioned factors, contributing positively or adversely to social/community well-being, and health factors related to mental and physical well-being, to identify potential interactions of effects; 	S10.8.2, S11.8.2, S12.8.2, S13.8.2, S14.8.2 ApN-2
<ul style="list-style-type: none"> • describe and characterize the existing health services and programs, including health care provider capacity; 	S10.5.2, S11.5.2, S12.5.2, S13.5.2, S14.5.2 ApN-2, ApO-1
<ul style="list-style-type: none"> • provide the approximate location on a map and distance of likely human receptors, including foreseeable future receptors, which could be affected by changes in air, water, country food quality, and noise and light levels. Include the gathering, hunting, trapping and fishing areas used by Indigenous Peoples, as well as permanent and temporary residences of Indigenous Peoples (e.g. cottages and camps identified in collaboration with Indigenous Peoples) and any sensitive receptors near the Project; 	ApD-2, ApE-3, ApG, ApN-1, ApO-1, ApO-3
<ul style="list-style-type: none"> • describe drinking water sources, both surface and/or groundwater (permanent, seasonal, periodic or temporary), including approximate wellhead capture zones and the distance from project activities; 	ApN-2 (AttA), ApO-1
<ul style="list-style-type: none"> • describe the access to, and consumption of, country foods (traditional foods) by Indigenous Peoples as a health-related behaviour, including what species are used, quantities, frequency, harvesting locations and how the data were collected (e.g. site-specific consumption surveys, First Nations Food, Nutrition & Environment Study), and if applicable what country foods are currently being avoided because of perceived contamination; 	S10.6.2, S11.6.2, S12.6.2, S13.6.2, S14.6.2 ApN-1, ApN-2
<ul style="list-style-type: none"> • provide baseline contaminant concentrations in ambient air, drinking water, and tissues of traditional foods consumed by Indigenous Peoples. The proponent should work with local Indigenous communities to collect tissue samples where appropriate; 	ApD-1, ApK-1, ApN-1
<ul style="list-style-type: none"> • describe the level of food security and food sovereignty within Indigenous communities. Refer to the Public Health Agency of Canada's website on food security and to the First Nations Food, Nutrition & Environment Study for more information; and 	S10.4, S10.8, S11.4, S11.8, S13.4, S13.8, S14.4, S14.8 ApN-2 (AttA)
<ul style="list-style-type: none"> • provide a summary of identified data and explain the selection of methods for statistical analysis of available data, including identifying uncertainties and limitations of proposed methods and available data. If surrogate data from reference sites are used rather than project site-specific measurements, demonstrate how the data are representative of site conditions. 	ApN-1, ApN-2 (AttA)
<p>The proponent must justify any omission or deviation from the recommended baseline characterization approaches and methods, including the Health Canada guidelines.</p>	ApN-1, ApN-2 (AttA)
9.2 Effects to human health	
<p>The proponent must assess the potential effects of the Project on the health of Indigenous Peoples. Interconnections between human health and other VCs and interactions between effects must be described.</p>	S10.8, S10.9, S11.8, S11.9, S12.8, S12.9, S13.8, S13.9, S14.8, S14.9 ApN-1, ApN-2
<p>A dedicated Health Impact Assessment, supported by a Human Health Risk Assessment (HHRA), should show an understanding of the Project's health, social, and economic impacts on Indigenous Peoples and will play a role in understanding the Project's impacts on rights and culture.</p>	ApN-1, ApN-2

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> • apply a Human Health Impact Assessment approach, including consideration of determinants of health; • describe any potential project effects on the health profile of each Indigenous community, and on the Indigenous populations of the Municipality of Red Lake and the Township of Ear Falls; • describe any potential health effects resulting from changes in biophysical determinants of health (i.e. environmental conditions) and social determinants of health (i.e. social and economic conditions); • describe how community and Indigenous Knowledge was used in assessing human health effects; and • apply GBA Plus across all health effects and document how potential effects or changes to human health conditions could be different for diverse population groups. 	<p>S10.9, S11.9, S12.9, S13.9, S14.9 ApN-1, ApN-2</p>
9.2.1 Biophysical determinants of health	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> • provide an assessment of the potential effects on human health in consideration of, but not limited to, potential changes in: <ul style="list-style-type: none"> • air quality; • noise exposure and effects of vibration; • light levels; • current and future accessibility, availability and quality of country foods (traditional foods); and • current and future accessibility, availability and quality of water for drinking, recreational and cultural uses; 	<p>S10.9, S11.9, S12.9, S13.9, S14.9 ApN-1, ApN-2</p>
<ul style="list-style-type: none"> • determine the anticipated effects of the Project on the quality and quantity of groundwater or surface water used for domestic purposes based on the strictest guideline values for the following criteria: Guidelines for Canadian Drinking Water Quality, or any relevant provincial water quality standards or guidelines; 	<p>S10.9, S11.9, S12.9, S13.9, S14.9 ApN-1, ApN-2</p>
<ul style="list-style-type: none"> • describe how the project-related contaminants (e.g. arsenic, mercury, cadmium, lead, chromium) that can potentially end up in the water, air, or soil, may be taken up in country foods (i.e. foods that are trapped, fished, hunted, harvested or grown for subsistence, cultural or medicinal purposes); 	<p>S10.9, S11.9, S12.9, S13.9, S14.9 ApN-1, ApN-2</p>
<ul style="list-style-type: none"> • provide the rationale if a determination is made that an assessment of the potential for contamination of country foods (traditional foods or other exposure pathways, such as inhalation) is not required or if some contaminants are excluded from the assessment; 	<p>ApN-1</p>
<ul style="list-style-type: none"> • include a detailed HHRA of mercury exposure via consumption of country foods, especially fish, using the Tolerable Daily Intake (TDI) published by Health Canada (Health Canada, 2021). Efforts should be made to ensure that existing methylmercury exposure in nearby human receptors are factored into the HHRA, particularly when assessing impacts on Grassy Narrows First Nation community members in the HHRA. 	<p>ApN-1, ApT</p>
<ul style="list-style-type: none"> • identify other potential pathways of exposure to contaminants; 	<p>ApN-1, ApN-2</p>
<ul style="list-style-type: none"> • provide a detailed justification for every contaminant of potential concern (COPC26) or exposure pathways that would be excluded and/or eliminated from the assessment of the human health risks; 	<p>ApN-1</p>
<ul style="list-style-type: none"> • conduct a problem formulation exercise and/or preliminary model predictions to determine whether an HHRA is required. The proponent must provide a rationale if the problem formulation and/or preliminary model predictions indicate that an HHRA is not warranted; 	<p>ApN-1</p>
<ul style="list-style-type: none"> • problem formulation consists of identifying the main factors to consider. It briefly addresses the following factors: <ul style="list-style-type: none"> • identification of the boundaries of the study; • identification of the current and future COPCs; • identification of current and future human receptors; • identification of current and future exposure pathways; and • development of the conceptual site model illustrating the connections existing between the COPC, the receptors and the exposure pathways; 	<p>ApN-1</p>
<ul style="list-style-type: none"> • if an HHRA is conducted, the assessment must examine all exposure pathways for COPC to adequately characterize potential biophysical risks to the health of Indigenous Peoples. A multimedia HHRA may need to be considered and conducted for any contaminant of potential concern with an identified risk and multiple pathways. Use best practices in health risk assessment methods 	<p>ApN-1</p>
<ul style="list-style-type: none"> • provide an assessment of the carcinogenicity of diesel exhaust gases when diesel engines are a source of air pollutant emissions for the Project. 	<p>ApN-1</p>
<ul style="list-style-type: none"> • assess non-cancer risks of short-term and chronic exposure to diesel exhaust using the guidance values presented in the Human Health Risk Assessment for Diesel Exhaust; 	<p>ApN-1</p>
<ul style="list-style-type: none"> • assess the cancer risks of human exposure to all potentially carcinogenic PAHs in the diesel mixture rather than to a single surrogate substance 	<p>ApN-1</p>
<ul style="list-style-type: none"> • describe and quantify specific thresholds used for HHRA and document if different thresholds were considered for vulnerable populations, including by sex and age. Provide a justification if any applicable threshold was not used; 	<p>ApN-1</p>
<ul style="list-style-type: none"> • in situations where project related air, water or noise emissions meet local, provincial, territorial or federal guidelines, and yet public concerns were raised regarding human health effects, provide a description of the public concerns and how they were or are to be addressed; and 	<p>ApN-1, ApN-2</p>
<ul style="list-style-type: none"> • describe any project-related changes that could result in a positive health effect (e.g., remediation projects). 	<p>S10.9, S11.9, S12.9, S13.9, S14.9 ApN-1, ApN-2</p>
9.2.2 Social determinants of health	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> • describe the potential health effects arising from the effects on social and economic VCs, and their respective indicators, reflecting the input of the affected Indigenous Peoples; 	<p>S10.4, S10.8, S10.9, S11.4, ..., Note 1, S14.9 ApN-2</p>
<ul style="list-style-type: none"> • identify and describe anticipated changes to determinants of health that may be related to the Project, for example: <ul style="list-style-type: none"> • housing availability, home value, housing affordability and home ownership; • demographic information on the region, including available descriptive statistics (e.g. age, ethnicity, sex and gender, language); • access to health and social services; • community cohesion; • average income and wage inequality; • education level; • factors supporting mental health and community well-being (including perceived stress, feelings of isolation, of remoteness, of concern for future generations); and • safety of Indigenous women; 	<p>S10.8, S10.9, S11.8, ..., Note 1, S14.9 ApN-1, ApN-2</p>
<ul style="list-style-type: none"> • identify any emotional or social stress factor that may result from the Project, particularly: <ul style="list-style-type: none"> • concerns regarding public safety raised by the construction or by the risk of accidents or malfunctions related to project operations; and • disturbance of normal daily activities; 	<p>S10.8.3.1, S10.9, S11.8.3.1, ..., Note 1, S14.9 ApN-2</p>
<ul style="list-style-type: none"> • describe any pathways of effect (positive or negative) on the state of intergenerational trauma, mental wellbeing, cultural continuity, poverty, and, if applicable, substance use; 	<p>S10.8, S10.9, S11.8, ..., Note 1, S14.9 ApN-2</p>
<ul style="list-style-type: none"> • describe the effects that temporary work camps have on the safety of women and girls; 	<p>S3.1, S10.8.3.1, S10.9, S11.8.3.1, S11.9, S12.8.3.1, S12.9, S13.8.3.1, S13.9, S14.8.3.1, S14.9 ApN-2</p>
<ul style="list-style-type: none"> • describe potential effects on access to social and health services, including the increased use of health services and related social services in the relevant communities and the region; 	<p>S10.9, S11.9, S12.9, S13.9, S14.5.3, S14.8.3, S14.9 ApN-2</p>

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> indicate the potential health effects, short-term or long-term, resulting from changes on community cohesion and perception of well-being during the construction phase, and determine whether those effects would change again during the operation phase; 	S10.8.3, S11.8.3, S12.8.3, S13.8.3, S14.8.3
<ul style="list-style-type: none"> describe how potential avoidance of land near project components by Indigenous Peoples due to perceived changes in environmental quality and tranquility was considered in assessing potential effects on the diet and health of Indigenous Peoples; 	S10.6, S10.7, S10.9, S11.6, ..., Note 1, S14.9 ApN-2
<ul style="list-style-type: none"> document and take into account tolerance thresholds for potential adverse effects on health identified by Indigenous Peoples; 	NA Note 14
<ul style="list-style-type: none"> with regard to potential effects on food security: <ul style="list-style-type: none"> describe changes in terms of accessibility, availability, utilization (quality and use) and stability of country foods (traditional foods), and the potential effects related to these changes on physical and mental health of Indigenous Peoples; identify possibilities of avoidance of certain country food sources or drinking or recreational water sources by the Indigenous Peoples due to the perception of contamination; 	S10.6, S10.8, S10.9, S11.6, ..., Note 1, S14.9 ApN-2
<ul style="list-style-type: none"> describe and quantify potential effects to mental and social well-being (e.g., stress, depression, anxiety, sense of safety); and 	S10.9, S11.9, S12.9, S13.9, S14.9 ApN-2
<ul style="list-style-type: none"> describe any positive health effects (e.g. resulting from improved economic opportunities, increased access to services). 	S10.9, S11.9, S12.9, S13.9, S14.9 ApN-2
9.3 Mitigation and enhancement measures	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the mitigation and enhancement measures proposed separately for Indigenous Peoples and for each Indigenous community; 	S10.8.4, S10.9, S11.8.4, ..., Note 1 S14.9 T10.8-1, T11.8-1, T12.8-1, T13.8-1, T14.8-1 ApN-2
<ul style="list-style-type: none"> if the level of emissions from a particular project or effluent discharge is below or at the applicable limits, identify if additional mitigation measures will still be considered. However, if the change may be substantial (even within established limits) as a result of local or regional circumstances or the extent of the change, the proponent must provide additional mitigation measures to minimize pollution and risks to human health; 	S10.9, S11.9, S12.9, S13.9, S14.9 ApN-1, ApN-2 Note 9
<ul style="list-style-type: none"> when potential effects on human health exist due to exposure to a non-threshold contaminant (e.g. certain air pollutants such as fine particulate matter and nitrogen dioxide, as well as arsenic, mercury, and lead in drinking water), describe mitigation measures aimed at reducing residual effects to as low a level as reasonably possible; 	S10.9, S11.9, S12.9, S13.9, S14.9 ApN-1, ApN-2
<ul style="list-style-type: none"> identify any measures that would reduce negative effects or enhance positive effects on the state of mental health (e.g. shuttle services for safe and restful commuting, rest breaks for recovery on the job, life-skills training such as financial management and coping strategies); <ul style="list-style-type: none"> if applicable, identify any measures to minimize any potential exacerbation of the opioid crisis currently being experienced in northern Ontario, and measures for preventing substance use on and off the worksite; 	S10.7.4, S10.9, S11.7.4, S11.9, S12.7.4, S12.9, S13.7.4, S13.9, S14.7.4, S14.9 ApN-1, ApN-2
<ul style="list-style-type: none"> identify mitigation and enhancement measures presented in other sections that are also applicable to health and well-being effects; 	S10.7.4, S10.9, S11.7.4, S11.9, S12.7.4, S12.9, S13.7.4, S13.9, S14.7.4, S14.9 ApN-2
<ul style="list-style-type: none"> identify mitigation to avoid human health effects caused by changes to the quality of country foods from potential changes in mercury methylation rates downstream of the project site; 	Ap-T
<ul style="list-style-type: none"> identify mitigation to avoid human health effects caused by changes to drinking water quality (such as signage, or alternative drinking water sources). 	ApN-1
10. SOCIAL CONDITIONS	
10.1 Baseline conditions	
<p>The Impact Statement must describe the existing social conditions for Indigenous communities and the Indigenous populations of the Municipality of Red Lake and the Township of Ear Falls in general.</p> <p>The Impact Statement must:</p> <ul style="list-style-type: none"> be sufficiently detailed to provide a comprehensive understanding of the current state of each VC, including relevant trends; provide community-specific social conditions on a disaggregated basis (without identifying individuals); provide a comparison of data at the provincial, regional or national level, if possible, to better interpret baseline conditions; identify the social area of influence of the Project; 	S10.5, S10.6, S10.7, S10.8, S11.5, ..., Note 1, S14.8 ApO-1
<ul style="list-style-type: none"> describe how Indigenous Knowledge was used in establishing baseline conditions, including input from diverse population groups within Indigenous communities; and 	S3.4, S10.4, S10.8.2, S11.4, ..., Note 1, S14.8.2
<ul style="list-style-type: none"> describe baseline conditions using disaggregated data for diverse population groups (e.g. women, youth and Elders) and their different access to resources, opportunities, and services within the community to support GBA Plus. 	S10.8.2, S11.8.2, S12.8.2, S13.8.2, S14.8.2 AppO-1
10.1.1 Community profile	
<p>To understand the community context, the Impact Statement must prepare community profiles for each Indigenous community and for the Indigenous populations of the Municipality of Red Lake and the Township of Ear Falls Red Lake/Ear Falls Indigenous population in general, and describe:</p> <ul style="list-style-type: none"> influences on community well-being (e.g. disposable income, cost of living, lifestyle, language, rates of alcohol and substance use, and rates of illegal activities and violence, and gender-based violence), including indicators proposed by Indigenous communities; community cohesion, including level of support and engagement in community or neighbourhood, social networks, and social activities; the psychosocial environment and its influence on community well-being; the socio-cultural environment; demographic characteristics and major socio-cultural values of Indigenous Peoples; access, ownership and use of resources (e.g. land tenure, minerals, food, water, social infrastructure); capacity (currently available or planned) of institutions to deliver public services and infrastructure, including road maintenance, health services, social services, mental health and addiction-related services; relevant historical community background; and applicable history with previous developers. 	S10.5.2, S10.6.2, S10.7.2, S10.8.2, S11.5.2, ..., Note 1 S14.8.2 ApO-1

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
10.1.1 Services and infrastructure	
<p>The Impact Statement must describe the existing local and regional services and infrastructure in the study areas as they relate to the social conditions of Indigenous Peoples, including:</p> <ul style="list-style-type: none"> road infrastructure and traffic safety; power lines; utilities; emergency services (e.g. firefighters, police, ambulances); accommodation and lodging (e.g. affordability, availability, suitability); educational services and facilities; elder care and services; existing health services and programs, including mental health and addiction-related services, and the capacity of service providers; social services including women's shelters; and all other potentially affected infrastructure and services. 	S10.5.2, S11.5.2, S12.5.2, S13.5.2, S14.5.2 ApO-1
10.2 Effects to social conditions	
<p>The Impact Statement must assess the adverse and positive effects of the Project on social conditions of Indigenous Peoples. Interconnections between social VCs and other VCs and interactions between effects must be described.</p>	S10.1, S10.5.6, S10.6.6, S10.7.6, S10.8.6, S11.1, ..., Note 1, S14.8.6
<p>As applicable to the assessment, the analysis should describe the goals of local or regional land use plans, development plans, or community wellness and safety plans, and the extent to which the Project is aligned with such plans to avoid or enhance social effects. The effects assessment should explore and discuss opportunities by which benefits to local communities can be enhanced.</p>	S10.5.2, S10.8.2, S11.5.2, S11.8.2, S12.5.2, S12.8.2, S13.5.2, S13.8.2, S14.5.2, S14.8.2
10.2.1 Effects to community well-being	
<p>The Impact Statement must describe effects to community well-being for Indigenous Peoples, including:</p> <ul style="list-style-type: none"> assess potential adverse and positive effects, at the Indigenous community level and for the Indigenous populations of the Municipality of Red Lake and the Township of Ear Falls in general, of changes to social conditions including, but not limited to: <ul style="list-style-type: none"> income inequity; housing prices and availability; changes that result from increased population (temporary or permanent) or increased cost of living; prevalence of criminal activity; and those conditions considered for analysis of determinants of health in section 9.2 Effects to human health; 	S10.8.3, S11.8.3, S12.8.3, S13.8.3, S14.8.3
<ul style="list-style-type: none"> describe, at the community level, the expected interactions between the Project's construction, operation, decommissioning, and abandonment workforce and local communities, businesses and residents; describe in-and out-migration effects, including changes in population, and any differential and particular impacts on women and girls; identify whether social divisions might be intensified as a result of the Project; evaluate effects on access, ownership and use of resources (e.g. land tenure, minerals, food, water, social infrastructure); consider the potential for stresses on community, family and household cohesion, reliance on women's shelters, substance use, or illegal or other potentially disruptive activities; describe potential effects related to greater propagation of sexually transmitted infections and gender- based violence (e.g. harassment or human trafficking); 	S10.8.3, S11.8.3, S12.8.3, S13.8.3, S14.8.3
<ul style="list-style-type: none"> document and take into account tolerance thresholds for potential adverse effects identified by Indigenous Peoples; 	NA Note 14
<ul style="list-style-type: none"> describe how Indigenous Knowledge was used in assessing community well-being; describe any positive effects on well-being (e.g. resulting from improved economic opportunities, increased access to services); and apply GBA Plus within the information related to community well-being for Indigenous Peoples and document how potential effects of changes to community well-being could be different for diverse population groups (e.g. women, youth, or Elders). 	S10.8.3, S11.8.3, S12.8.3, S13.8.3, S14.8.3
10.2.2 Effects to services and infrastructure	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the predicted effects to the local and regional infrastructure facilities and services as they relate to the social conditions of Indigenous Peoples, including adverse and positive effects to: <ul style="list-style-type: none"> road infrastructure and traffic safety; power lines; utilities; emergency services (e.g. firefighters, police, ambulances); accommodation and lodging (e.g. affordability, availability, suitability); educational services and facilities; elder care and services; existing health services and programs, including mental health and addiction-related services and the capacity of service providers; social services including women's shelters; and all other potentially affected infrastructure and services; 	S10.5.3, S11.5.3, S12.5.3, S13.5.3, S14.5.3
<ul style="list-style-type: none"> take into account potential effects arising from a higher risk of accidents for each phase of the Project, (e.g. a higher risk of impact on the road system and emergency services during the construction phase due to an increased use of roads); and 	S10.5.3, S11.5.3, S12.5.3, S13.5.3, S14.5.3
<ul style="list-style-type: none"> describe any need for government and/or proponent expenditures for new or expanded services, facilities or infrastructure, arising out of project-related effects. 	S10.5.4, S11.5.4, S12.5.4, S13.5.4, S14.5.4
10.3 Mitigation and enhancement measures	
<p>The Impact Statement must describe the mitigation and enhancement measures that will be implemented for all potential effects on social VCs in relation to Indigenous Peoples, including:</p> <ul style="list-style-type: none"> describe mitigation for changes to housing availability, health services, mental health and addiction- related services, emergency services, educational services and facilities; take into account local and regional land use plans, development plans, and community safety and wellness plans where applicable mitigation or enhancement measures are proposed. 	S10.5.4, S10.6.4, S10.7.4, S10.8.4, S11.5.4, ..., Note 1, S14.8.4
11. ECONOMIC CONDITIONS	
11.1 Baseline conditions	
<p>The Impact Statement must describe the local and regional economic conditions and trends, including for Indigenous communities and the Indigenous populations of the Municipality of Red Lake and the Township of Ear Falls in general, including the following:</p> <ul style="list-style-type: none"> an overview of the main economic activities in the study areas, and demographic information for economically active members of the local and regional population; any local, provincial, or federal economic development plans or funding programs for the PA, LSA, and RSA, and the level of funding received by any community as a result of these initiatives; 	ApO-1
<ul style="list-style-type: none"> any relevant treaty provisions pertaining to economic development for Indigenous Peoples; 	S10.10, S11.10, S12.10, S13.10, S14.10
<ul style="list-style-type: none"> existing employment rates, including principal employment and economic well-being in the study areas and impacted communities; 	ApO-1
<ul style="list-style-type: none"> workforce, including the availability of skilled and unskilled workers, existing working conditions, wages and average salary range, full-time and part-time employment and training and gender gaps such as for skilled trades and in wages and qualifications; 	ApO-1

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> existing local and regional workforce development and training programs, including those specific for Indigenous Peoples; 	S7.16 ApO-1
<ul style="list-style-type: none"> the education graduation rates and implications to employment within the mining sector; 	10.8.2.2.2, 11.8.2.2.2, 12.8.2.2.2, 13.8.2.2.2, 14.8.2.2.2 ApO-1
<ul style="list-style-type: none"> a qualitative summary of conditions that influence workforce availability in the study areas over the short- and long-term, anticipated availability for the proposed project timelines, and a summary of best and worst case scenarios for Indigenous workforce availability considering various factors, including those outside of the proponent's control; 	ApO-1
<ul style="list-style-type: none"> an overview of the Indigenous businesses that may provide supplies and services required for the Project, including the affiliation of those businesses, if applicable, to potentially effected Indigenous communities identified in the Indigenous Engagement and Partnership Plan; and 	ApO-1
<ul style="list-style-type: none"> any current use of land and waterbodies in the study areas for traditional or non-traditional economic purposes by Indigenous Peoples 	S10.6, S11.6, S12.6, S13.6, S14.6
<p>The Impact Statement must describe:</p> <ul style="list-style-type: none"> any use of lands and water bodies for economic activities, by any people, in the applicable study areas including recreational and commercial fishing, baitfish harvesting, trapping, outdoor recreation, use of seasonal cabins, and outfitters. 	S7.13, S10.6, S11.6, S12.6, S13.6, S14.6 ApO-1
<p>Baseline conditions must be described using disaggregated data for diverse population groups (e.g. Indigenous women, youth, and Elders) and their different access to resources, opportunities and services within the community to support GBA Plus.</p>	S10.8.2, S10.8.5, S11.8.2, ..., Note 1, S14.8.5 ApO-1
11.1 Effects to economic conditions	
<p>The Impact Statement must describe potential positive and adverse effects on Indigenous Peoples and to the local, regional, provincial, and national economy.</p>	S7.16 ApO-2
11.1.1 Employment	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the potential changes in employment including the following aspects: <ul style="list-style-type: none"> an estimate of the direct, indirect and induced employment at each phase of the Project, including an estimate of the full-time equivalent (FTE) employment and part-time employment created at each phase of the Project, and during each calendar year over the lifespan of the Project; an estimate of direct, indirect or induced income or wages and benefits, including a comparison to the industry average, the local average, the provincial average, the regional average, and the national average; a description of the types of employment created at each phase of the Project, including skill requirements for the types of employment; an estimate of the ability of the local and regional labour market (including Indigenous participants in the labour market) to meet demand under the anticipated scenario, best case scenario, and worst case scenario described in baseline conditions; to the extent practicable indicate the affiliation of the participants to Indigenous communities identified in the Indigenous and Engagement Partnership Plan; an estimate of the target workforce for each phase of the Project based on any plans to support hiring of underrepresented demographic profiles such as by biological (sex), socio-cultural (gender), and identity factors (race, ethnicity, religion, age, and mental or physical disability), as well as reasons for the levels of the targets and plans to achieve them; description of the plans and the justification for hiring of temporary workers, including any temporary foreign workers, to make up for any local shortage of labour and skills; an estimate of introduced workers into the local and regional labour market to support the Project; situations where the Project may cause the displacement of local workers; and any potential long-term changes to the local and regional labour markets as a result of this Project; 	S7.16, S18.1 ApO-2 Note 6
<ul style="list-style-type: none"> describe the potential changes in training including: <ul style="list-style-type: none"> training programs and/or other initiatives to improve employment opportunities for Indigenous Peoples. Please specify the sources of funding including proponent and government programs, such as the Indigenous Skills and Employment Training Program service delivery network; and potential economic effects from training related to the Project; 	S18.2
<ul style="list-style-type: none"> describe the GBA Plus aspects of employment, including: <ul style="list-style-type: none"> the potential effects on employment for Indigenous Peoples, including circumstances in which Indigenous Peoples could receive fewer benefits related to the Project than others; any actions that will be taken to increase the employment of Indigenous Peoples that may face barriers to employment in the Project, to achieve inclusivity and well-being in the mining workforce, including training programs and measures to address gender-based violence and discrimination; and the Project's diversity and inclusion workforce plans, policies and practices. 	S18.6
11.1.2 Business environment and local economy	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> set out the investment in the Project for each phase and the total investment, including detailed forecast of capital and operating costs; describe economic benefits to the economy as a whole, including: <ul style="list-style-type: none"> information on revenues from tax levies, royalties, changes to Gross Domestic Product (GDP), development of new technologies or intellectual property; and an estimate and description of direct, indirect, and induced economic effects of the Project in the short and long term; 	S7.16 ApO-2
<ul style="list-style-type: none"> describe any revenue/economic benefit agreements under consideration or concluded with Indigenous communities (details not necessary); 	Note 6
<ul style="list-style-type: none"> provide an estimate of the anticipated levels of local and regional economic participation in the Project for Indigenous Peoples, in comparison to the total project requirements (e.g. total dollar value of contracts); 	Note 6
<ul style="list-style-type: none"> describe situations when the Project may directly or indirectly create economic hardships for, or the displacement of, Indigenous businesses; 	Note 15
<ul style="list-style-type: none"> describe any effects on Indigenous Peoples from changes to specific sectors such as forestry, trapping and commercial recreation and tourism; 	S7.16
<ul style="list-style-type: none"> provide information on the economic viability of the Project, to support the net benefits assessment; 	Note 6
<ul style="list-style-type: none"> describe the methodologies and assumptions used to estimate the economic benefits of the Project including: <ul style="list-style-type: none"> forecasts of relevant commodity prices used, where these were acquired and, if available, how they were forecasted; sources and methodologies used for developing multipliers and estimates and, where a generic multiplier may not accurately reflect the specific situation of the Project, provide evidence of specific economic activity that will result from the Project going ahead; relevant sources of uncertainty in the estimate; sensitivity analysis of how changes in global competitiveness of the Project, commodity prices, capital and operating costs or other relevant sources of uncertainty may affect the estimated economic benefits. Present best-case and worst-case scenarios to provide a realistic description of long-term economic effects of the Project; and discussion of any environmental, social, and governance risks to project economics, including the cost of capital. 	S7.16 ApO-2
<ul style="list-style-type: none"> With respect to effects that are directly linked or necessarily incidental to federal permitting decisions for the Project, the Impact Statement must describe: <ul style="list-style-type: none"> changes to economic conditions for any people or businesses that use lands and water bodies for economic activities in the applicable study areas, including recreational and commercial fishing, baitfish harvesting, trapping, outdoor recreation, use of seasonal cabins, and outfitters. 	S7.13

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
11.2 Mitigation and enhancement measures	
<p>The Impact Statement must describe the mitigation and enhancement measures that will be implemented for all potential effects on the economic conditions, including:</p> <ul style="list-style-type: none"> identify and describe opportunities for enhancing positive effects, such as creation of employment for Indigenous Peoples, including: <ul style="list-style-type: none"> education, training and hiring practices that encourage employment and retention of Indigenous Peoples; actions taken to increase access to education and training opportunities for different groups (e.g., provision of transportation, flexible hours); actions to provide flexibility in work schedules to enable the continued participation of Indigenous employees in traditional and cultural activities; a summary of commitments made with respect to employment, training and trade, including any economic benefit plans or specific cooperation agreements with Indigenous communities; training, education, and scholarship programs that the proponent plans to support in order to improve employment opportunities, including participation in and contribution to local training networks. Specify the types of employment targeted by these programs, as well as the targeted clientele, such as Indigenous Peoples, and diverse population groups (e.g. Indigenous women); cultural competency training plans for non-Indigenous employees to ensure a respectful working relationship with Indigenous contractors; and all cultural awareness training plans for non-Indigenous employees to promote a safe work environment that fosters the well-being of Indigenous employees; 	S10.8.4, S11.8.4, S12.8.4, S13.8.4, S14.8.4, S18.2
<ul style="list-style-type: none"> describe plans, programs and policies to encourage contracting and procurement opportunities for Indigenous Peoples: <ul style="list-style-type: none"> describe supplier network development initiatives, including the identification of potential Indigenous suppliers, and plans to provide them with information on technical, commercial and other requirements, and to debrief unsuccessful bidders; describe any procurement policies that facilitate the opportunities for Indigenous-owned companies; describe technology transfer and research and development programs that will facilitate the use of Indigenous suppliers of goods and services and Indigenous employees; 	S10.8.4, S11.8.4, S12.8.4, S13.8.4, S14.8.4, S18.2
<ul style="list-style-type: none"> where appropriate, describe financial liability and compensation in place as required by regulation or the proponent's commitments in relation to decommissioning or abandonment; and 	S5.19.1 T19.3-1
<ul style="list-style-type: none"> describe and justify the need for compensation plans to mitigate potential effects on social and economic VCs related to Indigenous Peoples. 	S3.3.1 Note 16
12. INDIGENOUS PEOPLES	
<p>The Impact Statement must provide information on how the Project may affect Indigenous Peoples, as informed by the Indigenous communities involved in the assessment.</p> <p>The assessment of potential effects must include both adverse and positive effects to the current use of lands and resources for traditional purposes, to physical and cultural heritage, to structures, sites or things of historical, archaeological, paleontological or architectural significance, and to environmental, health, social, cultural and economic conditions of Indigenous Peoples affected by the Project.</p>	S7.14, S7.15, S10, S11, S12, S13, S14 Note 7
<p>Proponents must engage with Indigenous communities, in order to identify and understand the potential impacts of their projects on Indigenous Peoples and their rights, and to incorporate Indigenous Knowledge into the impact assessment.</p>	S3.4, S7.1, S10.6, S10.3.4, S10.4, S10.6, S10.7, S11.3.4, ..., Note 1, S14.7
<p>Indigenous VCs may be holistic in nature and may encompass the effects on a number of individual environmental, health, social, or economic value components. Where holistic VCs are identified, the proponent must combine the analysis of individual VCs into an assessment of the holistic VCs identified by Indigenous communities. For example, the proponent is expected to consider and describe the importance of Nibi (water) as a holistic VC to Indigenous communities, as noted in the Nibi Declaration of Treaty #3.</p>	S6.3, S7.1, S7.7
<p>Engagement with Indigenous communities is also required to identify proposed measures to avoid, minimize, offset, or otherwise accommodate for potential impacts on Indigenous Peoples or their rights.</p>	S10.4, S10.10, S11.4, S11.10, S12.4, S12.10, S13.4, S13.10, S14.4, S14.10
<p>In order to facilitate the participation of each Indigenous community in the development of the Impact Statement, the proponent is required to work with each Indigenous community identified in section 4 of the Indigenous Engagement and Partnership Plan to establish a mutually agreeable approach to their participation, should they wish to participate.</p>	S3.3
<p>Engagement with Indigenous communities must involve ongoing information sharing and collaboration to the extent possible to help validate the information and assessment findings in the Impact Statement.</p>	S3.3
<p>In cases where a specific study addressing elements relevant to the impact assessment of the Project has been prepared by an Indigenous community, the proponent must incorporate it into the Impact Statement and explain how it was taken into account. In addition, the proponent must append the full studies, as they were presented by each Indigenous community, except in cases where the information could be confidential in nature. The proponent must provide an opportunity for Indigenous communities to review the information prior to submission of the Impact Statement. If the information is about an Indigenous community, they must be afforded the opportunity to comment on the information in the Impact Statement and their comments should be included.</p>	S3.7, S10.4, S11.4, S12.4, S13.4
<p>The Impact Statement must indicate where input from Indigenous communities has been incorporated, including Indigenous Knowledge.</p>	S7.1, S8.3, S9.3, S10.3.4, S10.4, S11.3.4, ..., Note 1, S14.3.4, S16.4 Note 5
<p>Where applicable, sections of the Impact Statement prepared by Indigenous communities must be clearly identified. All perspectives and the rationale for different conclusions should be documented in the Impact Statement.</p>	NA
<p>Where Indigenous communities do not wish to participate, the proponent should continue sharing information and analysis with the Indigenous communities of the potential effects of the Project, to document its efforts in that respect, and to use available public sources of information to support the assessment.</p>	S3.4
12.1 Indigenous physical and cultural heritage, and structures, sites, or things of significance	
12.1.1 Baseline conditions	
<p>The Impact Statement must include a description of the baseline conditions associated with physical and cultural heritage and structures, sites, or things of significance for Indigenous Peoples.</p>	S10.7.2, S11.7.2, S12.7.2, S13.7.2, S14.7.2 ApQ-1, ApQ-2
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> include structures, sites, or things of historical, archaeological, paleontological, or architectural significance to Indigenous Peoples as a VC; 	S7.14, S7.15, S10.7.2.2 to S10.7.2.5, S11.7.2.2 to, ..., Note 1, S14.7.2.5, S7.15 Note 7
<ul style="list-style-type: none"> describe the potential effects of changes to physical and cultural heritage and to structures, sites, or things of historical, archaeological, paleontological, or architectural significance to Indigenous Peoples; 	S7.14, S10.7.3, S11.7.3, S12.7.3, S13.7.3, S14.7.3, S7.15 Note 7
<ul style="list-style-type: none"> describe the interconnections and impact pathways between heritage and cultural structures, sites, places, and things and the current use of lands, health, social, and economic components, Indigenous Knowledge, and Indigenous rights for each potentially impacted Indigenous community; describe how historical context and effects to environmental and socio-cultural conditions, including changes to those conditions, have already impacted physical and cultural heritage; include components of the environment identified by Indigenous communities as having heritage value, to reflect that natural and cultural heritage is a multidimensional concept which is not limited to particular sites or objects; 	S10.7, S10.7.2.2 to S10.7.2.5, S11.7, S11.7, S11.7.2.2, ..., Note 1, to S14.7.2.5

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> provide the location, on maps, of physical and cultural heritage features whose use or function may be impacted by the Project, when shared by Indigenous Peoples with the proponent, and if the proponent has obtained permission from the Indigenous communities for the information to be shared publicly; 	S10.7, S10.7.2.2 to S10.7.2.5, S11.7, S11.7, S11.7.2.2, ..., Note 1, to S14.7.2.5 Note 7
<ul style="list-style-type: none"> describe how input from potentially impacted Indigenous communities was sought and considered in the identification of these locations and features, including opportunities provided to participate in or lead historic resources studies (including field studies). 	S10.7, S10.7.2.2 to S10.7.2.5, S11.7, S11.7, S11.7.2.2, ..., Note 1, to S14.7.2.5
12.1.2. Effects to Indigenous physical and cultural heritage	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the nature and current condition of the heritage of any structure, site, or thing 	S7.14, S7.15, S10.7, S10.7.2.2 to S10.7.2.5, S11.7, S11.7.2.2 to, ..., Note 1, S14.7.2.5 Note 7
<ul style="list-style-type: none"> assess potential effects to physical and cultural heritage, and structures, sites, or things of historical, archaeological, paleontological, or architectural significance to Indigenous communities, including, but not limited to: <ul style="list-style-type: none"> loss or destruction of physical and cultural heritage; changes to access to and/or experience with physical and cultural heritage; changes to the cultural value, spirituality, or importance associated with physical and cultural heritage; changes to sacred, ceremonial, or culturally important places, objects, or things, including languages, stories, and traditions; and changes to visual aesthetics over the life of the Project and post-project abandonment or decommissioning; 	S7.14, S7.15, S10.7, S10.7.2.2 to S10.7.2.5, S11.7, S11.7.2.2 to, ..., Note 1, S14.7.2.5 ApO-3 Note 7
<ul style="list-style-type: none"> take into account potential effects on physical and cultural heritage when assessing the effects on social and economic conditions; 	S10.7, S10.7.2.2 to S10.7.2.5, S11.7, S11.7.2.2 to, ..., Note 1, S14.7.2.5
<ul style="list-style-type: none"> for all project activities that disturb the soil (surface or underground) conduct an archaeological assessment in consideration of provincial legislation in consultation with Indigenous communities, as appropriate, so as to integrate information about methods; 	S7.15, S10.7, S10.7.2.2 to S10.7.2.5, S11.7, S11.7.2.2 to, ..., Note 1, S14.7.2.5
<ul style="list-style-type: none"> include whether the Project could impact underwater archaeological resources; 	S7.15, S10.7.2.2 to S10.7.2.5, S11.7.2.2 to, ..., Note 1, S14.7.2.5 ApQ-2
<ul style="list-style-type: none"> provide copies of correspondence with provincial or Indigenous authorities responsible for heritage resources with comments on any physical and cultural heritage resource assessment and proposed mitigation measures; 	ApC
<ul style="list-style-type: none"> describe contingency plans and field interventions that will be applied should any archaeological or heritage resources be discovered within the PA during any phase of the Project, or cultural heritage training programs for workers; 	S7.14, S7.15, S10.7.2.2 to S10.7.2.5, S11.7.2.2 to, ..., Note 1, S14.7.2.5, S20.1.2 ApP-1, ApP-2, ApQ-2
<ul style="list-style-type: none"> explain the interconnections with and potential impacts to physical and cultural heritage from changes to pre-development and current baseline environmental, social, and economic conditions; 	S10.7.2.2 to S10.7.2.5, S11.7.2.2 to, ..., Note 1, S14.7.2.5
<ul style="list-style-type: none"> describe the outcomes of engagement and consultation activities with Indigenous communities with concerns about heritage resources in the PA and indicate the participation of the members of these communities in the related studies (e.g., archaeological studies), if applicable; 	S7.14, S7.15, S10.7.2.2 to S10.7.2.5, S11.7.2.2 to, ..., Note 1, S14.7.2.5 ApP-1, ApP-2, ApQ-1, ApQ-2
<ul style="list-style-type: none"> describe how Indigenous Knowledge informed studies, including the identification of the sites to assess and include studies conducted by Indigenous Peoples, if any; 	S10.7.2.2 to S10.7.2.5, S11.7.2.2 to, ..., Note 1, S14.7.2.5 ApP-1, ApP-2, ApQ-1
<ul style="list-style-type: none"> consider natural and cultural heritage as a multidimensional concept which is not limited to particular sites or objects and which can also include components of the environment identified by Indigenous Peoples as having heritage value; and list any other effects highlighted by Indigenous communities or other participants, if applicable. 	S10.7.2.2 to S10.7.2.5, S11.7.2.2 to, ..., Note 1, S14.7.2.5
12.2 Current use of lands and resources for traditional purposes	
12.2.1 Baseline conditions	
<p>Where information is publicly available or provided by Indigenous communities, the Impact Statement must identify and describe:</p> <ul style="list-style-type: none"> Indigenous governance systems and Indigenous laws associated with the current use of lands and resources for traditional purposes; 	S10.6.2.2.1, S11.6.2.2.1, S12.6.2.2.1, S13.6.2.2.1, S14.6.2.2.1
<ul style="list-style-type: none"> location and description of: <ul style="list-style-type: none"> Treaty lands and/or geographic extent of Treaty rights, title area, land claims or traditional territory; reserves and communities; and any Indigenous Protected and Conserved Areas; 	S10, S11, S12, S12.10, S13, S13.10, S14
<ul style="list-style-type: none"> resources important for traditional and cultural purposes (e.g., plants, fish, mammals, birds, other country foods, and other natural resources) including the following: <ul style="list-style-type: none"> berries and medicinal plants; lake whitefish, lake trout, lake sturgeon, and other large-bodied fish; moose, boreal caribou, wolverine; furbearers (e.g., American pine marten); birds; waterways, waterbodies, wetlands; and other resources identified by Indigenous communities; springs and any other potable surface water resources; the traditional and cultural significance of identified resources; the quality and quantity of identified resources (e.g., preferred species and perception of quality); 	S10.6.2, S11.6.2, S12.6.2, S13.6.2, S14.6.2

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> the types of traditional practices, including for: <ul style="list-style-type: none"> hunting, trapping, fishing, gathering, or harvesting practices; rotational harvesting practices and how they vary in time, such as berry harvesting, bait harvesting and fishing, big game hunting, and trapping of fur-bearing animals; all historic, current, and potential future uses of riverbanks, shorelines, waterways, and waterbodies navigable by Indigenous Peoples, such as for travel or recreation, including entry and exit/landing sites for watercraft; social and ceremonial purposes, as well as gathering or teaching grounds; traditional economic purposes; and other current uses identified by Indigenous communities; 	S10.6.2, S11.6.2, S12.6.2, S13.6.2, S14.6.2
<ul style="list-style-type: none"> context for traditional practices, including: <ul style="list-style-type: none"> the frequency, duration, or timing of traditional practices; access and travel routes for conducting traditional purposes (e.g. physical access to harvest specific species, culturally important harvesting locations, timing, seasonality, distance from community); important features for the experience of the practice (e.g. connection to the landscape without artificial noise and sensory disturbances, air quality, visual landscape, perceived or real contamination, etc.); and efforts by Indigenous communities to restore traditional practices; 	S10.6.2, S11.6.2, S12.6.2, S13.6.2, S14.6.2
<ul style="list-style-type: none"> locations of resources and traditional practices; (include a map, if possible); <ul style="list-style-type: none"> places where each resource important for traditional and cultural purposes are located; places where each traditional practice is undertaken including culturally important locations; cabins, camp sites and staging areas, including those used for hunting, trapping and fishing; gathering and teaching grounds for social or ceremonial purposes; and for locations identified for traditional purposes; identify whether it is used as a permanent residence or as a seasonal/temporary location, and the number of people using each identified site or area; 	S10.6.2, S11.6.2, S12.6.2, S13.6.2, S14.6.2
<ul style="list-style-type: none"> location of any Indigenous-led research or monitoring activities; and 	S10.6.4, S11.6.4, S12.6.4, S13.6.4, S14.6.4, S18.3
<ul style="list-style-type: none"> other current uses identified by Indigenous communities. 	S10.6.2, S11.6.2, S12.6.2, S13.6.2, S14.6.2
<p>The Impact Statement must also outline methods used to collect information on traditional use of lands and resources by Indigenous communities.</p>	S10.6.2.1, S11.6.2.1, S12.6.2.1, S13.6.2.1, S14.6.2.1
12.2.2 Effects to the current use of lands and resources for traditional purposes	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> assess the potential effects on the current use of lands and resources for traditional purposes due to the Project, within the historical context of the Indigenous communities, including to: <ul style="list-style-type: none"> current and future availability and quality of country foods (traditional foods); quality, quantity, and distribution of resources available for harvesting (e.g., species of cultural importance, traditional and medicinal plants); access to culturally important harvesting areas or resources, access to traditional territory, and to/from the community and reserves; access to the territory and to the distribution and availability of harvested wildlife (e.g., wildlife avoidance); the use of travel ways, navigable waterways and waterbodies; experiences of being on the land (e.g., changes in air quality, noise exposure, increased road traffic, effects of vibrations from blasting or other activities, increase in artificial light at permanent and temporary sites, fragmentation of traditional territory, visual aesthetics); sites of interest to communities including for commercial and non-commercial fishing, hunting, trapping and gathering, and cultural or ceremonial activities and practices; 	S10.6.3, S11.6.3, S12.6.3, S13.6.3, S14.6.3
<ul style="list-style-type: none"> economic burdens of, and increased time for, travelling further to hunting, fishing, trapping and gathering opportunities; and 	S10.6.3, S10.8.3, S11.6.3, S11.8.3, S12.6.3, S12.8.3, S13.6.3, S13.8.3, S14.6.3, S14.8.3
<ul style="list-style-type: none"> impacts of changes in the sensory experience of being on the land, due to noise and change in soundscape, changes in the visual landscape, and odor, and any corollary wellness impacts as a result of these sensory changes; 	S10.6.3, S11.6.3, S12.6.3, S13.6.3, S14.6.3
<ul style="list-style-type: none"> describe how information about effects to current land and resource use is integrated including how: <ul style="list-style-type: none"> changes to the access, cabins, travel ways, and harvesting and traditional land and resource use areas affects cultural values, spirituality or importance attached to physical and cultural heritage sites; changes to traditional use of cultural landscapes including important travel ways, waterways and harvesting areas associated with sacred, ceremonial, or culturally important places, objects or things, use of placenames, languages, stories, and traditions; 	S10.6.3, S11.6.3, S12.6.3, S13.6.3, S14.6.3
<ul style="list-style-type: none"> changes to visual, auditory, or olfactory aesthetics over the life of the Project and during decommissioning or abandonment of the Project affects traditional use; and impacts to harvesting and traditional use affects teaching and knowledge transfer between generations; 	S10.6.3, S10.8.3, S11.6.3, S11.8.3, S12.6.3, S12.8.3, S13.6.3, S13.8.3, S14.6.3, S14.8.3
<ul style="list-style-type: none"> describe how traditional land and resource use and cultural values informed the biophysical assessment and impact rating criteria; 	S6.6, S7.1, S8.1, S9.1
<ul style="list-style-type: none"> describe potential effects from increased population from in-migration of workers on traditional hunting, fishing, trapping, harvesting, and gathering activities; 	S7.13.5
<ul style="list-style-type: none"> describe potential effects on the transmission of traditional knowledge, language, community tradition of sharing, and community cohesion linked to activities potentially affected by the Project; 	S10.8.3, S11.8.3, S12.8.3, S13.8.3, S14.8.3
<ul style="list-style-type: none"> take into account expectations pertaining to the preservation of landscapes, including nighttime landscapes and, if applicable, regulatory requirements and best practices in place concerning light pollution (the proponent needs to work with communities to ensure that any standards that are applied are protective of traditional uses and purposes and human health); 	ApG
<ul style="list-style-type: none"> describe the methods used to collect information on traditional use of lands and resources by Indigenous communities; 	S10.6.2.1, S11.6.2.1, S12.6.2.1, S13.6.2.1, S14.6.2.1
<ul style="list-style-type: none"> describe how the traditions, perspectives, values, and knowledge of Indigenous communities have been considered in determining the severity of the Project in consideration of historic context and effects to environmental and socio-cultural conditions affecting Indigenous land and resource use 	S10.6.3, S10.7.3, S10.8.3, S11.6.3, ..., Note 1, S14.8.3
<ul style="list-style-type: none"> describe how the results of the biophysical assessment were integrated in the traditional land and resource use assessment and considered in the determining residual effects and the severity of impacts; 	S10.6.2.1, S11.6.2.1, S12.6.2.1, S13.6.2.1, S14.6.2.1
<ul style="list-style-type: none"> provide a detailed explanation of how comments from Indigenous communities and Indigenous Knowledge informed the assessment of potential effects to current use of lands and resources for traditional purposes; 	S10.6.2, S10.6.3, S11.6.2, S11.6.3, S12.6.2, S12.6.3, S13.6.2, S13.6.3, S14.6.2, S14.6.3
<ul style="list-style-type: none"> describe all reasonable alternatives considered that would avoid impacts on current use of lands and resources for traditional purposes considered during project development; 	S4.3, S4.5

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> describe and assess the interconnections and impact pathways between the current use of lands and resources and health, social, and economic components, Indigenous Knowledge, and Indigenous rights for each Indigenous community, including; 	S10.6.6, S11.6.6, S12.6.6, S13.6.6, S14.6.6
<ul style="list-style-type: none"> take into account expectations pertaining to the preservation of landscapes, including nighttime landscapes and, if applicable, regulatory requirements in place concerning light pollution; 	S10.6.6, S11.6.6, S12.6.6, S13.6.6, S14.6.6 ApG
<ul style="list-style-type: none"> describe how Indigenous Peoples who participated in the gathering of traditional use information took part in the impact assessment and in the development of proposed mitigation measures, including undertaking their own assessment of effects; and 	S10.3.4, S11.3.4, S12.3.4, S13.3.4, S14.3.4 Note 6, Note 17
<ul style="list-style-type: none"> include all Indigenous comments on potential effects to current use of lands and resources for traditional purposes. 	S10.3.4, S11.3.4, S12.3.4, S13.3.4, S14.3.4 Note 6, Note 17
12.3 Health, social, and economic conditions of Indigenous Peoples	
12.3.1 Baseline conditions	
The Impact Statement must meet the requirements set out in sections 9, 10, and 11 with regard to the effects to health, social, and economic conditions, which must take into account GBA Plus specific to Indigenous Peoples.	S10.5.5, S10.6.5, S10.7.5, S10.8.5, S11.5.5, ..., Note 1, S14.8.5 ApO-1
The baseline conditions established for Indigenous communities must take into account Indigenous governance regimes and Indigenous laws associated with health and socio-economic conditions. The baseline conditions should provide community-specific social and economic conditions on a disaggregated basis (without identifying individuals).	S10.6.2.2.1, S11.6.2.2.1, S12.6.2.2.1, S13.6.2.2.1, S14.6.2.2.1
12.3.2. Effects to Indigenous health, social, and economic conditions	
The Impact Statement must meet the requirements set out in sections 9, 10, and 11 with regard to the effects to health, social and economic conditions. The assessment of these effects to Indigenous Peoples must describe and take into account interactions with the effects on physical and cultural heritage, on structures, sites, or things of significance, and on the current use of lands and resources for traditional purposes.	S10, S11, S12, S13, S14
12.4 Rights of Indigenous Peoples	
12.4.1 Baseline conditions	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> identify and describe the Treaty and Aboriginal rights of Indigenous Peoples potentially affected by the Project, including historic, regional, and community context, the geographic extent of traditional territory, the purpose and importance of the rights to the rights-bearing communities (e.g., the practices, customs, beliefs, worldviews, and livelihoods), and information on how rights have already been affected. The description should include maps, when shared by Indigenous Peoples with the proponent, and if the proponent has obtained permission from the Indigenous communities for the information to be shared publicly, to illustrate the location of treaties, traditional territories, and Métis harvesting zones; 	S10, S11, S12, S12.10, S13, S13.10 S14
<ul style="list-style-type: none"> document the nature and extent of the exercise of rights of Indigenous Peoples, potentially impacted by the Project, as identified by the Indigenous community(ies); 	S10.10, S11.10, S12.10, S13.10, S14.10
<ul style="list-style-type: none"> consider how the information requirements related to physical and cultural heritage, current use, Indigenous health, social, and economic conditions are applicable to the nature and extent of the exercise of rights; 	S12.10, S13.10
<ul style="list-style-type: none"> consider how the information requirements related to historic context of Indigenous communities are applicable to the baseline conditions supporting the exercise of rights; 	S12.10.1, S13.10.1
<p>The information related to the rights of Indigenous Peoples may include, but is not limited to:</p> <ul style="list-style-type: none"> a general description of the rights of Indigenous Peoples potentially affected by the Project, including the historic, regional, and community context. The description should include maps, when shared by Indigenous Peoples with the proponent, and if the proponent has obtained permission from the Indigenous communities for the information to be shared publicly, to illustrate the location of areas with titles, land claims and traditional territories; the quality and quantity of resources required to support the exercise of rights (e.g. preferred species); access to the resources required to exercise rights (e.g. physical access to culturally important places, timing, seasonality, distance from community); the experience associated with the exercise of rights (e.g. noise and sensory disturbances, air quality, visual landscape); specific areas of cultural importance where rights are exercised, including around the Dixie Creek, Rice Lake, Chukuni River, and Pakwash Lake; landscape, social and cultural conditions that support the Indigenous community's exercise of rights (e.g. large, intact, and diverse landscapes, areas of solitude; connection to landscape, sense of place; language; Indigenous Knowledge; clean water, biodiversity, abundance, distribution, and quality of wildlife and vegetation); 	S12.10.2, S13.10.2
<ul style="list-style-type: none"> Indigenous governance systems and Indigenous laws associated with the exercise of rights; 	S10.6.2.2.1, S11.6.2.2.1, S12.6.2.2.1, S13.6.2.2.1, S14.6.2.2.1
<ul style="list-style-type: none"> where possible, information about members within an Indigenous community, and their role in the exercise of rights (e.g. women, men, Elders, youth, two-spirited people, people with disabilities); 	S3.2
<ul style="list-style-type: none"> how the Indigenous community's cultural traditions, laws and governance systems, social values, access, and patterns of occupation and preferences inform the manner in which they exercise the rights (the who, what, when, how, where, and why); 	S12.10.1.3, S13.10.1.3
<ul style="list-style-type: none"> where they exist, identification of thresholds identified by the community that, if exceeded, may impair the ability to meaningfully exercise rights; 	S3.3
<ul style="list-style-type: none"> maps and data sets (e.g. overlaying the project footprint, places of cultural and spiritual significance, traditional territories, fish catch numbers); and 	Note 6
<ul style="list-style-type: none"> pre-existing impacts that are already interfering with the ability to exercise rights or to pass along Indigenous cultures and cultural practices (e.g. language, ceremonies, Indigenous Knowledge). 	S12.10.1.2, S13.10.1.2
12.4.2 Impacts on rights of Indigenous Peoples	
The Impact Statement must describe the level of engagement with Indigenous communities regarding potential impacts of the Project on the exercise of rights, and where possible, the Project's potential interference with the exercise of rights.	S14.10
Where an Indigenous community has not provided its views on the impact of the Project on their rights to the proponent, or both parties agree that it is better to provide information related to the impact on the exercise of rights directly to the Agency, the proponent should describe a rationale for the approach taken to assessing impact on rights.	S14.10

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> document the Project's potential impacts on the exercise or practice of the rights of Indigenous Peoples or the rights arising from treaties in the PA, as expressed by potentially impacted Indigenous Peoples; describe the impact on the rights of Indigenous Peoples, taking into account the concept of the link between resources, access, and experience; document the views of potentially affected Indigenous Peoples regarding the severity of impact that the Project could have on their rights; and describe how the results of the traditional land and resource use assessment, the cultural heritage assessment, health and socio-economic assessment of Indigenous Peoples were integrated in the assessment of impacts on the exercise of rights of Indigenous Peoples and considered in the determining residual effects and the severity of impacts. 	S12.10.2, S13.10.2
<p>The proponent, in collaboration with Indigenous communities, should consider the following factors as relevant:</p> <ul style="list-style-type: none"> how, given the historical context of Indigenous communities, the Project may contribute cumulatively to any existing impacts on the exercise of rights, as identified by the Indigenous community(ies); the interference of the Project on the quality and quantity of resources available for the exercise of rights; how the Project affects the ability to travel freely in the territory; the effects of the Project on the access to areas important to the exercise of rights; the effects of the Project on the experience associated with the exercise of rights, including the ability of Indigenous communities to exercise their rights in a peaceful manner (e.g., without changes in connection to land, well-being, knowledge of the landscape, air quality, noise exposure, effects of vibrations, artificial light, fragmentation, visual aesthetics, safety); the effects of the Project on Indigenous traditions, laws, and governance; how the Project will affect the planning, management, or stewardship of traditional lands and resources by Indigenous Peoples; how the Project will affect the ability of Indigenous Peoples to derive future economic benefits from the land or water, or to maintain an ongoing relationship with the land or water; the way that the Project is aligned with the values, political direction and/or objectives of Indigenous Peoples' actions to mitigate or to adapt to a changing climate; the manner in which the Project and its impacts weaken or strengthen the authority of Indigenous Peoples on their territory; how the Project affects all other components of significance identified by Indigenous communities; and the severity of the impacts on the exercise of rights, as identified by the Indigenous communities. 	S12.10.2, S13.10.2, S17
12.5 Mitigation and enhancement measures	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the proposed mitigation and enhancement measures for all potential effects to Indigenous Peoples, including potential impacts to the current use of lands and resources for traditional purposes (e.g., hunting, gathering, fishing, and any other traditional practices associated with these activities), potential effects to cultural and physical heritage, and potential impacts on the rights of Indigenous Peoples: <ul style="list-style-type: none"> be clear about which specific measures are designed to manage each specific pathway of effect; identify if these are measures for which the proponent or other parties would be responsible; elaborate on how these measures may vary for each Indigenous community or Peoples; elaborate on how input from Indigenous communities informed these mitigation and enhancement measures; describe if and how these measures will be integrated into the project design, if applicable; include perspectives of the potentially impacted Indigenous communities, on the effectiveness of particular mitigation measures on such impacts; describe collaboration with Indigenous Peoples to identify preferred mitigation measures for potential adverse impacts on Indigenous communities or their rights, as well as to optimize the Project's benefits for their communities; 	S10.5.4, S10.6.4, S10.7.4, S10.8.4, S10.9.4, S11.5.4, ..., Note 1, S14.9.4
<ul style="list-style-type: none"> demonstrate how the timing of Indigenous activities on the land was considered when establishing the schedule for project activities; 	Note 18
<ul style="list-style-type: none"> provide any intervention and communication plans, as applicable, pertaining to heritage resources and structures, sites, and things of cultural, historical, archaeological, paleontological, or architectural significance, if there is a possibility of discovery during construction or development activities. This plan must include, at a minimum, the person to be contacted, intervention measures and the conditions that would lead to a shutdown and resumption of work; 	S10.7.4, S11.7.4, S12.7.4, S13.7.4, S14.7.4
<ul style="list-style-type: none"> provide copies of correspondence with provincial or Indigenous authorities responsible for heritage resources with comments on any physical and cultural heritage resource assessment and proposed mitigation measures; 	Note 18
<ul style="list-style-type: none"> describe the measures that will be implemented by the proponent for the potential impacts of the Project on the exercise of rights, including how the measures directly address the possible impacts of the Project on the exercise of rights and the scope of the measures; 	S10.5.4, S10.6.4, S10.7.4, S10.8.4, S11.5.4, ..., Note 1, S14.8.4
<ul style="list-style-type: none"> describe the measures that would enhance or support the exercise of rights in the PA (e.g. employment, procurement, and monitoring measures); 	S10.8.4, S11.8.4, S12.8.4, S13.8.4, S14.8.4
<ul style="list-style-type: none"> propose differentiated mitigation measures, if applicable, so that adverse effects do not fall disproportionately on Indigenous communities and diverse vulnerable population groups, and they are not disadvantaged in sharing any positive effect resulting from the Project. These mitigation measures should be developed in collaboration with the potentially affected communities and diverse population groups; 	Note 19
<ul style="list-style-type: none"> describe how the GBA Plus results on disproportionate effects have been used to inform mitigation and enhancement measures; 	Note 19
<ul style="list-style-type: none"> describe predicted climate change considerations for VCs and incorporate climate change adaptation into reclamation planning; 	S5.19, S5.19.3.4 ApS (Preface, S9.3,
<ul style="list-style-type: none"> describe the measures that would return the site to a state that is safe and productive for traditional use activities, such as hunting, fishing, and gathering of traditional medicines or foods during the decommissioning and abandonment phases; 	S5.19.4.2 ApS (S11.1)
<ul style="list-style-type: none"> describe how the proponent has addressed the suggestions and recommendations made by potentially affected Indigenous Peoples including where Indigenous Knowledge was provided and considered in respect of the design of mitigation measures; 	S7.1, S8.3, S9.3, S16.4 Note 4
<ul style="list-style-type: none"> describe accommodation, mitigation, and complementary measures for impacts to previously known heritage and structures, sites, and things of significance, or those identified in the course of impact assessment and other field studies; and 	Note 20
<ul style="list-style-type: none"> provide available evidence of the effectiveness for all mitigation measures related to potential effects to Indigenous communities. Where no evidence exists, describe plans to monitor the effectiveness of mitigation measures. The proponent is encouraged to share results with Indigenous communities and to monitor the effectiveness of mitigation measures in cooperation with Indigenous communities. 	S20
<p>Where no mitigation measures are proposed or mitigation is not possible, the Impact Statement must describe the potential adverse impacts on the rights of Indigenous Peoples, as identified by the Indigenous community(ies).</p>	S12.10.3, S13.10.3

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
In addition, the Impact Statement must include perspectives of the potentially impacted Indigenous communities on the effectiveness of particular mitigation measures on such impacts.	S10.3.4, S11.3.4, S12.3.4, S13.3.4, Note 21
13. EFFECTS OF POTENTIAL ACCIDENTS OR MALFUNCTIONS	
13.1 Risk assessment	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> identify hazards for each project phase (construction, operation, decommissioning, and abandonment), that could lead to events of accidents and malfunctions related to the Project (e.g. structural failure of the open pit or tailings storage facility, or uncontrolled release of hazardous materials) and provide an explanation of how these events were identified (e.g. information sources, recognized risk assessment methodology, professional expertise, similar project, participants' input); take into account the lifespan of different project components, design of different project components, complicating factors such as weather or external events, and the potential for vandalism or sabotage; 	S16.5
<ul style="list-style-type: none"> conduct an analysis of the risk of each hazard and adverse event (including likelihood and consequences) and describe the potential consequences (including the environmental, health, social, and economic effects and effects to Indigenous Peoples); describe the plausible worst-case scenarios and the more-likely but lower-consequence alternative scenarios, including: <ul style="list-style-type: none"> the magnitude, duration, and extent of effects; the quantity, mechanism, rate, form, and characteristic of contaminants, greenhouse gases, and other materials released or discharged into the environment; influence of local and regional terrain, topography, and weather conditions (e.g. difficult access for interventions); modelling for any contaminants spilled, or released indirectly into water or air; potential environmental, health, social, and economic effects, including effects to Indigenous peoples. With respect to human health specifically, consideration should be given to potential pathways of effects associated with groundwater and surface water, air, country foods, and other relevant media, including short-term and long-term risks to human health; relative locations of sensitive receptors (e.g. humans, fish and/or wildlife and their habitat, waterways, private drinking water wells); timing related to sensitive receptors (e.g. migration and nesting periods of migratory birds, spawning periods for fish, hunting season, tourist season); and critical infrastructure, such as local drinking water treatment plants or facilities that can treat water sources affected by the Project, as well as the ability and capacity of the drinking water treatment plants or facilities to treat water sources affected by accidental releases from the Project during all project phases; 	S16.6 to S16.20, S16.21 T16-1, T16-2, T16-3
<ul style="list-style-type: none"> identify and justify the spatial and temporal boundaries for the effect assessment associated with accidents and malfunctions. 	S16.2
<ul style="list-style-type: none"> provide environmental sensitivity mapping that identifies site-specific conditions and sensitive receptors adjacent to project activities, including shores, streams, and wetlands frequented by fish and/or migratory birds, and likely routes to them. 	F8.4-4 ApM-1 (F26)
<ul style="list-style-type: none"> Shoreline classification surveys and mapping must be conducted along major waterways where large spills are possible. 	NA
13.2 Mitigation measures	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the mitigation measures and safeguards that would be in place to avoid and prevent accidents and malfunctions, including project design choices and operational considerations, including engineering, safety and risk reduction standards, criteria, and approaches to be used (e.g. spacing, fire protection, prevention of leaks of toxic chemicals such as cyanide, active fire suppression and explosion/overpressure minimization); describe the proposed security measures to reduce the potential for vandalism or other malicious acts that could lead to accidents or malfunctions; describe the mitigation measures for the potential adverse environmental, health, social, and economic effects, including effects to Indigenous peoples, in the event of an accident or malfunction, such as emergency response and repair procedures that would be put in place; describe long-term monitoring and recovery measures that would be implemented to manage effects to the environment and health, social and environmental conditions, including effects to Indigenous Peoples, from accidents and malfunctions, including those to remediate affected lands and waters; provide details of financial liability and compensation measures in place pursuant to regulations or the proponent's commitment in case of potential accidents or malfunctions associated with the Project; describe mutual aid arrangements in the event that the incident exceeds proponent resources and how to access these resources; and describe the expected effectiveness of the mitigation measures, safeguards, and response measures and systems. 	S16.6 to S16.20
13.3 Emergency management	
<p>The Impact Statement must describe an emergency response plan and as part of this plan must:</p> <ul style="list-style-type: none"> identify emergency planning and emergency response zones; present preliminary emergency measures to respond to such events, including identifying associated response systems and capabilities; take into account evacuation areas in the planning of emergency measures as well as the particularities linked to these areas (e.g. number of residents varying with the seasons, possible high number of individuals unfamiliar with the region, limited communication means in remote areas and with temporary residents); describe existing emergency preparedness and response systems and existing arrangements and/or coordination with the responsible response organizations in the spatial boundaries associated with the Project. The spatial boundaries identified for effects from potential accidents and malfunctions will generally be larger than the boundaries for the project effects alone; describe how the proponent will integrate its response operations into an incident management system (e.g. the Response Command System, Incident Command System) when deploying a significant incident response effort; describe the role of the proponent in the case of spill, collision, grounding, or other accidents or malfunctions associated with the Project; describe emergency response training and exercise programs, including a description of the participation and training agreements with Indigenous communities or communities that could be impacted by accidents or malfunctions; document spill response strategies for each type of spill scenario, including strategic locations of spill response equipment relative to likely accident and malfunction sites and/or likely pathways to sensitive environmental receptors; describe emergency communication and public notification plans, community awareness plans, and public reporting, including plans for translations in Indigenous languages, as appropriate; describe emergency communication plans that would provide emergency instructions to surrounding communities, including Indigenous communities, and how these will be informed by the public and Indigenous communities. The proponent should consider including: <ul style="list-style-type: none"> describe liaison and continuous education plans linked to emergency preparedness for surrounding communities that may be affected by the consequences of a significant incident, including for Indigenous communities; explain how the proponent has made and will continue to make an outreach effort to ensure public and Indigenous communities understanding the risks associated with this type of project (e.g. providing non-technical information, providing information in local languages if requested); and describe any waste management plan as it pertains to waste generated during an emergency response. 	S16.22, S18.8.4 ApU-2
14. EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
<p>The Impact Statement must consider and describe how environmental conditions, including natural hazards such as severe and/or extreme weather conditions and external events could adversely affect the Project and how this in turn could result in effects to the environment, health, social, and economic conditions.</p> <p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe how environmental conditions, including natural hazards such as severe and/or extreme weather conditions and external events, could adversely affect the Project and how this in turn could result in effects to the environment, health, social, and economic conditions; describe mitigation measures that can be implemented in anticipation or in preparation for effects of the environment on the Project; describe possible mitigation measures to address adverse environmental, health, social, and economic effects resulting from effects of the environment on the Project; describe measures to enhance positive environmental, health, social, and economic effects resulting from effects of the environment on the Project; 	S17

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
<ul style="list-style-type: none"> describe the Project's climate resilience and how the impacts of climate change have been integrated into the project design and planning throughout the life of the Project, and describe the climate data, projections, and related information used to assess risks over the life of the Project; identify the Project's sensitivities and vulnerabilities to changes in climate (both in mean conditions and extremes such as short-duration heavy precipitation events); describe all known and relevant trends in meteorological events, weather patterns, or physical changes in the environment that are expected to result from climate change, and incorporate this information into a risk assessment as contributing or complicating factors for accidents and malfunctions (e.g. increased risk of forest fires). Provide mitigation measures (both passive and active) that the proponent is prepared to take to minimize the frequency, severity, and consequences of these projected effects; identify any areas of potential wind or water erosion; and 	S17.9.5 T17.9-1 F17.9-1, F17.9-2 ApW-4
<ul style="list-style-type: none"> assess the potential effects of seismic events on facilities and specify the soil movement parameters that will be used with the probability of occurrence (e.g. 2% in 50 years) and the best practice codes and guides that are or will be used in the seismic effects analysis (e.g. National Building Code of Canada 2020, CAN/CSA-Z662 standard). 	S17.8 T17.8-1
15. CANADA'S ABILITY TO MEET ITS ENVIRONMENTAL OBLIGATIONS	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> describe the extent to which the likely effects of the Project could hinder or contribute to Canada's ability to meet its environmental obligations, including: <ul style="list-style-type: none"> the proponent's plans and commitments to ensure that positive contributions are respected; and any mitigation or follow-up program related to those likely effects of the project. 	S9.2.1.1, S18.6, S18.7, ApW-1, ApW-2, ApW-4
16. SUSTAINABILITY	
<p>The Impact Statement must:</p> <ul style="list-style-type: none"> provide an analysis of the extent to which the Project's likely effects contribute to sustainability. The analysis should be qualitative but may draw on quantitative data to provide context, and should follow the methodology and sustainability principles outlined in the Guidance: Considering the Extent to which a Project Contributes to Sustainability and must: <ul style="list-style-type: none"> consider the interconnectedness and interdependence of human-ecological systems; consider the well-being of present and future generations; consider positive effects and reduce adverse effects of the Project; and apply the precautionary principle and consider uncertainty and risk of irreversible harm; 	S18.6, S18.7, ApW-1, ApW-2, ApW-4, ApW-5
<ul style="list-style-type: none"> describe engagement with potentially affected Indigenous communities and outline measures and commitments that contribute to the sustainability of Indigenous livelihood, traditional use, culture, and well-being: <ul style="list-style-type: none"> include any description of sustainability as defined by Indigenous communities; describe the project-specific context, including key issues of importance to Indigenous communities, and key issues, community plans, and/or strategies of importance to the public that will inform the sustainability assessment; 	S10, S11, S12, S13, S14 Note 22
<ul style="list-style-type: none"> describe how the sustainability principles were considered in: <ul style="list-style-type: none"> the assessment of the likely effects of the Project, including setting spatial and temporal boundaries, and identifying mitigation and enhancements; and the planning and design of the Project and the selection of the preferred alternative means and alternatives to the Project; describe and document uncertainties and assumptions underpinning the analysis; describe how the precautionary principle was applied in cases where there may be risk of irreversible harm; and indicate how monitoring, management, and reporting systems consider the sustainability principles and attempt to ensure continuous progress towards sustainability. 	S18.7, S18.8 T18.5-1
17. FOLLOW-UP PROGRAMS	
17.1 Follow-up program framework	
<p>The Impact Statement must present a follow-up program that includes:</p> <ul style="list-style-type: none"> identification of VCs that warrant a follow-up program and rationale taking into account the guidance on follow-up programs cited above; the expected outcome(s) and targets of the follow-up program and information describing how the proponent expects to achieve the expected outcome(s); preliminary description of follow-up studies planned, as well as their main characteristics (e.g. list of parameters to be measured, planned implementation timetable); triggers and intervention mechanisms used in the event that the effects to the environment or impacts on rights of Indigenous peoples and cultures attributed to the Project are not as predicted; mechanism to disseminate follow-up results among the concerned interested parties; consideration of accessibility and sharing of data for the general population; and opportunities for the involvement of Indigenous communities, stakeholders, and local and regional Indigenous organizations in the follow-up program design and implementation and the development of a communication mechanism between these organizations and the proponent. 	S20
17.2 Follow-up program monitoring	
<p>For the proposed follow-up framework, the Impact Statement must present the preliminary environmental, health, social and economic monitoring program, including, but not limited to the:</p> <ul style="list-style-type: none"> identification of regulatory instruments that include a monitoring requirement for the VCs; description of the methodology for tracking environmental, health, social, and economic issues; description of the methodology and mechanism for monitoring the effectiveness of mitigation and reclamation; description of the characteristics of monitoring where foreseeable (e.g. location of interventions, planned protocols, list of measured parameters, analytical methods employed, schedule, data management, human and financial resources required); a description of the indicators to be used to assess progress towards expected outcomes and a rationale for their selection; an explanation of how any differences in predicted effects versus actual measured effects will be attributed to either uncertainty related to predictions or to effectiveness of the mitigation measures; identification of the monitoring activities that could pose a risk to the environmental, health, social, and economic conditions and/or VCs and the measures and means planned to protect these conditions; guidelines for preparing monitoring reports (number, content, frequency, format, duration, geographic extent) that will be sent to the authorities involved; and plans, including funding options, to involve Indigenous communities and local communities in monitoring and follow-up programs, where appropriate. 	S20
17.3 Compliance monitoring	
<p>The Impact Statement must present a framework by which it will undertake compliance monitoring for follow-up programs. This should include, but not be limited to:</p> <ul style="list-style-type: none"> identification of those positions accountable and responsible for monitoring and ensuring compliance; description of the proponent's intervention mechanisms in the event of the observation of non-compliance with the legal and environmental requirements or with the obligations imposed on contractors by the provisions of their contracts; and quality assurance and quality control measures to be applied to monitoring programs. 	S20.2.2
17.4 Adaptive management plans	
<p>Proponents should consider adaptive management as a means to address high uncertainties associated with the effectiveness of mitigation measures or predicted effects and to help ensure expected outcomes are achieved. Opportunities may be provided for the involvement of Indigenous communities, where appropriate</p>	S20.5

Tailored Impact Statement Guidelines Key Topics	Key Text (Note 1)
18. ASSESSMENT SUMMARY	
<p>The proponent must prepare a stand-alone plain language summary of the Impact Statement in both of Canada's official languages (French and English).</p> <p>The Impact Statement should also <u>include a series of tables summarizing the following information</u>:</p> <ul style="list-style-type: none"> • potential environmental effects, and changes to health, social, and economic conditions and the potential impacts on Indigenous Peoples; • potential mitigation and enhancement measures in relation to potential effects and impacts; • description of the residual effects of the Project; • cumulative effects and proposed mitigation measures to address them; • any other commitments made by the proponent, such as adaptive management, or recommendations made by the proponent to other parties, such as program enhancements or other complementary measures that can help manage effects; and • the extent to which adverse effects within federal jurisdiction and the direct or incidental adverse effects are significant based on the characterization of residual and of cumulative effects. 	Summary

Notes:

A higher level of detail is provided for concordance of the Impact Statement with the Tailored Impact Statement Guidelines for areas of federal jurisdiction.

Location of corresponding key information in the Impact Statement:

- S Section
- F Figure
- T Table
- Ap Appendix; applicable appendix sections, figures or tables are shown in brackets (S, F, T)
- Att Attachment

1. ,..., Key text references continue utilizing the same numbering approach for other subsections.
2. See also authors in reports provided in appendices.
3. See also individual subsections by topic.
4. Great Bear Resources has made diligent efforts to respond to public concerns and address as reasonable.
5. Also included in other locations throughout document as information was shared and applicable.
6. Confidential information has not been provided in the Impact Statement.
7. Archaeology and cultural heritage are assessed as pVCs, as well as within the fVC Indigenous Peoples.
8. Indigenous knowledge and traditional land use reports have been shared with Great Bear Resources confidentially.
9. Mitigation measures include a mix of Project design measures, operational policies and community partnerships for environmental monitoring. The goal with these limitations is to reduce the magnitude, duration and likelihood of adverse residual effects. Over Project life additional mitigation measures to align with this goal will be considered.
10. Adaptive management is proposed, but no specific adaptive management plans are required by the Project. An adaptive management framework is provided in Section 20.5.
11. There are no historical development or mining operations on the Property or nearby.
12. See also figures and tables referenced within the related subsections.
13. Apart from within the Project Area itself, wetland crossings not proposed.
14. Information regarding tolerance thresholds for adverse effects to health were not available
15. There are no known situations where the Project may create economic hardships or displacement of Indigenous businesses.
16. Section 3.3.1 outlines current agreements in place and no compensation plans are identified as a result of Project-related activities and the Social Performance Plan will incorporate monitoring to confirm.
17. Specific comments, quotes and locations provided through interviews, and Indigenous knowledge and land use interviews are held in confidence and are not included in the Impact Statement.
18. Available on request.
19. No differentiated mitigation measures are proposed. Mitigation measures include consideration of diverse groups and potential for disproportionate adverse effects.
20. There are no known heritage and structures, sites and things that have been previously impacted.
21. Potential effects have mitigation measures and are considered effective in reducing adverse impact. Indigenous communities will be involved in follow-up monitoring to confirm mitigation effectiveness over the Project life.
22. Measures and commitments that contribute to the sustainability of Indigenous livelihood, traditional use, culture, and well-being are considered in the Impact Statement. Sustainability was not otherwise raised by any of the Indigenous Nations during consultation and engagement to date.

Other abbreviations

- incl.: including
- NA: not applicable to this Project
- pVC: Pathway valued component
- fVC: Valued component under federal jurisdiction
- PA: Project Area.