

Appendix B1: Environmental Impact Statement Guidelines Concordance Table

#	Requirements / Commitments	Final EIS/EA Reference
PART 1 - BACKGROUND		
1. Introduction		
1	Include a full description of the changes the project will cause to the environment that may result in adverse effects on areas of federal jurisdiction (i.e. section 5 of CEAA 2012) including changes that are directly linked or necessarily incidental to any federal decisions that would permit the project to be carried out.	7.0 – 19.0, 24.2
2.2 Public Participation		
2	Provide current information about the project to the public and especially to the communities likely to be most affected by the project.	3.3, 3.6.1
2.3 Aboriginal Engagement		
3	Provide Aboriginal groups with opportunities to learn about the project and its potential effects, make their concerns known about the project's potential effects and discuss measures to mitigate those effects.	3.6
4	Make reasonable efforts to integrate traditional Aboriginal knowledge into the assessment of environmental impacts.	3.6.3.2, 3.6.4, 4.1.5, 7.1.3 - 19.1.3, 18.0, 20.2.5, 21.1, 22.2.6, 23.5
2.4 Application of the Precautionary Approach		
5	Demonstrate that all aspects of the project have been examined and planned in a careful and precautionary manner in order to avoid significant adverse environmental effects.	4.0 – 19.0
3.3.2 Valued Components to be Examined		
6	Identify the VCs linked to section 5 of CEAA 2012, including the ones identified in Part 2 (section 6.2) that maybe affected by changes in the environment, as well as species at risk and their critical habitat as per the requirement outlined in section 79 of the Species at Risk Act.	6.2.2, 24.0
7	Present the final list of VCs according to the evolution and design of the project and reflect the knowledge acquired on the environment through public consultation and Aboriginal engagement.	6.2.2, 7.1.2 – 17.1.2, 18.1.4, 19.1.2
8	Describe what methods were used to predict and assess the adverse environmental effects of the project on these components.	6.0, 7.4.1 – 19.4.1
9	Describe the VCs in sufficient detail to allow the reviewer to understand their importance and to assess the potential for environmental effects arising from the project activities.	7.0 – 19.0

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10	Provide a rationale for selecting specific VCs and for excluding any VCs or information specified in these guidelines.	3.6.4.2, 3.6.4.3
11	Identify those VCs, processes, and interactions that either were identified to be of concern during any workshops or meetings held by the proponent or that the proponent considers likely to be affected by the project. Indicate to whom these concerns are important and the reasons why, including environmental, Aboriginal, social, economic, recreational, and aesthetic considerations.	3.4.2.1, 3.5.2.3, 3.6.4, 7.1.2 – 19.1.2
12	If comments are received on a component that has not been included as a VC, these comments will be summarised.	3.6.4.2, 3.6.4.3
3.3.3 Spatial and Temporal Boundaries		
13	Describe the spatial boundaries to be used in assessing the potential adverse environmental effects of the project and provide a rationale for each boundary.	6.2.4, 7.1.5 – 19.1.5
14	Spatial boundaries will be defined taking into account the appropriate scale and spatial extent of potential environmental effects, community and Aboriginal traditional knowledge, current land and resource use by Aboriginal groups, ecological, technical and social and cultural considerations.	6.2.4, 7.1.3 – 19.1.3, 7.1.5 – 19.1.5,
15	The temporal boundaries of the EA will span all phases of the project determined to be within the scope of this environmental assessment.	6.2.5, 7.1.5 – 19.1.5
16	If the temporal boundaries do not span all phases of the project, identify the boundaries used and provide a rationale.	N/A – the temporal boundaries used span all phases of the Project.
4.2 Study Strategy and Methodology		
17	If matters identified in the EIS Guidelines are omitted from the EIS, the proponent will clearly indicate it, and provide a justification so the Agency, federal authorities, Aboriginal groups, the public and any other interested party have an opportunity to comment on this decision.	Appendix B1
18	The assessment will include identifying the activities and components of the project	5.0
19	The assessment will include predicting potential changes to the environment	7.4 – 19.4
20	The assessment will include predicting and evaluating the likely effects on identified valued components	7.4 – 19.4
21	The assessment will include identifying technically and economically feasible mitigation measures for any significant adverse environmental effects	7.4 – 19.4
22	The assessment will include determining any residual environmental effects	7.4 – 19.4, 24.0

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23	The assessment will include determining the potential significance of any residual environmental effect following the implementation of mitigation	7.5 – 19.5
24	For each VC, describe the methodology used to assess project-related effects. Document how scientific, engineering, traditional and local knowledge, including Aboriginal traditional and local knowledge, were used to reach conclusions. Assumptions will be clearly identified and justified.	7.1.3 – 19.1.3, 7.4.1 – 19.4.1
25	All data, models and studies will be documented such that the analyses are transparent and reproducible. All data collection methods will be specified. The uncertainty, reliability and sensitivity of models used to reach conclusions must be indicated.	Appendix E/F
26	Identify all significant gaps in knowledge and understanding related to key conclusions, and the steps to be taken by the proponent to address these gaps.	7.6 – 19.6
27	Where the conclusions drawn from scientific, engineering and technical knowledge are inconsistent with the conclusions drawn from traditional knowledge, the EIS will contain a balanced presentation of the issues and a statement of the proponent's conclusions.	N/A – a combination of scientific, engineering, technical and traditional knowledge was used to complete the assessment, resulting in conclusions consistent with scientific, engineering, and technical knowledge, and traditional knowledge
28	Include a description of the environment (both biophysical and human), including the components of the existing environment and environmental processes, their interrelations as well as the variability in these components, processes and interactions over time scales appropriate to the likely effects of the project. The description will be sufficiently detailed to characterize the environment before any disturbance to the environment due to the project and to identify, assess and determine the significance of the potential adverse environmental effects of the project.	7.2 – 19.2
29	Include environmental conditions resulting from historical and present activities in the local and regional study area.	2.0 7.2 – 19.2 Appendix L

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30	Take an ecosystem approach that considers both scientific and traditional knowledge, including Aboriginal traditional and local knowledge, and perspectives regarding ecosystem health and integrity.	6.3, 6.4.1.3, 7.0 – 19.0
31	Consider the resilience of relevant species populations, communities and their habitats, including Aboriginal traditional and local knowledge with respect to species identified by Aboriginal communities as valued components.	11.0, 12.0, 13.0, 18.0
32	In describing and assessing effects related to Aboriginal peoples, the proponent will consider the use of both primary and secondary sources of information regarding baseline information, changes to the environment and the corresponding effect on health, socio-economics, physical and cultural heritage or current use of lands and resources for traditional purposes.	18.0
33	Provide Aboriginal groups the opportunity to review and provide comments on the information used for describing and assessing effects on Aboriginal peoples.	3.6
34	Where there are discrepancies in the views of the proponent and Aboriginal groups on the information to be used in the EIS, the EIS will document these discrepancies and the rationale for the proponent's selection of information.	3.6.4 Appendix C
35	The assessment of the effects will be based on a comparison of the biophysical and human environments between the predicted future conditions with the project and the predicted future conditions without the project.	6.0, 7.4.1 – 19.4.1
36	All conclusions will be substantiated. Predictions will be based on clearly stated assumptions. The proponent will describe how each assumption has been tested. With respect to quantitative models and predictions, the EIS will document the assumptions that underlie the model, the quality of the data and the degree of certainty of the predictions obtained.	7.0 – 19.0
4.3 Use of Information		
37	The proponent will incorporate into the EIS the community and Aboriginal traditional knowledge to which it has access or that is acquired through Aboriginal and public engagement activities, in keeping with appropriate ethical standards and obligations of confidentiality.	3.6.3.2, 3.6.4, 4.1.5, 7.1.3-17.1.3, 18.0, 19.1.3
38	When relying on existing information, the proponent will either include the information directly in the EIS or clearly direct the reader to where it may obtain the information. Also comment on how the data were applied to the project, separate factual lines of evidence from inference, and state any limitations on the inferences or conclusions that can be drawn from the existing information.	7.0 – 19.0 Appendix E/F
39	The EIS will not contain information that:	N/A – the EIS/EA does not contain information

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	<ul style="list-style-type: none"> • is sensitive or confidential (i.e., financial, commercial, scientific, technical, personal, cultural or other nature), that is treated consistently as confidential, and the person affected has not consented to the disclosure; or • may cause harm to a person or harm to the environment through its disclosure. <p>The proponent will consult with the Agency regarding whether specific information requested by these guidelines should be treated as confidential.</p>	that is sensitive, confidential, or that may cause harm to a person or the environment through its disclosure
4.4 Presentation and Organization of the Environmental Impact Statement		
40	<p>The title page of the EIS and its related documents will contain the following information:</p> <ul style="list-style-type: none"> • project name and location • title of the document, including the term “environmental impact statement” • subtitle of the document • name of the proponent • the date 	General
41	<p>The EIS will be written in clear, precise language. A glossary defining technical words, acronyms and abbreviations will be included. It will include charts, diagrams, tables, maps and photographs, where appropriate, to clarify the text. Perspective drawings that clearly convey the various components of the project will also be provided. Wherever possible, maps will be presented in common scales and datum to allow for comparison and overlay of mapped features.</p>	General
42	<p>The EIS will explain how information is organized in the document. This will include a list of all tables, figures, and photographs referenced in the text. A complete list of supporting literature and references will also be provided.</p>	General
43	<p>A table of concordance, which cross references the information presented in the EIS with the information requirements identified in the EIS Guidelines, will be provided.</p>	Appendix B1
44	<p>Provide copies of the EIS and its summary for distribution, including paper and electronic version in an unlocked, searchable PDF format, as directed by the Agency.</p>	General
4.5 Summary of the Environmental Impact Statement		
45	<p>Prepare a summary of the EIS in both of Canada's official languages (French and English) to be provided to the Agency at the same time as the EIS and which will include the following:</p> <ul style="list-style-type: none"> • A concise description of all key components of the project and related activities; • A summary of the consultation conducted with Aboriginal groups, the public, and government agencies, including a summary of the issues raised and the proponent's responses; • An overview of expected changes to the environment 	EIS Summary

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	<ul style="list-style-type: none"> An overview of the key environmental effects of the project and proposed technically and economically feasible mitigation measures; and The proponent's conclusions on the residual environmental effects of the project after taking mitigation measures into account and the significance of those effects. 	
46	<p>The summary is to be provided as a separate document and should be structured as follows:</p> <ol style="list-style-type: none"> 1. Introduction and environmental assessment context 2. Project overview 3. Alternative means of carrying out the project 4. Public consultation 5. Aboriginal engagement 6. Summary of environmental effects assessment for each VCs, including: <ol style="list-style-type: none"> a. description of the baseline b. anticipated changes to the environment c. anticipated effects d. mitigation measures e. significance of residual effects 7. Follow-up and monitoring programs proposed 	EIS Summary
47	<p>The summary will have sufficient details for the reader to learn and understand the project, potential environmental effects, mitigation measures, and the significance of the residual effects. The summary will include key maps illustrating the project location and key project components.</p>	EIS Summary
Part 2 – Content of the Environmental Impact Statement		
1.1 The Proponent		
48	<p>In the EIS, the Proponent will:</p> <ul style="list-style-type: none"> provide contact information (e.g. name, address, phone, fax, email); identify itself and the name of the legal entity that would develop, manage and operate the project; describe corporate and management structures; 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 EIS. 	1.0, 1.1

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1.2 Project Overview		
49	Describe the project, key project components and associated activities, scheduling details, the timing of each phase of the project and other key features. If the project is a part of a larger sequence of projects, the EIS will outline the larger context.	5.0
1.2 Project Location		
50	The EIS will contain a description of the geographical setting in which the project will take place. This description will focus on those aspects of the project and its setting that are important in order to understand the potential environmental effects of the project.	2.0, 7.2 – 19.2
51	Include the UTM coordinates of the main project site	2.1
52	Include current land use in the area	2.3.10, 16.2
53	Include distance of the project facilities and components to any federal lands	Figure 3-1, 18.1
54	Include the environmental significance and value of the geographical setting in which the project will take place and the surrounding area	7.2 – 19.2
55	Include environmentally sensitive areas, such as national, provincial and regional parks, ecological reserves, wetlands, estuaries, and habitats of federally or provincially listed species at risk and other sensitive areas	12.2, 13.2, 16.2
56	Include information on local and Aboriginal communities Include information on traditional Aboriginal territories, treaty lands, Indian reserve lands	Figure 3-1, 3.6.2, 3.6.4, 14.2, 18.0
1.4 Regulatory Framework and the Role of Government		
57	Identify 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	1.4.1, 1.4.4.1
58	Identify the environmental and other regulatory approvals and legislation that are applicable to the project at the federal, provincial, regional and municipal levels	1.4.4.1
59	Identify government policies, resource management, planning or study initiatives pertinent to the project and/or EA and their implications	7.1.1 – 17.1.1, 18.1.3, 19.1.1
60	Identify any treaty or self-government agreements with Aboriginal groups that are pertinent to the project and/or EA	3.6.2, 18.2.2
61	Identify any relevant land use plans, land zoning, or community plans	2.2.4

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		Appendix E10
62	Identify regional, provincial and/or national objectives, standards or guidelines that have been used by the proponent to assist in the evaluation of any predicted environmental effects	7.1.1 – 19.1.1
2.1 Purpose of the Project		
63	Describe the purpose of the project by providing the rationale for the project, explaining the background, the problems or opportunities that the project is intended to satisfy and the stated objectives from the perspective of the proponent.	1.2
64	If the objectives of the project are related to broader private or public sector policies, plans or programs, this information will also be included.	N/A – the objectives of the project are not related to broader private or public policies, plans or programs
65	Describe the predicted environmental, economic and social benefits of the project.	25.0
2.2 Alternative Means of Carrying out the Project		
66	Identify and consider the effects of alternative means of carrying out the project that are technically and economically feasible.	4.2
67	Complete the following procedural steps for addressing alternative means: <ul style="list-style-type: none"> Identify the alternative means to carry out the project. Identify the effects of each technically and economically feasible alternative means. Select the approach for the analysis of alternative means (i.e., identify a preferred means or bring forward alternative means) 	4.1
68	<ul style="list-style-type: none"> Assess the environmental effects of the alternative means 	4.2 Appendix G2 – G11
69	Address, at a minimum, the following project components: <ul style="list-style-type: none"> location of key project components fuel storage and distribution; water supply and treatment (mine and potable); and mine waste disposal (methods, conveyance and sites considered). 	5.3, 5.4
3.1 Project Components		

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70	Describe the project, by presenting the project components, associated and ancillary works, and other characteristics that will assist in understanding the environmental effects.	5.0
71	Include maps, at an appropriate scale, of the project location, the project components, boundaries of the proposed site with UTM coordinates, the major existing infrastructure, adjacent land uses and any important environmental features	General
72	Include a description of: <ul style="list-style-type: none"> • open pit mine (footprint, location, development plans including pit phases) • waste rock, overburden, topsoil, low grade ore storage and stock piles (footprint, locations, volumes, development plans and design criteria); • crusher, and processing facilities (footprint, technology, location) • tailings management facility (footprint, location and preliminary designs); • water management facilities proposed to control, collect and discharge surface drainage and groundwater seepage to the receiving environment from all key components of the mine infrastructure (e.g. pit water and/or underground mine water, mine effluent); • drinking and industrial water requirements (source, quantity required, need for water treatment); • explosives manufacturing and storage; • energy generation and supply (source, quantity); • waste disposal (type of waste, method of disposal, quantity); • permanent and temporary linear infrastructures (road, railroad, pipelines), identifying the route of each of these linear infrastructures, the location and types of structure used for stream crossings; • mine dry, office building, assay lab, parking areas, security building, repair shop, and warehouse; and • realignment of highway 11 and building of new interchange to Michael Power Boulevard (construction only) 	5.4
3.2 Project Activities		
73	Include descriptions of the construction, operation, decommissioning and abandonment associated with the proposed project.	5.2
74	Include descriptions of the activities to be carried out during each phase, the location of each activity, expected outputs and an indication of the activity's magnitude and scale.	5.2
75	Sufficient information will be included to predict environmental effects and address public concerns identified. Highlight activities that involve periods of increased environmental disturbance or the release of materials into the environment.	7.0 – 19.0

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76	Include a summary of the changes that have been made to the project since originally proposed, including the benefits of these changes to the environment, Aboriginal peoples, and the public.	25.1
77	Include a schedule including time of year, frequency, and duration for all project activities.	5.2
78	<p>For site preparation and construction, include a description of:</p> <ul style="list-style-type: none"> • site clearing, excavation • explosives manufacture and storage (location and management) • blasting (frequency and methods) • borrow materials requirements (source and quantity) • water diversion, dewatering or deposition activities required (location, methods, timing) • equipment requirements (type, quantity) • crusher, and processing facilities • tailings management facility • water management infrastructure • waste disposal • energy generation • administrative buildings, garages, other ancillary facilities • realignment of highway 11, and building new interchange to Michael Power Boulevard • relocation of historic MacLeod tailings • number of employees and transportation of employees 	5.6
79	<p>For operation, include a description of:</p> <ul style="list-style-type: none"> • mining plan, ore production, ore stockpiling, concentrate production • equipment requirements • explosives manufacture, storage and use (location and management) • blasting (frequency and methods) • water management on the project site, including a detailed water budget • ore crushing and treatment • reagent requirements (volumes, storage, types) • petroleum and natural gas products (source, volume, storage) • characterization and management of ore, waste rock, low grade ore, overburden and tailings (volumes generated, mineralogical characterization, potential for metal leaching and acid rock drainage) • effluent management and treatment (quantity, treatment requirement, release point) • contribution to atmospheric emissions, including emissions profile (type, rate and source) • water recycling • waste management and recycling (other than mine waste such as tailings and waste rock) 	5.7

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	<ul style="list-style-type: none"> number of employees, transportation of employees, work schedule, lodging requirement on site and off site 	
80	<p>For decommissioning and abandonment, include a description of:</p> <ul style="list-style-type: none"> the preliminary outline of a decommissioning and reclamation plan for any components associated with the project the ownership, transfer and control of the different project components the responsibility for monitoring and maintaining the integrity of the remaining structures for permanent facilities, a conceptual discussion on how decommissioning could occur 	5.9 Appendix I
4. Public Consultation and Concerns		
81	Describe the ongoing and proposed consultations and the information sessions that the proponent will hold or that it has already held on the project.	3.3, 3.6.3, 3.8
82	Provide a description of efforts made to distribute project information and provide a description of information and materials that were distributed during the consultation process. Indicate the methods used, where the consultation was held, the persons and organizations consulted, the concerns voiced and the extent to which this information was incorporated in the design of the project as well as in the EIS.	3.3 – 3.6
83	Provide a summary of key issues raised related to the environmental assessment as well as describe any outstanding issues and ways to address them.	3.4.2.1, 3.5.2.3, 3.6.4, 4.1.5, 7.1.2 – 17.1.2, 18.1.4, 19.1.2, 22.2.6
5. Aboriginal Engagement and Concerns		
84	<p>Engage with Aboriginal groups that may be affected by the project, to obtain their views on:</p> <ul style="list-style-type: none"> Effects of changes to the environment on Aboriginal peoples (health and socio-economic issues; physical and cultural heritage, including any structure, site or thing that is of historical, archaeological, paleontological or architectural significance; and current use of lands and resources for traditional purposes), and Potential adverse impacts of the project on potential or established Aboriginal or Treaty rights. 	3.6, 18.4 Appendix J Appendix O (Sections 7.4 and 8.0)
85	Document VCs suggested by Aboriginal groups for inclusion in the EIS, whether they were included, and the rationale for any exclusions	3.6.4.2, 3.6.4.3
86	Document each group's potential or established rights (including geographical extent, nature, frequency, timing), including maps and data sets (e.g. fish catch numbers) when this information is provided by a group to the proponent or available through public records	3.6.2, 3.6.4, 18.1.3 Appendix J

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87	Document, based on the proponent's perspective, the potential adverse impacts of each of the project components and physical activities, in all phases, on potential or established Aboriginal or Treaty rights. This assessment is to be based on a comparison of the exercise of the identified rights between the predicted future conditions with the project and the predicted future conditions without the project. Include the perspectives of Aboriginal groups where these were provided to the proponent by the groups	18.4 Appendix O (Section 5.0)
88	Document, based on the proponent's perspective, the measures identified to mitigate or accommodate potential adverse impacts of the project on the potential or established Aboriginal or Treaty rights. These measures will be written as specific commitments that clearly describe how the proponent intends to implement them	18.4.2 – 18.4.5 Appendix O (Section 6.0)
89	Document, based on the proponent's perspective, the effects of changes to the environment on Aboriginal peoples or potential adverse impacts on potential or established Aboriginal or Treaty rights that have not been fully mitigated or accommodated as part of the environmental assessment and associated engagement with Aboriginal groups, including the potential adverse effects that may result from the residual and cumulative environmental effects. Include the perspectives of Aboriginal groups where these were provided to the proponent by the groups	18.4.6, 18.5 Appendix O (Sections 7.0 and 8.0)
90	Document specific suggestions raised by Aboriginal groups for mitigating the effects of changes to the environment on Aboriginal peoples or accommodating potential adverse impacts of the project on potential or established Aboriginal and Treaty rights	18.1.4, 18.4.2 – 18.4.5 Appendix O (Section 6.0)
91	Document views expressed by Aboriginal groups on the effectiveness of the mitigation or accommodation measures	3.6.4, 18.1.4, 18.4.2 – 18.4.5
92	Document, from the proponent's perspective, any potential cultural, social and/or economic impacts or benefits to Aboriginal groups that may arise as a result of the project. Include the perspectives of Aboriginal groups where these were provided to the proponent by the groups	14.4, 17.4, 18.4.2 – 18.4.5, 25.0 Appendix O (Sections 7.0 and 8.0)
93	Document comments, specific issues and concerns raised by Aboriginal groups and how the key concerns were responded to or addressed	3.6.4, 7.1.2 – 17.1.2, 7.1.3 – 17.1.3, 18.1.4, 19.1.2, 19.1.3 Appendix C10
94	Document changes made to the project design and implementation directly as a result of discussions with Aboriginal groups	3.6.4, 5.1.25.1

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95	Document where and how Aboriginal traditional knowledge was incorporated into the environmental effects assessment (including baseline conditions and effects analysis for all VCs) and the consideration of potential adverse impacts on potential or established Aboriginal or Treaty rights and related mitigation measures	6.0, 7.1.3-17.1.3, 18.0, 19.1.3 Appendix O (Section 4.0)
96	Document any additional issues and concerns raised by Aboriginal groups in relation to the environmental effects assessment and the potential adverse impacts of the project on potential or established Aboriginal and Treaty rights	3.6.4, 17.1.3 – 17.1.3, 18.1.4, 19.1.3
97	Document the engagement activities undertaken with Aboriginal groups prior to the submission of the EIS, including the date and means of engagement.	3.6 Appendix C3
98	Document any future planned engagement activities.	3.8, 24.3
99	Document how engagement activities by the proponent allowed Aboriginal groups to understand the project and evaluate its effects on their communities, activities, potential or established Aboriginal or Treaty rights and other interests.	3.6.4, 7.1.2 – 17.1.2, 7.1.3 – 17.1.3, 18.1.4, 19.1.2, 19.1.3 Appendix O
100	Ensure that Aboriginal groups have access to timely and relevant information on the project and how the project may adversely impact them.	3.6
101	Structure Aboriginal engagement activities to provide adequate time for Aboriginal groups to review and comment on the relevant information.	3.6.4
102	Engagement activities are to be appropriate to the groups' needs and should be arranged through discussions with the groups.	3.6.2.1, 3.6.4 Appendix C8
103	Describe all efforts, successful or not, taken to solicit the information required from Aboriginal groups to support the preparation of the EIS.	3.6
104	Keep detailed tracking records of its engagement activities, recording all interactions with Aboriginal groups, the issues raised by each Aboriginal group and how the proponent addressed the concerns raised.	3.6 Appendix C3
105	Consider translating information for Aboriginal groups into the appropriate Aboriginal language(s) in order to facilitate engagement activities during the environmental assessment.	3.6.2.3
106	Hold meetings with the following potentially affected Aboriginal groups and facilitate these meetings by making key EA summary documents (baseline studies, EIS, key findings, plain language summaries) accessible: <ul style="list-style-type: none"> • Animiigoo Zaagi'igan Anishinaabek First Nation; • Aroland First Nation; 	3.6.4.1, 3.6.4.2, 3.6.4.8, 3.6.4.9, 3.6.4.11

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	<ul style="list-style-type: none"> Ginoogaming First Nation; Long Lake #58 First Nation; and Métis Nation of Ontario. 	
107	Ensure there are sufficient opportunities for individuals and groups to provide oral input in the language of their choice.	3.3, 3.6.2
108	Ensure that these Aboriginal groups' views are heard and recorded.	3.6.4 Appendix C
109	Upon receipt of knowledge or information of potential effects to an Aboriginal group not listed above, the proponent shall provide that information to the Agency at the earliest opportunity.	Appendix C, Appendix J
6.1 Project Setting and Baseline Conditions		
110	Present baseline information in sufficient detail to enable the identification of how the project could affect the VCs and an analysis of those effects. Should other VCs be identified during the conduct of the EA, the baseline condition for these components will also be described in the EIS.	7.2 – 19.2 Appendix E, Appendix F
6.1.1 Atmospheric Environment		
111	Describe ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following contaminants: total suspended particulates, fine particulates (PM2.5), particulate matters up to 10 micrometers in size (PM10), sulfur oxide (SOx), volatile organic compounds (VOCs), carbon monoxide (CO) and nitrogen oxide (NOx)	7.2 Appendix E1
112	Describe: <ul style="list-style-type: none"> current ambient noise levels at key receptor points (e.g. Aboriginal communities), including the results of a baseline ambient noise survey. Information on typical sound sources, geographic extent and temporal variations will be included; 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. The EIS will describe night-time illumination levels during different weather conditions and seasons 	8.2 Appendix E1, Appendix E2
113	Describe historical records of total precipitation (rain and snow), mean, maximum and minimum temperatures	10.2 Appendix E5
6.1.2 Geology and Geochemistry		
114	Describe:	2.2.3, 21.4 Appendix E6

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	<ul style="list-style-type: none"> • the bedrock and host rock geology of the deposit, including a table of geologic descriptions, geological maps and cross-sections of appropriate scale; • geomorphology, topography and geotechnical characteristics of areas proposed for construction of major project components; • the geochemical characterization of expected mine material such as waste rock, ore, low grade ore, tailings, overburden and potential construction material in order to predict metal leaching and acid rock drainage; • 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; - isostatic rise or subsidence; - landslides, slope erosion and the potential for ground and rock instability, and subsidence following project activities. 	
6.1.3 Topography and Soil		
115	Describe: <ul style="list-style-type: none"> • baseline mapping and description of landforms and soils within the local and regional project area; • maps depicting soil depth by horizon and soil order within the mine site area to support soil salvage and reclamation efforts, and to outline potential for soil erosion; • suitability of topsoil and overburden for use in the rehabilitation of disturbed areas 	Appendix E9, Appendix I, Appendix M9
6.1.4 Groundwater and Surface Water		
116	Describe: <ul style="list-style-type: none"> • the hydrogeology, including: <ul style="list-style-type: none"> - the hydrogeological context (e.g., hydrostratigraphy with aquifers and aquitards, major faults, etc.) including the delineation of key stratigraphic and hydrogeologic boundaries; - the physical properties of the hydrogeological units (e.g., hydraulic conductivity, transmissivity, saturated thickness, storativity, porosity, specific yield); - the groundwater flow patterns and rates; - a discussion of the hydrogeologic, hydrologic, geomorphic, climatic and anthropogenic controls on groundwater flow; - temporal changes in groundwater flow (e.g., seasonal and long term changes in water levels); - a delineation and characterization of groundwater surface water interactions including the locations of groundwater discharge to surface water and surface water recharge to groundwater. • hydrogeological maps and cross-sections for the mine area to outline the extent of aquifers and aquitards, including bedrock fracture and fault zones, locations and depths of wells, groundwater types 	9.2 Appendix E3

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#	Requirements / Commitments	Final EIS/EA Reference
	<p>springs, surface waters, and project facilities. Groundwater levels, potentiometric contours, flow directions, groundwater divides and areas of recharge and discharge should be included;</p> <ul style="list-style-type: none"> • all groundwater monitoring wells, including their location, in respect to the project area, including geologic, hydrostratigraphic, piezometric and construction data (e.g., depths of surficial and bedrock units, water level, hydraulic conductivity, diameter and screen depth and intercepted aquifer unit); • monitoring protocol for collection of existing groundwater data; • an appropriate hydrogeologic model for the project area, which discusses the hydrostratigraphy and groundwater flow systems; a sensitivity analysis will be performed to test model sensitivity to climatic variations (e.g., recharge) and hydrogeologic parameters (e.g., hydraulic conductivity); • graphs or tables indicating the seasonal variations in groundwater levels, flow regime, and quality; • local and regional potable groundwater supplies, including their current use and potential for future use; • bedrock fracture sizes and orientations in relation to groundwater flow; 	
117	<p>Describe:</p> <ul style="list-style-type: none"> • the delineation of drainage basins, at appropriate scales (water bodies and watercourses), including intermittent streams, flood risk areas and wetlands, boundaries of the watershed and subwatersheds, overlaid by key project components; • hydrological regimes, including monthly, seasonal and annual water flow (discharge) data; • for each affected water body, the total surface area, bathymetry, maximum and mean depths, water level fluctuations, type of substrate (sediments); • seasonal water quality field and lab analytical results (e.g. water temperature, turbidity, pH, dissolved oxygen profiles) and interpretation at several representative local stream and water body monitoring stations established at the project site; • any local and regional potable surface water resource; • sediment quality analysis for key sites likely to receive mine effluents. 	10.2 Appendix E5
6.1.5 Fish and Fish Habitat		
118	<p>For potentially affected surface waters, provide:</p> <ul style="list-style-type: none"> • a characterization of fish populations on the basis of species and life stage, including information on the surveys carried out and the source of data available (e.g. location of sampling stations, catch methods, date of catches, species); • a list of any fish or invertebrate species at risk that are known to be present; • a description of the habitat by homogeneous section, including the length of the section, width of the channel from the high water mark (bankful width), water depths, type of substrate (sediments), aquatic and riparian vegetation, and photos; 	11.2 Appendix E7

Appendix B1: Environmental Impact Statement Guidelines Concordance Table

#	Requirements / Commitments	Final EIS/EA Reference
	<ul style="list-style-type: none"> • a description of natural obstacles (e.g. falls, beaver dams) or existing structures (e.g. water crossings) that hinder the free passage of fish; • maps, at a suitable scale, indicating the surface area of potential or confirmed fish habitat for spawning, nursery, feeding, overwintering, migration routes, etc. This information should be linked to water depths (bathymetry) to identify the extent of a water body's littoral zone; • the description and location of suitable habitats for fish species at risk that appear on federal and provincial lists and that are found or are likely to be found in the study area. 	
6.1.6 Migratory Birds and their Habitat		
119	Describe: <ul style="list-style-type: none"> • the various ecosystems found in the project area likely to be affected based on existing information, or surveys to provide current field data; • migratory and non-migratory birds (including waterfowl, raptors, shorebirds, marsh birds and other land birds) based on existing information, or surveys to provide current field data; • year-round migratory bird use of the area (e.g., winter, spring migration, breeding season, fall migration), based on preliminary data from existing sources, or surveys to provide current field data. 	13.2 Appendix E8
6.1.7 Species at Risk		
120	Provide: <ul style="list-style-type: none"> • a list of all potential or known federally listed species at risk that may be affected by the project (fauna and flora), using existing data and literature as well as surveys to provide current field data; • a list of all federal species designated by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) for listing on Schedule 1 of the Species at Risk Act. This will include those species in the risk categories of extirpated, endangered, threatened and special concern; • any published studies that describe the regional importance, abundance and distribution of species at risk; • residences, seasonal movements, movement corridors, habitat requirements, key habitat areas, identified critical habitat and/or recovery habitat (where applicable) and general life history of species at risk that may occur in the project area, or be affected by the project. 	12.2, 13.2 Appendix E8
6.1.8 Aboriginal Peoples		
121	With respect to potential effects on Aboriginal peoples and the related VCs, baseline information will be provided for each Aboriginal group identified in section 5 (and any groups identified after these guidelines are finalized).	18.2.2 Appendix J

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#	Requirements / Commitments	Final EIS/EA Reference
122	Describe and characterize the following:	
	<ul style="list-style-type: none"> location of traditional territory (including maps where available); 	3.6.4.1 – 3.6.4.14, 18.0 Appendix J
	<ul style="list-style-type: none"> location of reserves and communities; 	Figure 3-1, 18.1
	<ul style="list-style-type: none"> location of hunting camps and cabins; 	18.0 Appendix J, Appendix O (Section 4.4.1)
	<ul style="list-style-type: none"> drinking water sources (permanent, seasonal, periodic, or temporary); 	9.1.2, 10.1.3, Appendix J, Appendix O (Section 4.1.3)
	<ul style="list-style-type: none"> reliance on country foods; 	18.1.3, 19.0 Appendix J, Appendix O (Section 4.1.2)
	<ul style="list-style-type: none"> commercial activities (e.g. fishing, trapping, hunting, forestry, outfitting); 	16.0, 18.0 Appendix J Appendix O (Section 4.2.3)
	<ul style="list-style-type: none"> recreational uses; 	16.0, 18.0 Appendix J, Appendix O (Section 4.2.4)
	<ul style="list-style-type: none"> traditional uses currently practiced or practiced in recent history; 	18.0 Appendix J, Appendix O (Section 4.0)
	<ul style="list-style-type: none"> fish, wildlife, birds, plants or other natural resources of importance for traditional use; 	11.1.3, 12.1.3, 13.1.3, 18.0 Appendix J, Appendix O (Section 4.4.1)
	<ul style="list-style-type: none"> places where fish, wildlife, birds, plants or other natural resources are harvested; 	18.0 Appendix J, Appendix O (Section 4.2.3)

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#	Requirements / Commitments	Final EIS/EA Reference
	<ul style="list-style-type: none"> access and travel routes for conducting traditional practices; 	18.0 Appendix J, Appendix O (Section 4.2.1)
	<ul style="list-style-type: none"> frequency, duration or timing of traditional practices; 	18.0
	<ul style="list-style-type: none"> cultural values associated with the area affected by the project and the traditional uses identified. 	17.0, 18.0 Appendix J, Appendix O (Section 4.3)
123	Describe and characterize physical and cultural heritage (including any site, structure or thing of archaeological, paleontological, historical or architectural significance).	17.2 Appendix E13
124	Any other baseline information that supports the analysis of predicted effects on Aboriginal peoples will be included as necessary.	7.2 – 19.2 Appendix E/F
125	Indicate how input from Aboriginal groups was used in establishing the baseline conditions related to health and socio-economics, physical and cultural heritage and current use of lands and resources for traditional purposes.	7.1.3 – 17.1.3, 18.1.4, 19.1.3
6.1.9 Human Environment		
126	Describe: <ul style="list-style-type: none"> the rural and urban settings likely to be affected by the project; any federal lands, lands located outside the province or Canada that may be affected by the project; 	2.2.4, 14.2 – 16.2
127	Describe: <ul style="list-style-type: none"> the current use of land in the study area, including a description of hunting, recreational and commercial fishing, trapping, gathering, outdoor recreation, use of seasonal cabins, outfitters; current use of all waterways and water bodies that will be directly affected by the project, including recreational uses, where available; location of and proximity of any permanent, seasonal or temporary residences or camps; 	16.2
128	Describe health and socio-economic conditions, including the functioning and health of the socio-economic environment, encompassing a broad range of matters that affect communities in the study area in a way that recognizes interrelationships, system functions and vulnerabilities;	19.2 Appendix E10

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#	Requirements / Commitments	Final EIS/EA Reference
129	Describe physical and cultural heritage, including structures, sites or things of historical, archaeological, paleontological or architectural significance.	17.2 Appendix E11, Appendix E12, Appendix E13
6.2 Predicted Changes to the Physical Environment		
130	Include a consideration of the predicted changes to the environment as a result of the project being carried out or as a result of any powers duties or functions that are to be exercised by the federal government in relation to the project. These predicted changes to the environment are to be considered in relation to each phase of the project (construction, operation, decommissioning, and abandonment) and are to be described in terms of the geographic extent of the changes, the duration and frequency of change, and whether the environmental changes are reversible or irreversible.	7.4 – 19.4, 24.2
6.2.1. Changes to the Atmospheric Environment		
131	Consider: <ul style="list-style-type: none"> • Changes in air quality • Changes in night-time light levels 	7.4
132	<ul style="list-style-type: none"> • Changes in ambient noise levels 	8.4
6.2.2. Changes to Groundwater and Surface Water		
133	Consider: <ul style="list-style-type: none"> • Changes to turbidity, oxygen level, water temperature, ice regime, water quality; • Changes to the hydrological and hydrometric conditions; 	10.4
134	Consider changes to groundwater recharge/discharge areas and any changes to groundwater infiltration areas;	9.4
135	Consider changes to water quality attributed to acid rock drainage and metal leaching associated with the storage of waste rock, ore, low grade ore, tailings, overburden and potential construction material, including: <ul style="list-style-type: none"> • short term metal leaching properties; • longer term rates of acid generation (if any) and metal leaching; • estimates of the potential for mined materials (including waste rock, tailings and low grade ore) to be sources of acid rock drainage or metal leaching; • estimates of potential time to the onset of acid rock drainage or metal leaching; • quantity and quality of leachate from samples of tailings, waste rock, and ore; • quantity and quality of effluent to be released from the site into the receiving waters; • quality of humidity cell or column test liquid from acid rock testing; 	9.4, 10.4

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#	Requirements / Commitments	Final EIS/EA Reference
	<ul style="list-style-type: none"> sensitivity analysis to assess the effects of imperfect segregation of waste rock; pit water chemistry during operation and post-closure, and pit closure management measures (e.g. flooding). This will include geochemical modelling of pit water quality in the post-closure period; surface and seepage water quality from the waste rock dumps, tailings/waste rock impoundment facility, stockpiles and other infrastructure during operation and post-closure. 	
6.2.3. Changes to Terrestrial Landscape		
136	Consider overall description of changes related to landscape disturbance;	12.4
137	Consider: <ul style="list-style-type: none"> Changes to migratory bird habitat, including losses, structural changes, fragmentation of habitat and wetlands¹¹ (cover types, ecological land unit in terms of quality, quantity, diversity, distribution and functions) used by migratory birds; Changes to critical habitat for federally listed species at risk; 	13.4
138	Consider changes to key habitat for species important to Aboriginal current use of resources;	18.4.3, 18.4.4
139	Consider changes resulting from the realignment and/or infilling of any waterways that may be authorized under the Navigation Protection Act.	16.4
6.3.1 Fish and Fish Habitat		
140	Assess the environmental effects of the project on the following: <ul style="list-style-type: none"> the identification of any potential adverse effects to fish and fish habitat as defined in subsection 2(1) of the Fisheries Act, including the calculations of any potential habitat loss (temporary or permanent) in terms of surface areas (e.g. spawning grounds, fry-rearing areas, feeding), and in relation to watershed availability and significance. The assessment will include a consideration of: <ul style="list-style-type: none"> the geomorphological changes and their effects on hydrodynamic conditions and fish habitats (e.g. modification of substrates, dynamic imbalance, silting of spawning beds); the modifications of hydrological and hydrometric conditions on fish habitat and on the fish species' life cycle activities (e.g. reproduction, fry-rearing, movements); potential impacts on riparian areas that could affect aquatic biological resources and productivity taking into account any anticipated modifications to fish habitat; any potential imbalances in the food web in relation to baseline. the effects of changes to the aquatic environment on fish and their habitat, including: <ul style="list-style-type: none"> the anticipated changes in the composition and characteristics of the populations of various fish species, included shellfish and forage fish; 	11.4

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#	Requirements / Commitments	Final EIS/EA Reference
	<ul style="list-style-type: none"> ○ any modifications in migration or local movements (upstream and downstream migration, and lateral movements) following the construction and operation of works (physical and hydraulic barrier; ○ any reduction in fish populations as a result of potential overfishing due to increased access to the project area; ○ any modifications and use of habitats by federally or provincially listed fish species. • a discussion of how project construction timing correlates to key fisheries windows for freshwater and anadromous species, and any potential impacts resulting from overlapping periods; • a discussion of how vibration caused by blasting may affect fish-frequented waters. 	
6.3.2 Migratory Birds		
141	<p>Assess the environmental effects of the project on the following:</p> <ul style="list-style-type: none"> • direct migratory bird mortality that could be caused by clearing of sites or birds and nests being in contact with contaminated waters (e.g., tailing impoundment area); • collision risk of migratory birds with any project infrastructures; • indirect effects caused by increased disturbance (e.g. noise, light, presence of workers), relative abundance movements and changes in migratory bird habitat. 	13.4
6.3.3 Species at Risk		
142	<p>Assess the environmental effects of the project on the following:</p> <ul style="list-style-type: none"> • for each habitat unit, the potential effects of the project on federally listed species at risk and those species listed by the Committee on the Status of Endangered Wildlife in Canada classified as extirpated, endangered, threatened or of special concern (flora and fauna) and their critical habitat. 	13.4
6.3.4 Aboriginal Peoples		
143	<p>With respect to Aboriginal peoples, provide a description and analysis of how changes to the environment caused by the project will affect:</p> <ul style="list-style-type: none"> • the current uses of land and resources for traditional purposes, including, but not limited to: <ul style="list-style-type: none"> • any effects on resources (fish, wildlife, birds, plants or other natural resources) used for traditional uses (e.g. hunting, fishing, trapping, collection of medicinal plants, use of sacred sites);; • any effects of alterations to access into the areas used for traditional uses, including development of new roads, deactivation or reclamation of access roads and changes to waterways that affect navigation; • any effects on cultural value or importance associated with traditional uses or areas affected by the project (e.g. inter-generational teaching of language or traditional practices, communal gatherings); 	18.4 Appendix O

Appendix B1: Environmental Impact Statement Guidelines Concordance Table

#	Requirements / Commitments	Final EIS/EA Reference
	<ul style="list-style-type: none"> • how project construction timing correlates to the timing of traditional practices, and any potential impacts resulting from overlapping periods; • the regional value of traditional use of the project area and the anticipated effects to traditional practice of the Aboriginal group, including alienation of lands from Aboriginal traditional use; • indirect effects such as avoidance of the area by Aboriginal peoples due to increased disturbance (e.g. noise, presence of workers); and • an assessment of the potential to return affected areas to pre-disturbance conditions to support traditional practices. 	
144	With respect to Aboriginal peoples, provide a description and analysis of how changes to the environment caused by the project will affect human health, considering, but not limited to potential changes in air quality, quality and availability of country foods, drinking water quality, and noise exposure. When risks to human health due to changes in one or more of these components are predicted, a complete Human Health Risk Assessment (HHRA) examining all exposure pathways for pollutants of concern may be necessary to adequately characterize potential risks to human health;	19.4 Appendix O (Sections 4.1 and 7.1)
145	With respect to Aboriginal peoples, provide a description and analysis of how changes to the environment caused by the project will affect socio-economic conditions, including but not limited to: <ul style="list-style-type: none"> • the use of navigable waters; • forestry and logging operations; • commercial fishing, hunting, trapping, and gathering activities; • commercial outfitters; and • recreational use. 	16.4, 18.4 Appendix O (Sections 4.2 and 7.2)
146	With respect to Aboriginal peoples, provide a description and analysis of how changes to the environment caused by the project will affect physical and cultural heritage, and structure, site or thing of historical, archaeological, paleontological or architectural significance to Aboriginal groups, including, but not limited to: <ul style="list-style-type: none"> • the loss or destruction of physical and cultural heritage; • changes to access to physical and cultural heritage; and, • changes to the cultural value or importance associated with physical and cultural heritage. 	16.4, 18.4 Appendix O (Sections 4.3 and 7.3)
147	Other effects of changes to the environment on Aboriginal peoples should be reflected as necessary.	17.4, 18.4 Appendix O (Sections 4.4 and 7.4)
6.3.5 Navigation		
148	Assess the environmental effects of the project on the following:	16.4

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#	Requirements / Commitments	Final EIS/EA Reference
	<ul style="list-style-type: none"> • effects to navigation resulting from realignment and/or infilling of waterways that may be authorized under the Navigation Protection Act; and • socio-economic effects resulting from loss of navigation due to the realignment and/or infilling of waterways that may be authorized under the Navigation Protection Act. 	
6.4 Mitigation		
149	Consider measures that are technically and economically feasible and that would mitigate any significant adverse environmental effects of the project. Each measure will be specific, achievable, measurable and verifiable, and described in a manner that avoids ambiguity in intent, interpretation and implementation.	7.4 – 19.4
150	Describe the standard mitigation practices, policies and commitments that constitute technically and economically feasible mitigation measures and that will be applied as part of standard practice regardless of location (including the measures directed at promoting beneficial or mitigating adverse socio-economic effects).	7.4 – 19.4
151	Describe the project's environmental protection plan and its environmental management system, through which the proponent will deliver this plan.	23.0 Appendix M
152	Discuss the mechanisms the proponent would use to require its contractors and sub-contractors to comply with these commitments and policies and with auditing and enforcement programs.	1.1
153	Describe mitigation measures that are specific to each environmental effect identified. Measures will be written as specific commitments that clearly describe how the proponent intends to implement them and the environmental outcome the mitigation is designed to address.	7.4 – 19.4
154	Where mitigation measures have been identified in relation to species and/or critical habitat listed under the Species at Risk Act, the mitigation measures will be consistent with any applicable recovery strategy and action plans.	13.4
155	Specify the actions, works, minimal disturbance footprint techniques, best available technology, corrective measures or additions planned during the project's various phases to eliminate or reduce the significance of adverse effects.	7.4 – 19.4
156	Present an assessment of the effectiveness of the proposed technically and economically feasible mitigation measures.	7.4 – 19.4
157	The reasons for determining if the mitigation measure reduces the significance of an adverse effect will be made explicit.	7.4 – 19.4
158	Indicate what other technically and economically feasible mitigation measures were considered, and explain why they were rejected.	4.2

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#	Requirements / Commitments	Final EIS/EA Reference
159	Identify who is responsible for the implementation of these measures and the system of accountability.	7.4 – 19.4, 23.0
160	Where mitigation measures are proposed to be implemented for which there is little experience or for which there is some question as to their effectiveness, the potential risks and effects to the environment should those measures not be effective will be clearly and concisely described.	7.4 – 19.4, 23.0 Appendix M
161	Identify the extent to which technology innovations will help mitigate environmental effects. Where possible, provide detailed information on the nature of these measures, their implementation, management and the requirements of the follow-up program.	5.0
6.5 Significance of Residual Effects		
162	Present any residual environmental effects of the project on the VCs. The residual effects, even if very small or deemed insignificant will be described.	7.4 – 19.4, 24.0
163	Provide an analysis of the significance of the residual environmental effects that are considered adverse, using guidance described in section 4 of the Agency’s reference guide Determining Whether a Project is Likely to Cause Significant Adverse Environmental Effects.	7.5 – 19.5
164	Identify the criteria used to assign significance ratings to any predicted adverse effects. Include clear and sufficient information to enable the Agency, technical and regulatory agencies, Aboriginal groups and the public to review the proponent’s analysis of the significance of effects.	6.4.2, 7.1 – 19.1
165	Document the terms used to describe the level of significance.	6.4.2, 7.1 – 19.1
166	The following criteria should be used in determining the significance of residual effects: <ul style="list-style-type: none"> • magnitude; • geographic extent; • duration; • frequency; • reversibility; • ecological and social context; and • existence of environmental standards, guidelines or objectives for assessing the impact. 	6.4.2, 7.1 – 19.1
167	Use relevant existing regulatory documents, environmental standards, guidelines, or objectives such as prescribed maximum levels of emissions or discharges of specific hazardous agents into the environment.	6.4.2, 7.1 – 19.1
168	Include a section which explains the assumptions, definitions and limits to the criteria mentioned above in order to maintain consistency between the effects on each VC.	7.1 – 19.1

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#	Requirements / Commitments	Final EIS/EA Reference
169	Where significant adverse effects are identified, set out the probability (likelihood) that they will occur, and describe the degree of scientific uncertainty related to the data and methods used within the framework of its environmental analysis.	N/A – no significant adverse effects are anticipated
6.6.1 Effects of Potential Accidents or Malfunctions		
170	Conduct an analysis of the risks of accidents and malfunctions, determine their effects and present preliminary emergency measures.	22.0 Appendix M3
171	Taking into account the lifespan of different project components, identify the probability of potential accidents and malfunctions related to the project, including an explanation of how those events were identified, potential consequences, the plausible worst case scenarios and the effects of these scenarios.	22.2
172	Include an identification of the magnitude of an accident and/or malfunction, including the quantity, mechanism, rate, form and characteristics of the contaminants and other materials likely to be released into the environment during the accident and malfunction events and would potentially result in an adverse environmental effect.	22.4, 22.5
173	Describe the safeguards that have been established to protect against such occurrences and the contingency and emergency response procedures in place if such events do occur.	22.2.2, 2.2.3 Appendix M3
6.6.2 Effects of the Environment on the Project		
174	Take into account how local conditions and natural hazards, such as severe and/or extreme weather conditions and external events (e.g. flooding, drought, ice jams, landslides, avalanches, erosion, subsidence, fire, outflow conditions and seismic events) could adversely affect the project and how this in turn could result in impacts to the environment (e.g., extreme environmental conditions result in malfunctions and accidental events). These events will be considered in different probability patterns (i.e. 5-year flood vs. 100-year flood).	21.0
175	Longer-term effects of climate change will also be discussed up to the projected post-closure phase of the project. This discussion will include a description of climate data used.	21.3
176	Provide details of planning, design and construction strategies intended to minimize the potential environmental effects of the environment on the project.	21.6
6.6.3 Cumulative Effects Assessment		
177	Identify and assess the project's cumulative effects using the approach described in the Agency's Operational Policy Statement entitled Addressing Cumulative Environmental Effects under the Canadian Environmental Assessment Act, 2012 and the guide entitled Cumulative Effects Assessment Practitioners' Guide, 1999.	20.0

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#	Requirements / Commitments	Final EIS/EA Reference
178	Identify and provide a rationale for the valued components that will constitute the focus of the cumulative effects assessment, emphasizing this assessment on the VCs most likely to be affected by the project and other project and activities, including: <ul style="list-style-type: none"> • fish and fish habitat, including valued fish species; • migratory birds; • species at risk; and • Aboriginal peoples. 	20.2.1
179	Identify and justify the spatial and temporal boundaries for the cumulative effect assessment for each VC selected.	20.2.2
180	Identify the sources of potential cumulative effects. Specify other projects or activities that have been or that are likely to be carried out that could cause effects on each selected VC within the boundaries defined, and whose effects would act in combination with the residual effects of the project.	20.2.3
181	Describe the mitigation measures that are technically and economically feasible. Assess the effectiveness of the measures applied to mitigate the cumulative effects. In cases where measures exist that are beyond the scope of the proponent's responsibility that could be effectively applied to mitigate these effects, the proponent will identify these effects and the parties that have the authority to act. In such cases, the EIS will summarize the discussions that took place with the other parties in order to implement the necessary measures over the long term	20.3 – 20.12
182	Determine the significance of the cumulative effects.	20.3.6 – 20.12.6
183	Develop a follow-up program to verify the accuracy of the assessment or to dispel the uncertainty concerning the effectiveness of mitigation measures for certain cumulative effects.	23.0
7. Summary of Environmental Effects Assessment		
184	The EIS and its summary will contain a table summarising the following key information: <ul style="list-style-type: none"> • potential environmental effects; • proposed mitigation measures to address the effects identified above; • potential residual effects and the significance of the residual environmental effects. 	EIS Summary 24.0
185	In a second table, summarize all key mitigation measures and commitments made by the proponent which will more specifically mitigate any significant adverse effects of the project on valued components (i.e., those measures that are essential to ensure that the project will not result in significant adverse environmental effects).	EIS Summary 24.1
8.1 Follow-Up Program		

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#	Requirements / Commitments	Final EIS/EA Reference
186	<p>Present a preliminary follow-up program in particular for areas where scientific uncertainty exists in the prediction of effects. This program shall include:</p> <p>objectives of the follow-up program and the VCs targeted by the program;</p> <ul style="list-style-type: none"> • list of elements requiring follow-up; • number of follow-up studies planned as well as their main characteristics (list of the parameters to be measured, planned implementation timetable, etc.); • intervention mechanism used in the event that an unexpected deterioration of the environment is observed; • mechanism to disseminate follow-up results among the concerned populations; • accessibility and sharing of data for the general population; • opportunity for the proponent to take advantage of the participation of Aboriginal groups and stakeholders on the affected territory, during the implementation of the program; • involvement of local and regional organizations in the design, implementation and evaluation of the follow-up results as well as any updates, including a communication mechanism between these organizations and the proponent. 	23.0 Appendix M
8.1 Monitoring		
187	<p>Prepare an environmental monitoring program for all phases of the project. This program will help ensure that the project is implemented as proposed, that the mitigation or compensation measures proposed to minimize the project's environmental effects are effectively implemented, and that the conditions set at the time of the project's authorization and the requirements pertaining to the relevant laws and regulations are met.</p>	23.0 Appendix M
188	<p>present an outline of the preliminary environmental monitoring program, including the:</p> <ul style="list-style-type: none"> • identification of the interventions that pose risks to one or more of the components and the measures and means planned to protect the environment; • description of the characteristics of the monitoring program where foreseeable (e.g., location of interventions, planned protocols, list of measured parameters, analytical methods employed, schedule, human and financial resources required); • 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 environmental provisions of their contracts; and • guidelines for preparing monitoring reports (number, content, frequency, format) that will be sent to the authorities concerned. 	23.0 Appendix M