RED MOUNTAIN UNDERGROUND GOLD PROJECT
APPLICATION INFORMATION REQUIREMENTS TABLE OF CONCORDANCE

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
	APPLICATION SUMMARY	The Application will include a summary, including the following:	n/a	n/a	n/a	n/a
		• a summary of the proposed Project including the project scope, project benefits, and applicable permits. If the proponent has already requested or intends to request concurrent permitting, this will also be stated;	Executive Summary Project Overview Effects Assessment Methodology	Volume 1, Executive Summary, Section 2.12, Section 2.6 Volume 2, Chapter 1, Section 5.0 , Section 3.0, Section 1.7, Section 1.8 Volume 3, Chapter 6, Section 6.5	Volume 1, Executive Summary, Section 2.12, Section 2.6, Section 4.3 Volume 2, Chapter 1, Section 5.0 , Section 3.0, Section 1.7, Section 1.8 Volume 3, Chapter 6, Section 6.5	n/a
		• a brief overview of the assessment process including project reviewability and the pre-application and application review stages of the EA;	Executive Summary Assessment Process	Volume 1, Executive Summary, Section 2.12, Section 4 Volume 2, Chapter 2, Section 2.2, Section 2.3.4, Section 2.4.4	Volume 1, Executive Summary, Section 2.12, Section 4 Volume 2, Chapter 2, Section 2.2, Section 2.3.4, Section 2.4.4	n/a
		• a brief overview of consultation approaches with Aboriginal Groups, the public, and government agencies to date;	Executive Summary Assessment Process	Volume 1, Executive Summary, Section 2.12, Section 5 Volume 2, Chapter 2, Section 2.2, Section 2.5.1, Section 2.5.2, Section 2.5.3	Volume 1, Executive Summary, Section 2.12, Section 5.1 Volume 2, Chapter 2, Section 2.2, Section 2.5.1, Section 2.5.2, Section 2.5.3	Volume 9, Appendix 27-A Volume 10, Appendix 28-A
		• a summary of the key issues raised by Aboriginal Groups, the public, and government agencies;	Executive Summary Tsetsaut Skii km Lax Ha Métis Nation BC Nisga'a Nation Public Consultation	Volume 1, Executive Summary, Section 5.1, Section 5.2, Section 5.3 Volume 4, Chapter 25, Section 25.8 Volume 4, Chapter 26, Section 26.9 Volume 4, Chapter 27, Section 27.7 Volume 4, Chapter 28, Section 28.5	Volume 1, Executive Summary, Section 5.1, Section 5.2, Section 5.3 Volume 4, Chapter 25, Section 25.8 Volume 4, Chapter 26, Section 26.9 Volume 4, Chapter 27, Section 27.7 Volume 4, Chapter 28, Section 28.5	Volume 9, Appendix 27-A Volume 10, Appendix 28-A
		• a summary of key adverse effects on Aboriginal Interests and mitigation measures;	Executive Summary Tsetsaut Skii km Lax Ha Métis Nation BC Nisga'a Nation	Volume 1, Executive Summary, Section 8 Volume 4, Chapter 25, Section 25.5, Section 25.6, Section 25.8 Volume 4, Chapter 26, Section 26.5, Section 26.6, Section 26.9 Volume 4, Chapter 27, Section 27.4, Section 27.7	Volume 1, Executive Summary, Section 8 Volume 4, Chapter 25, Section 25.5, Section 25.6, Section 25.8 Volume 4, Chapter 26, Section 26.5, Section 26.6, Section 26.9 Volume 4, Chapter 27, Section 27.4, Section 27.7	Volume 9, Appendix 27-A

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		• a summary of key effects, proposed mitigation measures, and residual and cumulative effects on Valued Components; and	Executive Summary	Volume 1, Executive Summary, Section 7	Volume 1, Executive Summary, Section 7	n/a
		• IDM's conclusions regarding the potential for significant adverse effects on Valued Components.	Executive Summary	Volume 1, Executive Summary, Section 7	Volume 1, Executive Summary, Section 10	n/a
Part A	**INTRODUCTION**					
1.0	**Overview of Proposed Project IDM Description**	The Application will:	n/a	n/a	n/a	
		• describe IDM, including history, type of company or organization, and affiliations;	Project Overview	Volume 2, Chapter 1, Section 1.1.1.1	n/a	
		• provide contact information for IDM;	Project Overview	Volume 2, Chapter 1, Section 1.1.1.2	n/a	
		• be provided in an unlocked and bookmarked portable document format; and	n/a	n/a	n/a	
		• include a list of parties involved in the preparation of the Application, their appropriate professional qualifications, and the section(s) for which they were responsible.	Preface	Volume 1, Preface	n/a	
1.1	Description of Proposed Project	The Application will:	n/a	n/a	n/a	
		• describe the purpose of the proposed Project from the perspective of IDM and identify whether the objectives of the proposed Project relate to any broader private or public sector policies, plans, or programs;	Project Overview	Volume 2, Chapter 1, Section 1.1.3	n/a	
		• describe the location of the proposed Project, the latitude and longitude coordinates of the site, geography, climate, and geologic setting (regional, local, site, and surficial), including maps showing both regional context (identifying nearby communities and geographic features) and the specific location of the proposed Project;	Project Overview	Volume 2, Chapter 1, Section1.1.4, Section 1.2.1, Section 1.2.2	n/a	
		• describe the location of the proposed Project relative to Aboriginal Groups' asserted traditional territories or Treaty Lands;	Project Overview	Volume 2, Chapter 1, Section 1.1.4	n/a	
		• discuss the relevant history of the proposed Project, including exploratory or investigative history;	Project Overview	Volume 2, Chapter 1, , Section 1.1.5	n/a	
		• describe all phases of the proposed Project, including their duration and proposed scheduling;	Project Overview	Volume 2, Chapter 1, Section 1.1.9	n/a	
		• describe all on-site and off-site components associated with the proposed Project, with figures. The description will include relevant design, geological, geochemical and hydrogeological characteristics of the underground mine, process plant and ore processing facility, location of the crusher, water treatment plan (if applicable), conveyance of ore from portal to the mill, waste rock stockpiles, ore stockpiles, overburden and soil stockpiles, borrow sources, site equipment, water management	Project Overview	Volume 2, Chapter 1, Section 1.1.8, Section 1.2.3, Section 1.2.4	n/a	
		• with respect to underground development, a description of:	n/a	n/a	n/a	
		o the underground development plan, including typical Section, profiles, and mining sequence;	Project Overview	Volume 2, Chapter 1, Section 1.7.3.1, Section 1.7.3.2	n/a	
		o feasibility-level geotechnical and hydrogeological investigations (including rock quality, geology, geologic structure, stresses, and water inflows);	Project Overview	Volume 2, Chapter 1, Section 1.2.4	Volume 8, Appendix 10-A Volume 7, Appendix 1-E	
		o geotechnical and hydrogeological considerations for underground development, including expected rock quality, geology, geologic structure, stresses, and water inflows;	Project Overview	Volume 2, Chapter 1, Section 1.2.4	Volume 8, Appendix 10-A Volume 7, Appendix 1-E	

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		o conceptual ground control management plan for the underground workings, including proposed support for typical ground, areas of poor rock quality, and any major excavations;	Project Overview Accidents and Malfunctions	Volume 2, Chapter 1, Section 1.7.3.2.5 Volume 3, Chapter 23, Section 23.5.4	Volume 7, Appendix 1-E	
		o the methods used to estimate the areal extent of any potential surface subsidence, the degree of expected subsidence, and potential effects on infrastructure and environment;	Project Overview Accidents and Malfunctions	Volume 2, Chapter 1, Section 1.7.3.2.5 Volume 3, Chapter 23, Section 23.5.4	Volume 7, Appendix 1-E	
		• specifically with respect to waste rock and soil stockpiles, include a description of:	n/a	n/a	n/a	
		o feasibility-level design including locations, footprints, volumes, heights, and design slopes of waste rock storage and soil stockpiles;	Project Overview	Volume 2, Chapter 1, Section 1.1.8, Section 1.6.4.5, Section 1.7.3.3	n/a	
		o foundation conditions including foundation angle and soil properties;	Project Overview	Volume 2, Chapter 1, Section 1.6.4.5, Section 1.7.3.3.1, Soil Properties - Section 1.7.3.3.1	Volume 8, Appendix 9-A	
		o feasibility-level geotechnical stability assessment, including preliminary factors of safety;	Project Overview	Volume 2, Chapter 1, Section 1.2.4.1	n/a	
		o water management features;	Project Overview	Volume 2, Chapter 1, Section 1.6.4.1, Section 1.7.12.2	Volume 7, Appendix 1-H	
		o a conceptual plan for any proposed instrumentation or monitoring;	Project Overview	Volume 2, Chapter 1, Section 1.7.3.3 Volume 5, Chapter 29, Section 29.18	n/a	
		o a risk analysis (e.g. failure modes effects analysis);	Project Overview Accidents and Malfunctions	Volume 2, Chapter 1, Section 1.7.3.3.1 Volume 3, Chapter 23, Section 23.4.3	n/a	
		o details of the development sequence;	Project Overview	Volume 2, Chapter 1, Section 1.6.4.5, Section 1.7.3.3.2	n/a	
		o reference to the interim Guidelines of the BC Mine Waste Rock Pile Research Committee;	Project Overview	Volume 2, Chapter 1, Section 1.7.3.3.1	n/a	
		• specifically with respect to the tailings management facility (TMF), include a description of:	n/a	n/a	n/a	
		o surface and structural geology of the area;	Project Overview	Volume 2, Chapter 1, Section 1.2.2	Volume 7, Appendix 1-A	
		o feasibility-level embankment design including heights, capacity, slopes, and method of construction;	Project Overview	Volume 2, Chapter 1, Section 1.6.4.14, Section 1.6.4.14.2	Volume 7, Appendix 1-H	
		o details pertaining to foundation conditions, including foundation angle and soil properties;	Project Overview	Volume 2, Chapter 1, Section 1.6.4.14	Volume 7, Appendix 1-D, Appendix 1-H	
		o embankment construction materials, volumes, and potential borrow source locations;	Project Overview	Volume 2, Chapter 1, Section 1.6.4.14.8, Section 1.6.4.6	n/a	
		o feasibility-level geotechnical stability assessment, including preliminary factors of safety;	Project Overview	Volume 2, Chapter 1, Section 1.2.4.1, Section 1.6.4.14	Volume 7, Appendix 1-A	
		o storage capacity and description of tailings properties;	Project Overview	Volume 2, Chapter 1, Section 1.6.4.14	Volume 7, Appendix 1-H	
		o a conceptual plan for any proposed instrumentation or monitoring;	Project Overview	Volume 2, Chapter 1, Section 1.7.11.6	Volume 7, Appendix 1-H	

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		o any water diversion structures and spillways;	Project Overview	Volume 2, Chapter 1, Section 1.6.4.14	Volume 7, Appendix 1-H	
		o seepage control rates and seepage management; and	Project Overview	Volume 2, Chapter 1, Section 1.7.11.2	Volume 7, Appendix 1-D, Appendix 1-H	
		o reference to the CDA Dam Safety Guidelines for consequence classification, seismic design criteria, and inflow design flood.	Project Overview	Volume 2, Chapter 1, Section 1.6.4.14.5, 1.6.4.14.6	Volume 8, Appendix 1-D, Appendix 1-H	
		• with respect to the site access road, include a description of:	n/a	n/a	n/a	
		o the types of vehicles and traffic volumes anticipated for pre- and post-construction activities;	Project Overview	Volume 2, Chapter 1, Section 1.6.3.1, Section 1.6.3.2, Table 1.6-1	Volume 7, Appendix 1-C	
		o the level and seasonality of road use;	Project Overview	Volume 2, Chapter 1, Section 1.6.3.1	n/a	
		o peak flows of Bitter Creek that the road will be designed for;	Project Overview	Volume 2, Chapter 1, Section 1.6.3.2.3.6	n/a	
		o sediment and erosion control measures;	Project Overview	Volume 2, Chapter 1, Section 1.6.3.5	n/a	
		o how road construction will mitigate stream channel changes along the alignment;	Project Overview	Volume 2, Chapter 1, Section 1.6.3.4, Section 1.6.3.10	n/a	
		o details regarding the suitability of materials for road construction, including the presence or absence of glacial till along the road alignment.	Project Overview	Volume 2, Chapter1, Section 1.6.3.2.1	n/a	
		• include the description and design of additional water storage facilities or sediment ponds;	Project Overview Management Plans	Volume 2, Chapter 1, Section 1.6.3.5 Volume 5, Chapter 29, Section 29.18.7	Volume 7, Appendix 1-H	
		• include the conceptual design of the Project including design objectives and principles, the characteristics and volumes of cover materials required, construction methods, assessment of expected performance and long-term effectiveness under the	Project Overview Management Plans	Volume 2, Chapter 1, Section 1.1.8 Volume 5, Chapter 29, Section 29.18, Section 29.22	Volume 7, Appendix 1-H	
		• include feasibility-level information pertaining to descriptions of geohazard influences along the roads, portals, TMF, waste storage and stockpile areas, mill, admin buildings, etc.;	Project Overview	Volume 2, Chapter 1, Section 1.2.5	Volume 8, Appendix 9-A	
		• if water treatment is proposed, the Application will describe water treatment requirements and provide a conceptual design of the water treatment facilities, including:	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.3	Volume 8, Appendix 14-C	
		o location;	Project Overview	Volume 2, Chapter 1, Section 1.1.8	n/a	
		o characterization of influent and effluent chemistry and flow;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.1, Section 1.7.12.3.2	Volume 8, Appendix 14-C	
		o treatment process information and demonstration of its effectiveness;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.3	Volume 8, Appendix 14-C	
		o information on the drainage collection and conveyance systems;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3	Volume 7, Appendix 1-H; Volume 8, Appendix 14-C	
		o predicted reagent use;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.3	Volume 8, Appendix 14-C	
		o assessed performance under the expected range of flow and climatic conditions;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.3.	Volume 8, Appendix 14-C	

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		o identification of operating, monitoring and maintenance requirements;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.6. Section 1.7.12.3.5, Section 1.7.12.3.7	Volume 8, Appendix 14-C	
		o anticipated capital and operating costs.	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.5	n/a	
		• if water treatment is proposed, the Application will provide a conceptual design of the disposal facility for the handling of any water treatment plant by-product, including:	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.4	Volume 8, Appendix 14-C	
		o liquid effluent sources;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.3	Volume 8, Appendix 14-C	
		o predicted volumes;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.4	Volume 8, Appendix 14-C	
		o variation with season, project phase and component;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3	Volume 8, Appendix 14-C	
		o physical and geochemical characteristics of waste (including long-term geochemical stability);	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.4	Volume 8, Appendix 14-C	
		o disposal/management plans.	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.4	Volume 8, Appendix 14-C	
		• describe monitoring commitments and responsibilities related to water management;	Project Overview	Volume 2, Chapter 1, Section 1.7.12.3.7	n/a	
		• describe the activities associated with the components and phases of the proposed Project, with figures;	Project Overview	Volume 2, Chapter 1, Section 1.1.8	n/a	
		• describe the proposed mine production schedule, including ore, waste rock, and tailings tonnages;	Project Overview	Volume 2, Chapter 1, Section 1.7.3.1	n/a	
		• describe the proposed activities for closure, reclamation, and post-closure;	Project Overview	Volume 2, Chapter 5, Section 5.6	n/a	
		• include conceptual plans and design for the lower portal plug, with consideration of the CDA Dam Safety Guidelines for seismic, monitoring, and long-term design requirements, as well as alternatives to a plug to contain flooded workings;	Closure and Reclamation Alternative Means	Volume 2, Chapter 5, Section 5.6.2 Volume 2, Chapter 4, Section 4.3.6	n/a	
		• discuss the relevant history of the proposed Project, including exploratory or investigative history;	Project Overview	Volume 2, Chapter 1, Section 1.1.5	n/a	
		• summarize existing and planned land use that overlaps or may be potentially impacted by the proposed Project components and activities, including:	Project Overview	Volume 2, Chapter 1, Section 1.2.9	n/a	
		o land ownership [e.g. private land, provincial Crown land, federal land (including Indian Reserves), Aboriginal title];	Project Overview	Volume 2, Chapter 1, Section 1.2.9.1	n/a	
		o local government zoning or plans;	Project Overview	Volume 2, Chapter 1, Section 1.2.9.1	n/a	
		o tenures (municipal, provincial, federal), licenses, permits, or other authorizations;	Project Overview	Volume 2, Chapter 1, Section 1.2.9.2	n/a	
		o non-tenured current land uses;	Project Overview	Volume 2, Chapter 1, Section 1.2.9.3	n/a	

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		o provincial land use plans (e.g. Land and Resource Management Plans) and provincial land use designations (e.g. Agricultural Land Reserve, Old Growth Management Areas, Forests and Range Practices Act designations) and provincial land use management objectives;	Project Overview	Volume 2, Chapter 1, Section 1.2.8.4	n/a	
		o any other development or activities, whether or not directly related to the proposed Project;	Project Overview	Volume 2, Chapter 1, Section 1.2.9.5	n/a	
		o maps showing location of other uses referenced above in relation to the proposed Project;	Project Overview	Volume 2, Chapter 1, Section 1.2.9	n/a	
		o references to the Application section that assesses land use and potential overlaps/impacts in more detail.	Project Overview	Volume 2, Chapter 1, Section 1.2.9	n/a	
		• information on worker accommodations (location, policies, timing, etc.);	Project Overview	Volume 2, Chapter 1, Section 1.5.7	n/a	
		• describe the Project's economic benefits, including:	Project Overview	Volume 2, Chapter 1, Section 1.5	n/a	
		o capital construction cost estimates, including:	Project Overview	Volume 2, Chapter 1, Section 1.5.1.1	n/a	
		§ breakdown of costs (e.g. land, buildings, equipment) associated with the proposed Project;	Project Overview	Volume 2, Chapter 1, Section 1.5.1.1	n/a	
		§ estimated operating costs over the life of the proposed Project, including breakdown of costs by category (e.g. labour, supplies and materials, administration);	Project Overview	Volume 2, Chapter 1, Section 1.5.1.2	n/a	
		§ estimated costs for decommissioning, closure, abandonment, and reclamation.	Project Overview	Volume 2, Chapter 1, Section 1.5.1.3	n/a	
		o employment estimates including:	Project Overview	Volume 2, Chapter 1, Section 1.5.3	Volume 8, Appendix 19-A	
		§ direct employment to be created, by job category by Project phase, in number of person year (PY) jobs for construction and decommissioning and full-time equivalent (FTE) jobs for operations. Direct employment estimates will be broken down into full-time, part-time, and seasonal job categories;	Project Overview	Volume 2, Chapter 1, Section 1.5.3	n/a	
		§ average wages, by major job category, for the construction and operating periods;	Project Overview	Volume 2, Chapter 1, Section 1.5.5	Volume 8, Appendix 19-A	
		§ breakdown of jobs that will be filled from local, provincial, national, or international labour markets;	Project Overview	Volume 2, Chapter 1, Section 1.5.3	Volume 8, Appendix 19-A	
		§ indirect and induced employment to be generated, by Project phase;	Project Overview	Volume 2, Chapter 1, Section 1.5.3	Volume 8, Appendix 19-A	
		§ information about an employment strategy, if any.	Project Overview	Volume 2, Chapter 1, Section 1.5.4 Volume 5, Chapter 29, Section 29.14	n/a	
		• contractor supply services estimates, including:	Project Overview	Volume 2, Chapter 1, Section 1.5.6	n/a	
		o list of the major types of businesses/contractors to be used, broken down at the local, provincial, and national level, by Project phase;	Project Overview	Volume 2, Chapter 1, Section 1.5.6	n/a	
		o value of supply of service contracts expected, by Project phase;	Project Overview	Volume 2, Chapter 1, Section 1.5.6	n/a	
		o information about a local purchasing strategy, if any.	Project Overview	Volume 2, Chapter 1, Section 1.5.6 Volume 5, Chapter 29, Section 29.14	n/a	
		• annual government revenues, by type (e.g. income tax, license rent, property tax, mineral tax) and jurisdiction (e.g. local, provincial, federal) for all phases of the proposed Project;	Project Overview	Volume 2, Chapter 1, Section 1.5.2	Volume 8, Appendix 19-A	

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		• any benefits the Project may have to the five pillars of assessment (Environmental, Economic, Social, Health and Heritage);	Project Overview	Volume 2, Chapter 1, Section 1.1.3, Section 1.5	n/a	
		• Canadian dollar estimates, which will be provided in real dollars and with an explanation of how they are measured (e.g. discount rates);	Project Overview	Volume 2, Chapter 1, Section 1.5.1, Section 1.5.2, Section 1.5.3	Volume 8, Appendix 19-A	
		• statement of all assumptions and references for the above information.	Project Overview	Volume 2, Chapter 1, Section 1.5.2, Section 1.5.3	Volume 8, Appendix 19-A	
		IDM will include a conceptual site model (CSM) in the Application to visually represent the potential interactions between the proposed Project activities and the biophysical components of the environment, and in response to requests from Nisga'a Nation and regulators. The CSM will be informed by the Screening Level Ecological Risk Assessment (SLEcoRA), which focuses on ecological receptors, and Human Health Risk Assessment (HHRA), which focuses on human receptors.	Project Overview	Volume 2, Chapter 1, Section 1.2.6.2	Volume 8, Appendix 22-B	
		If new and/or innovative mitigations are proposed for the Project and are not in conventional use at mine sites in BC, the Application will include the results of pilot testing, research and development work, and/or provide relevant analogues from other mining applications, to demonstrate their effectiveness and appropriateness for the proposed Project.	n/a	n/a	n/a	
1.2	Applicable Authorizations	The Application will:	n/a	n/a	n/a	
		• list in table format all applicable licenses, permits, and/or approvals that are already received or required for the phases of the proposed Project and the associated responsible regulatory body; and	Project Overview	Volume 2, Chapter 1, Section 1.3	n/a	
		• state if the proponent has or intends to request concurrent permitting under the Act pursuant to the Concurrent Approval Regulation (BC Reg. 371/2002).	Project Overview	Volume 2, Chapter 1, Section 1.3	n/a	
1.3	Project Design and/or Alternative Means of Carrying out the Project	The Application will include:	n/a	n/a	n/a	
		• an assessment of the alternative means of carrying out the proposed Project that are technically and economically feasible including, but not limited to, the alternatives identified in the AIR;	n/a	Volume 2, Chapter 4	n/a	
		• mining method(s);	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.3.3.2	n/a	
		• power source(s);	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.3.7	n/a	
		• underground access (e.g., access corridor and tunnel routes, portal locations, conveyor routes)	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.3.3.1	n/a	
		• water management options (e.g., water disposal, treatment and re-use);	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.4.4	n/a	
		• plugging the tunnel at closure to flood the underground workings;	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.4.5	n/a	
		• on-site haulage options (e.g., truck haulage versus conveyor); and	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.3.2.2	n/a	
		• tailings and waste rock storage and disposal.	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.3.4, Section 4.3.6	Volume 7, Appendix 1-J	

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		• the rationale and criteria used to select the proposed means of undertaking the proposed Project;	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.2.1	n/a	
		• the methodology and criteria used in the assessment of alternatives.	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.2.1	n/a	
		The following methods will be used to evaluate alternatives in the Application: • identifying alternative means to carry out the Project, such as: o developing specific criteria to determine the technical and economic feasibility of the alternative means; and o identifying those alternative means that are technically and economically feasible, describing each alternative means in sufficient detail to allow for a comparison among alternatives.	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.2.1	n/a	
1.4	Tailings Management Alternatives Assessment	The Application will provide the following information:	n/a	n/a	n/a	
		• a description and an assessment of alternative means of undertaking the proposed Project with respect to options for tailings management that considers technology, siting, and water balance;	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.3.6	Volume 7, Appendix 1-J	
		• a presentation and comparison of best practices and best available technologies (BAT) for tailings management for the Project, along with options for managing water balance to enhance safety and reduce the risk (likelihood and consequence) of a tailings dam failure during all phases of mine life (construction, operations, closure, post-closure). The BAT assessment for the TMF will be conducted by the design engineer and will be reviewed by an independent engineer;	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.3.6	Volume 7, Appendix 1-J	
		• a presentation and comparison of technically and economically viable engineering solutions that are available to adequately address site conditions;	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 4.3.6	Volume 7, Appendix 1-J	
		• a clear and transparent evaluation of the factors that supported the selection of the most suitable option. Factors that will be taken into consideration in the evaluation include safety, technical, and financial aspects and implications for environmental, health, social, heritage, and economic values. The assessment will consider these factors in relation to tailings management options in both the short and long-term context. Life cycle cost assumptions (construction, operations, closure, post-closure) will be included in the analysis of options.	Alternative Means of Undertaking the Project	Volume 2, Chapter 4, Section 3.6	Volume 7, Appendix 1-J	
2.0	**Environmental Assessment Process**					
2.1	Provincial EA Process	The Application will include:	n/a	n/a	n/a	
		• a statement that the proposed Project is subject to review under the *Act,* identifying the trigger(s) for the review under the *Act* ;	Assessment Process	Volume 2, Chapter 2, Section 2.3.1	n/a	
		• a statement that the Application has been developed pursuant to the AIR approved by EAO and complies with relevant instructions provided in the Section 11 Order and any other direction provided by EAO;	Assessment Process	Volume 2, Chapter 2, Section 2.3.4.1	n/a	
		• a table documenting applicable milestones, including, but not limited to, issuance of Section 10 and 11 Orders, working group meetings, any public comment periods or open houses, and the issuance of the AIR, including links to documents on EAO's public website;	Assessment Process	Volume 2, Chapter 2, Section 2.3.6	n/a	

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		• a list of the government agencies and Aboriginal Groups that participated in the EA, a summary of their participation, and a list of the key issues raised by each party and the status of issue resolution. (IDM will cross-reference, as appropriate, other Section of the Application that deal further with consultation and issues raised);	Assessment Process	Volume 2, Chapter 2, Section 2.6.1, Section 2.6.2, Section 2.6.3; Chapter 3, Section 3.7.2	Volume 9, Appendix 27-A Volume 10, Appendix 28-A	
		• a summary of public participation in the EA, a list of the key issues raised, and the status of issue resolution (with cross-references, as appropriate, to other Section of the Application that deal further with consultation and issues raised).	Assessment Process	Volume 2, Chapter 2, Section 2.6.3	Volume 10, Appendix 28-A	
2.2	Federal EA Process	The Application will include:	Assessment Process	n/a	n/a	
		• the relevant review threshold that has been met under the federal *Regulations Designating Physical Activities* ;	Assessment Process	Volume 2, Chapter 2, Section 2.4.1	n/a	
		• whether the Canadian Environmental Assessment Agency has determined that a federal EA is required, including a link to the relevant documents on the CEAA Registry;	Assessment Process	Volume 2, Chapter 2, Section 2.4.1	n/a	
		• whether the proposed Project is undergoing a substituted, coordinated, or other type of federal and provincial review process;	Assessment Process	Volume 2, Chapter 2, Section 2.2	n/a	
		• a table documenting applicable completed and upcoming federal milestones. Milestones include, but are not limited to, any public comment periods, notice of commencement, and finalization of the Environmental Impact Statement Guidelines.	Assessment Process	Volume 2, Chapter 2, Section 2.4.4	n/a	
2.3	Nisga'a Final Agreement	The Application will include:	n/a	n/a	n/a	
		• a description of the approach used to address the EA provisions required under Chapter 10 paragraphs 8(e) and (f) in the Nisga'a Final Agreement (NFA);	Assessment Process	Volume 2, Chapter 2, Section 2.5	n/a	
		• a description of the approach used to assess the effects of the Project on Nisga'a Nation's Treaty interests, including recommendations to prevent or mitigate those effects, as required under Chapter 10 paragraph 8(e) and (f) of the NFA.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.3.6.7.2	n/a	
Part B	**ASSESSMENT OF ENVIRONMENTAL, ECONOMIC, SOCIAL, HERITAGE AND HEALTH EFFECTS**					
3.0	**Assessment Methodology**	This section of the Application must describe the methods used to assess the potential adverse effects of the Project. The assessment methodology must be based on EAO's Guideline for the Selection of Valued Components and Assessment of Potential Effects (September 2013).	Effects Assessment Methodology	Volume 3, Chapter 6 Volume 3, Chapter 6, Section 6.1.1, Section 6.1.2, Section 6.2, Section 6.7.2, Section 6.8, Section 6.9, Section 6.12	n/a	
		A standardized effects assessment methodology will be applied to all assessment topics. This methodology will follow recommended provincial and federal guidelines and legislated requirements, pursuant to the Act and CEAA 2012. Guidance documents used to inform the assessment methods will be referenced in the Application and are detailed for each component in Section 4 to 8 of this AIR.	Effects Assessment Methodology	Volume 3, Chapter 6 Volume 3, Chapter 6, Section 6.1.1, Section 6.1.2, Section 6.2, Section 6.7.2, Section 6.8, Section 6.9, Section 6.12	n/a	

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		Specific steps will be provided in each discipline section of the Application.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.1.1	n/a	
3.1	Issues Scoping and Selection of Valued Components	The Application will summarize the process and methodologies used to identify and select the Valued Components (VCs) and Intermediate Components (ICs) for assessment. The Application will also include the rationale for any differences in the list of VCs or ICs presented in the Application from those listed in the AIR.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.1.2 Volume 3, Chapter 6, Section 6.2, Section 6.2.1, Section 6.2.2	n/a	
3.1.2	Selection of Valued Components	The Application will include an identification of potential effects that may occur as a result of the interaction between the Project and selected ICs and receptor VCs.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.5	n/a	
		The Application will provide a comprehensive assessment of both types of components, and will present a significance determination only for VCs as the assessment will focus on VCs as the ultimate receptor.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.3 to 6.13	n/a	
		The Application will identify the discipline-specific VCs and ICs that have been selected for the purposes of the assessment.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.2.1	n/a	
3.2.1	Spatial, Temporal, Administrative and Technical Boundaries	The Application will describe the methods used in identifying spatial, temporal, administrative, and technical boundaries. Information on spatial, temporal, administrative, and technical boundaries for specific VC or IC will be included in the appropriate VC or IC Section of this document and the Application and will encompass all relevant Project phases, components, and activities. The Application will include the rationale for any differences in boundaries from those presented in the AIR.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.3, Section 6.3.1, Section 6.3.2, Section 6.3.3	n/a	
		IDM will identify and present the LSA and RSA used for the effects assessment of each VC and IC and include the rationale behind the selection of each assessment boundary. Maps outlining the spatial extent of each LSA and RSA will also be provided.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.3	n/a	
3.3	Existing Conditions	For each VC and IC, the Application will include:	n/a	n/a	n/a	
		• a description of the existing (or baseline) conditions within the study area in sufficient detail to enable potential Project-VC or -IC interactions to be identified, understood, and assessed;	Effects Assessment Methodology Air Quality Effects Assessment Noise Effects Assessment	Volume 3, Chapter 6, Section 6.4	n/a	
		• a description of the quality and reliability of the existing (or baseline) data and its applicability for the purpose used, including any gaps, insufficiencies, and uncertainties, particularly for the purpose of monitoring activities;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.4	n/a	
		• reference to natural and/or human-caused trends that may alter the environmental, economic, social, heritage, and health setting, irrespective of the changes that may occur as a result of the proposed Project or other project and/or activities in the area;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.4	n/a	
		• an explanation of if and how other past and present projects and activities in the study area have affected or are affecting each VC or IC;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.4	n/a	

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		• documentation of the methods and data sources used to compile information on existing (or baseline) conditions, including any standards or guidelines followed;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.4	n/a	
		• where additional Project and VC- or IC-specific field studies are conducted, the scope and methods to be used will follow published documents pertaining to data collection and analysis methods, where these are available. Where methods used for the assessment deviate from applicable published guidance, the rationale for the variance will be provided in the Application;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.4	n/a	
		• description of what Traditional Ecological Knowledge (TEK), including Aboriginal Traditional Knowledge, was used in the VC or IC assessment.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.4	n/a	
		The Application will contain the existing (or baseline) technical reports in the Appendices and will summarize key findings contained in these technical reports directly in the Application, in a manner that allows the reader to understand each VC or IC effects assessment.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.4	n/a	
3.4	Potential Effects	The Application will summarize the overall process and methodologies used to identify and assess the potential effects of the proposed Project on the identified VCs and ICs.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.5	n/a	
		For each VC and IC, the Application will:	n/a	n/a	n/a	
		• identify the potential interactions of the proposed Project and the considered and selected VCs and ICs;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.5	n/a	
		• identify and describe the potential adverse effects resulting from the proposed Project;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.5	n/a	
		• demonstrate how feedback from Aboriginal Groups, the public, stakeholders, and government agencies on VC and IC selection and assessment was incorporated, as appropriate.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.5	n/a	
		The Application will include a matrix to identify key interactions that may contribute to potential effects for all phases of the Project. The matrix will identify the physical works and activities to be implemented during the Project as it relates to each VC or IC.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.5	n/a	
		The Application will identify any Project activity-VC or -IC interactions that were excluded from further assessment, including the methods and criteria used to justify the exclusion and input received from EAO, government agencies, Aboriginal Groups, and the public regarding the exclusion.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.2.1	n/a	
		IDM will conduct two risk assessments to evaluate the effects of chemicals of potential concern (COPCs) resulting from Project activities during construction and operations:	n/a	n/a	Volume 8, Appendix 22-A) Volume 8, Appendix 22-B	
		• a Screening Level Ecological Risk Assessment (SLEcoRA), which focuses on ecological receptors; and	n/a	n/a	Volume 8, Appendix 22-B	
		• a Human Health Risk Assessment (HHRA), which focuses on human receptors.	n/a	n/a	Volume 8, Appendix 22-A	

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		The HHRA and SLEcoRA will be completed for baseline conditions and for construction and operation to allow for an estimate of the incremental risk/hazard related to the Project. The HHRA and SLEcoRA will consider all phases of the Project (including construction, operations, closure, and post-closure).	n/a	n/a	Volume 8, Appendix 22-B, Section 6.3.1	
		The SLEcoRA will be included in an appendix to the Application and will align with all biophysical effects assessments. The HHRA will be referenced in section 8 (Human Health Effects Assessment). Both risk assessments will be completed in accordance with applicable federal and provincial risk assessment guidance (e.g. BCMOE, 1998; BCMOE, 2013; BCMOE, 2015; SABCS, 2008; SABCS, 2010; Health Canada, 2010; and CCME, 2016). Both risk assessments will inform the CSM included in Section 1.1 (Description of Proposed Project). Both risk assessments will inform the CSM included in Section 1.1 (Description of Proposed Project).	n/a	n/a	Volume 8, Appendix 22-A, Section 12 Volume 8, Appendix 22-B, Section 9	
3.5	Mitigation Measures	For each VC and IC, the Application will:	n/a	n/a	n/a	
		• describe the approach to identify and analyze mitigation measures, including any management and compensation plans proposed by IDM, which will be implemented to address potential effects;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.6,	n/a	
		• describe the mitigation measures incorporated into the Project, including site and route selection, project scheduling, project design (e.g., equipment selection, placement, emissions abatement measures), and construction and operation procedures and practices;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.6.1	n/a	
		• describe any standard mitigation assumed or proposed to be implemented, including consideration of best management practices, environmental management plans, environmental protection plans, contingency plans, emergency response plans, and other general practices;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.6.1	n/a	
		• clearly indicate how the mitigation measures will mitigate the potential adverse effects on the VC or IC;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.6	n/a	
		• provide the rationale for the proposed mitigation measures, including why further avoidance or reduction measures for adverse effects may not be considered feasible and the need for and scope of any proposed compensation or offset;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.6	n/a	
		• evaluate the anticipated success of each mitigation measure and describe rationale and analysis for these evaluations. If there is little relevant/applicable experience with a proposed mitigation measure and there may be some question as to its effectiveness, describe the potential risks and uncertainties associated with use of the mitigation;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.6.3	n/a	
		• include the time required for mitigation to become effective to enable understanding of the duration of residual effects and the temporal characteristics of reversibility;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.6.3, Section 6.7.2	n/a	
		• summarize the mitigation measures for potential Project effects by project phase and identify any mitigation measures that are in management or compensation plans.	Conclusions	Volume 6, Chapter 31, Section 31.4	n/a	

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		The Application will include a table that summarizes the Proposed Mitigation Measures and their effectiveness.	Effects Assessment Methodology Conclusions	Volume 3, Chapter 7 to 22, Section, X.6 Volume 6, Chapter 31, Section 31.3	n/a	
3.6	Characterization of Residual Effects	The Application will describe, in a table format, the residual effects using the residual effects criteria context, magnitude, extent, duration, reversibility, and frequency, as defined in EAO's Guideline for the Selection of Valued Components and Assessment of Potential Effects. Where feasible, these criteria will be described quantitatively in the Application for each VC or IC. When residual effects cannot be characterized quantitatively, the Application will characterize these effects qualitatively. Definitions	Effects Assessment Methodology Conclusions	Volume 3, Chapter 6, Section 6.7.1, Section 6.7.2 Volume 6, Chapter 31, Section 31.1	n/a	
		The use of any qualitative terms (e.g. high, moderate, low, etc.) will be accompanied by distinct definitions for each of these rankings. An explanation will be included for the conclusion reached for each criterion used to characterize a residual effect	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.7.2	n/a	
		When residual effects on a VC or IC are determined and the VC or IC is also considered a “pathway” for other potential effects on other VCs, the Application will identify the linkages between them and the discipline-specific studies to which the information has been forwarded for further evaluation.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.7.2	n/a	
		The Application will provide the general definitions for the effects criteria to be characterized and will indicate that VC- or IC-specific methods for applying the effects criteria will be presented in the relevant discipline-specific Section of the Application.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.7.2	n/a	
		The Application will include a table that summarizes the residual effects to VCs and ICs.	Effects Assessment Methodology Conclusions	Volume 3, Chapters 7 to 22, Section X.7 Volume 6, Chapter 31, Section 31.3	n/a	
3.7	Likelihood	The Application will assess the likelihood for all residual adverse effects using appropriate quantitative or qualitative terms and sufficient description to understand how the conclusions were reached. Definitions of any qualitative terms, such as ‘low’, ‘moderate’, or ‘high’ probability will be provided.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.8	n/a	
3.8	IDM’s Determination of Significance	The Application will present the process and methodology used to define and evaluate the significance of residual effects, including how the term “significance” has been used in relation to each VC using quantitative and qualitative thresholds.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.9	n/a	
		A conclusion of significance of residual adverse effects will be provided for each VC.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.9	n/a	
		The Application will describe the overall approach to the determination of significance for all VCs. A determination of significance will be conducted for all residual effects. The determination will be based on the residual effects characterization in Section 3.6 of the AIR.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.9	n/a	
3.9	Confidence and Risk	The Application will summarize the process and methodology used to evaluate the levels of confidence associated with residual effects predictions and in particular, how any identified uncertainty may affect either the likelihood or the significance of the predicted residual effect.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.10	n/a	

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		The Application will also describe any measures to reduce uncertainty through monitoring, adaptive management or other follow-up programs.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.10	n/a	
		The Application will summarize the process and methodology used to determine if additional risk analysis is required. If additional risk analysis is required, the Application will summarize the process and methodology used for this analysis and the conclusions, including the range of likely, plausible, and possible outcomes with respect to likelihood and significance.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.10	n/a	
		The Application will describe the approach to prediction confidence and the incorporation of uncertainty into the discipline-specific Section of the Application. The discipline-specific confidence and uncertainty Section of the Application will identify the key sources of uncertainty for each measurement indicator and assessment endpoint assessed and discuss how uncertainty was addressed to increase the level of confidence that residual effects will not be larger than predicted.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.10	n/a	
		Studies will use quantitative methods (e.g., sensitivity analyses) or qualitative discussions to assess prediction confidence to the extent reasonable. Assumptions for statistical tests, as well as details on models used as part of the Application, will be discussed within applicable disciplines. Where appropriate, uncertainty may also be addressed by additional mitigation, as required, or through monitoring programs designed to verify the effects predictions and/or the effectiveness of mitigation.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.10	n/a	
		Each discipline section will include a discussion of how uncertainty has been addressed and an evaluation of the resulting level of confidence in the residual effects analyses. The assessment of prediction confidence and uncertainty will consider key uncertainties associated with the effectiveness of mitigations.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.10	n/a	
3.10	Cumulative Effects Assessment	The Application will describe the methodology for the cumulative effects assessment including justification for the inclusion of other developments likely to contribute to the cumulative effect (a cumulative effects assessment is required when a residual effect on a VC or IC is identified).	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.2	n/a	
3.10.1	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The Application will identify past, present or reasonably-foreseeable projects or activities that may have an impact or could contribute to the assessment of cumulative effects. For identified cumulative effects, the following development categories will be considered in the Application: • Certain: Projects or activities that have already been built or conducted for which the environmental effects overlap with those of the proposed Project (i.e. certain); and • Reasonably foreseeable: Projects that are either proposed (public disclosure) or have been approved to be built, but are not yet built, for which the environmental effects overlap the proposed Project.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.2	n/a	
		The Application will describe the methodology for identifying potential interactions between residual Project effects and the effects of other developments, including a description of the following:	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12	n/a	

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		• the spatial boundaries for the cumulative effects assessment for each VC or IC, including maps;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.1.1	n/a	
		• the spatial and temporal boundaries of other developments;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12	n/a	
		• the potential for interaction (spatial and temporal) and linkages (overlap) of VCs or ICs with other developments.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.1	n/a	
		The Application will include:	n/a	n/a	n/a	
		• a table of all past, present and reasonably foreseeable projects that will be included in the cumulative effects assessment, should one be required for a particular VC or IC;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.2	n/a	
		• a general description of the information sources used to identify reasonably-foreseeable projects and activities;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.2.1, Section 6.12.2.2.	n/a	
		• a map showing the location of the projects and activities.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.2	n/a	
		The Application will provide rationale for any differences presented in this list from those projects and activities listed in the Application.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.2	n/a	
3.10.2	Conducting a Cumulative Effects Assessment	The Application will summarize the process and methodology used to conduct the cumulative effects assessment, including the identification of potential cumulative effects, **identification of additional mitigation measures,** and evaluation of any (residual) cumulative effects using the same methodology described above in Section 3.6 to 3.9 of the AIR.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.3	n/a	
		The following steps will be taken to conduct a cumulative effects assessment: 1. Review the residual effects for each VC and IC. 2. Identify whether there is any spatial or temporal overlap of Project-related residual effects with the effects from other past, present, or reasonably foreseeable projects or activities. 3. Evaluate whether the Project-related residual effects may interact cumulatively with	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.12, Section 6.12.3	n/a	
		The Application will include a table that summarizes the cumulative effects assessment.	Effects Assessment Methodology Conclusions	Volume 3, Chapter 6, Section 6.12.3.6 Volume 6, Chapter 31, Section 31.2	n/a	
3.11	Follow-up Strategy	Where a residual adverse effect and/or cumulative effect has been identified for a VC or IC, the Application will include a description of a follow-up strategy, where appropriate, that:	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.13	n/a	
		• identifies the measures to evaluate the accuracy of the original effects prediction;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.13	n/a	
		• identifies the measures to evaluate the effectiveness of proposed mitigation measures;	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.13	n/a	

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		• proposes an appropriate strategy to apply in the event that original predictions of effects and mitigation effectiveness are not as expected. This includes reference to further mitigation, involvement of key stakeholders, Aboriginal Groups, government agencies, and any other measures deemed necessary to manage the issue.	Effects Assessment Methodology	Volume 3, Chapter 6, Section 6.13	n/a	
4.0	**Environmental Effects Assessment**	The Application will include an assessment of Environmental Effects VCs and ICs identified in the AIR. The assessment will be conducted in accordance with the methodology specified in Section 3.0 Assessment Methodology of the AIR, using the organizational structure demonstrated in this section.	All	Volume 3, Chapter 7 to 22 , Section 1 to 10	n/a	
	Valued Component or Valued Component Group	The Application will identify the VCs and ICs selected for assessment according to the methodology specified in Section 3.1 of the AIR (Issues Scoping and Selection of Valued Components). The Application will also include the rationale for any differences in the list of VCs and ICs presented in the Application from those listed in the AIR.	All	Volume 3, Chapter 7 to 22 , Section 1 to 10	n/a	
4.1	Air Quality	A concise introduction of the Air Quality assessment will be provided in the Application for this IC [Air Quality], including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.1	n/a	
		The Air Quality assessment will be informed by the baseline meteorological and air quality technical report containing information regarding siting and instrumentation of air quality monitoring stations. The air quality baseline report will be submitted to the working group prior to using the data in the Air Quality assessment. The report will include monitoring station photos and maintenance records for the meteorological equipment.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.9	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the Air Quality assessment.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.3.2	n/a	
	Information Sources	The Application will provide the information sources used in the assessment. Information sources will include the Air Quality reports prepared for the Kerr-Sulpherets-Mitchell (KSM), Brucejack, Blackwater Gold, and Kemess Underground mine projects.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.3.1 , Section 7.4.3.1, Section 7.4.4	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will identify air quality as an IC that may be affected by the Project, creating an effect pathway to selected VCs (potential receptors). The Application will describe the measurement indicators used to comprehensively evaluate the potential Project-induced changes to air quality, including:	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.3,3	n/a	
		• greenhouse gas emissions (CO_2, CH_4, and N_2O);	Air Quality Modelling Report	n/a	Volume 8, Appendix 7-A, Section 3	
		• air quality, measured through concentrations of criteria air contaminants in air (e.g., particulate matter, SO_2, CO, NO_2), metals, and volatile organic compounds;	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.3.3	n/a	
		• dustfall rate.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.3.3	n/a	
		Rationale for inclusion or exclusion of the listed air contaminants from qualitative or quantitative assessment will be provided in the Application.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.3.3	n/a	

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4.1.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative, and technical study area boundaries, as applicable to the IC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.3.4	n/a	
4.1.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4	n/a	
		A technical report will be included as part of the Application that summarizes the equipment and methods used for baseline meteorological data collection. Data from this Project meteorological station, historical site, and regional meteorological stations will be used to characterize the baseline meteorology at and near the Project site. Local meteorological conditions will be described for:	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.1.1	Volume 8, Appendix 12-A	
		• wind (patterns and extremes of velocity and direction);	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.1.1	Volume 8, Appendix 12-A	
		• precipitation (volume, frequency, type, spatial, and temporal variability);	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.1.1	Volume 8, Appendix 12-A	
		• air temperature (averages, extremes, diurnal, and monthly variability);	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.1.1	Volume 8, Appendix 7-A, Appendix 12-A	
		• relative humidity (averages, extremes, diurnal, and monthly variability);	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.1.1	Volume 8, Appendix 12-A	
		• solar radiation (averages, extremes, diurnal, and monthly variability).	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.1.1	Volume 8, Appendix 12-A	
		Baseline location maps, tabular summaries, and figures (i.e., wind roses, diurnal and monthly histograms) will be provided to summarize the existing meteorological conditions. The methods section will identify the quality assurance and quality control (QA/QC) and data management tools used for meteorological baseline data collection and compilation prior to use in the Application.	n/a	n/a	Volume 8, Appendix 7-A, Appendix 12-A	
		The air quality baseline characterization for existing conditions in the Application will primarily utilize available information from other baseline studies and environmental assessment work completed recently in the region, remote monitoring stations, and information collected in the Red Mountain study area. Results from baseline studies conducted for these other regional EAs will be used in characterizing the current conditions with respect to criteria air contaminants (CACs) concentrations in the Project area, including, but not limited to: • suspended particulates (TSP, PM10 and PM2.5); • dust deposition; • nitrogen dioxide (NO2); • sulphur dioxides (SO2); and • carbon monoxide (CO).	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.4	n/a	
		Additional data from Kerr-Sulphurets Mitchell (KSM) Mine, Brucejack Mine, and Schaft Creek Mine have been use to define baseline dustfall deposition rates in the region and will be relied upon for the Project assessment as well	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.4.2	n/a	

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Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The baseline meteorological and air quality technical report will provide rationale regarding the applicability and use of available air quality information and monitoring data. The following detail in relation to utilized historic monitoring data will be provided: • any similarities or differences between the other Projects / studies and the Red Mountain Underground Gold Project which could materially affect the applicability of the information to the air quality baseline characterization and assessment presented in the Application; • figures showing the locations of the other Projects and associated monitoring stations; • a list of instrumentation used and maintenance records completed; and • any readily available information regarding consultation with MoE on historic monitoring programs.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.4.2, Section 7.4.4	n/a	
		The Application will identify and describe the existing provincial and federal legislation, policies, best management practices, and guidance documents related to air quality. These will include: • Canadian Environmental Protection Act (1999); • Canadian Ambient Air Quality Standards (CAAQS); • BC Ambient Air Quality Objectives (BC MOE 2016); • Guidance on Application of Provincial Interim Air Quality Objectives for NO2 and SO2 (BC MOE 2014); • The Pollution Control Objectives for the Mining, Smelting, and Related Industries of British Columbia (BC MOE 1979); • Guideline for Air Quality Dispersion Modelling in BC (BC MOE 2015); • Canadian Ambient Air Quality Standards (CAAQs) for Fine Particulate Matter (PM2.5) and Ozone (CCME 2013); • Meteorological Data and Sensing Requirements in the B.C. Ministry of Environment (BC MOE 2013); • Meteorological Sensors, Calibration and Routine Verification Ambient Air Program Standard Operating Procedures (SOP) (BC MOE 2016); • Air Monitoring Site Selection and Exposure Criteria (BC MWLAP 2003); • Air Monitoring Instrumentation - Guidance for Instrument Selection (BC MOE 2016; and • Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (BC MOE 2016). The most up to date air quality objectives and standards developed by federal and provincial environmental and health agencies (referenced above) to provide guidance for environmental protection decisions will be summarized.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.2	n/a	
4.1.3	Potential Effects	The Application will identify potential adverse effects to the IC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.5	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will summarize the anticipated interactions between the proposed Project and this IC. IDM anticipates that the following proposed Project components or activities will interact with Air Quality in the Project area:	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.5.2	n/a	
		• stack emissions from Project infrastructure components, such as generators;	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.5.2	n/a	
		• dust created from infrastructure components, such as the mill and crusher, released through baghouses and dust collectors at the mill;	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.5.2	n/a	
		• exhaust emissions from equipment and vehicles such as dozers, haul trucks, forklift, graders, and fuel trucks;	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.5.2	n/a	
		• fugitive dust created from vehicles traveling on unpaved roads, the TMF, and other fugitive dust sources.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.5.2	n/a	
4.1.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the IC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application will be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted	Air Quality Effects Assessment & Air Quality Management Plan	Volume 3, Chapter 7, Section 7.6.3, Volume 5, Chapter 29, Section 29.4.10	n/a	
4.1.5	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.7	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, and predictive confidence, in accordance with Section 3.7 (Likelihood), and 3.9 (Confidence and Risk) of the AIR.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.7	n/a	
		The assessment will include consideration of:	n/a	n/a	n/a	
		• all sources (e.g., the mill) and estimated emissions of air contaminants associated with each phase of the Project;	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.7	Volume 8, Appendix 7-A, Sections A.1 - A.8	
		• adaptive management planning for control of air contaminants and fugitive dust associated with the Project;	Air Quality Effects Assessment Air Quality Management Plan	Volume 3, Chapter 7, Section 7.6.1 Volume 5, Chapter 29, Section 29.4.3	n/a	
		• air dispersion modelling assessment consistent with the requirements of the Guideline for Air Quality Dispersion Modelling in BC. A model plan will be submitted to the BC Ministry of Environment for review prior to undertaking the air dispersion modelling assessment. Given the recognized uncertainty with emission estimates and dispersion modelling predictions from fugitive dust sources, the assessment will consider the predicted impacts of Project point source emission sources and fugitive	Air Quality Modelling Report	n/a	Volume 8, Appendix 7-A, Section B	
		• dispersion modelling will be used as a tool to:	Air Quality Modelling Report	n/a	Volume 8, Appendix 7-A, Section B	
		o inform adaptive management and the monitoring plan for air quality;	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.5.1.1	n/a	
		o identify sources or groups of sources that have the potential to impact air quality outside the project boundary or at sensitive receptors identified by other pathways;	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.7.3.2	Volume 8, Appendix 7-A, Section 2.1	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		o predict the impacts of Project emissions on ambient air quality and dust deposition;	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.7.4	n/a	
		o provide air quality predictions for input to other pathways.	Air Quality Modelling Report	Volume 3, Chapter 7, Section 7.5.3	Volume 8, Appendix 7-A, Section D	
4.1.6	Cumulative Effects	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.8.4.1	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.6, Section 7.8.4.1	n/a	
		• where an adverse residual cumulative effect is identified as exceeding the relevant British Columbia Ambient Air Quality Objectives, the Application will also describe the likelihood, in accordance with Section 3.7 (Likelihood), and 3.9 (Confidence and Risk) of the AIR.	n/a	Volume 3, Chapter 7, Section 7.8	n/a	
4.1.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 Follow-up Strategy of this AIR.	Air Quality Effects Assessment Air Quality Management Plan	Volume 3, Chapter 7, Section 7.9 Volume 5, Chapter 29, Chapter 29.4.7	n/a	
		The Application will provide the details for any monitoring and follow-up programs recommended to confirm the assessment of Air Quality and compliance with ambient air quality objectives.	Air Quality Effects Assessment Air Quality Management Plan	Volume 3, Chapter 7, Section 7.9 Volume 5, Chapter 29, Chapter 29.4.7	n/a	
4.1.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects for air quality. The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their assessments.	Air Quality Effects Assessment	Volume 3, Chapter 7, Section 7.10	n/a	
4.2	Noise	A concise introduction of the Noise assessment will be provided for this IC, including the purpose of the assessment, the structure of the assessment, and linkages to other VCs.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.1	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the Noise assessment.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.3.2	n/a	
	Information Sources	The Application will provide a list of the information sources used in the assessment.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.3.1	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will identify that noise is an IC that may be affected by the Project, creating an effect pathway to selected receptor VCs.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.3.3	n/a	
		The Application will describe the measurement indicators used to comprehensively evaluate the Project induced potential changes to noise quality.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.3.3	n/a	
4.2.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable to the IC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.3.4	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
4.2.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.4	n/a	
		The Application will characterize existing conditions related to Noise relevant to the assessment of the Project, particularly as it relates to generating a baseline. The Application will describe the existing conditions against which potential changes from the Project are compared and evaluated, which include: • Guidance for Evaluating Human Health Impacts in Environmental Assessment (Health Canada 2011); • Effects of Noise and Reverberation on Speech (Levitt and Webster 1991); • BC OGC (British Columbia Oil and Gas Commission). 2009. British Columbia Noise Control Best Practices Guideline. March 2009. Fort St. John, BC; • Noise Control. Prepared by the Alberta Energy and Utilities Board (Alberta EUB. 2007. Directive 038); • Using a change in percentage highly annoyed with noise as a potential health effect measure for projects under the Canadian Environmental Assessment Act (Michaud, Bly, and Keith 2008); • Environmental Code of Practice for Metal Mines (Environment Canada 2009); • Description, measurement and assessment of environmental noise – Part 1: Basic quantities and assessment procedures (ISO) 1996-1:2003 (ISO1996:2); • Acoustics - Attenuation of sound during propagation outdoors - Part 2: General method of calculation (ISO 9613-2:1996 [ISO9613:2]); and • Guidelines for Community Noise (WHO 1999).	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.2, Section 8.4.4	n/a	
		The Application will describe available local knowledge related to current noise conditions. The Application will refer to any relevant documents produced for the publicly available studies for other projects in northwest BC to support the baseline estimates applied.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.4.3.1	n/a	
		The Application will provide a description of the regulatory and policy frameworks surrounding the management of noise issues, referencing relevant legislation, and a list of applicable provincial and regional best management practices and guidance documents to be implemented.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.2	n/a	
4.2.3	Potential Effects	The Application will identify potential adverse effects to the IC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.5.3	n/a	
		The Application will summarize the anticipated interactions between the proposed Project and the IC being assessed within the LSA.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.5.2	n/a	
4.2.4	Mitigation Measures	The Application will identify measures to avoid, manage, or otherwise mitigate potential adverse effects to the IC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.6	n/a	
4.2.5	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.7.2.1	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, in accordance with Section 3.7 (Likelihood), and 3.9 (Confidence and Risk) of the AIR.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.7.2	n/a	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.6.3, 8.7.3.3	n/a	
		The Application will characterize changes in measurement indicators and predicted incremental residual effects of the Project on VC assessment endpoints. The assessment will include consideration of: • the location of potential noise-sensitive wildlife and human receptors relative to the Project area; • potential noise sources of noise (both tonal and impulsive) during all Project phases (e.g., traffic, processing equipment, or sirens); • the sound emissions from major noise sources during all Project phases; • noise model predictions of daytime and night time noise propagation from the Project site. The model will consider terrain, spatial layout of the proposed Project and sensitive noise receiver locations; and • a comparison of predicted noise levels at sensitive receptor locations to relevant criteria during Construction and Operations phases during daytime and night time.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.5.3	Volume 8, Appendix 8-A	
4.2.6	Cumulative Effects	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present and reasonably foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.8.5	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Noise Effects Assessment	Volume 3 Chapter 8, Section 8.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.8.4.1	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood and predictive confidence, in accordance with Section 3.7 (Likelihood) and 3.9 (Confidence and Risk) of the AIR.	Noise Effects Assessment	Volume 3, Chapter 8, Section 8.8.7	n/a	
4.2.7	Follow-up Strategy	The Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Noise Effects Assessment Management Plans Monitoring and Follow-up Programs	Volume 3, Chapter 8, Section 8.9 Volume 5, Chapter 29, Section 29.16	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the environmental assessment predictions made for Noise.	Management Plans	Volume 5, Chapter 29, Section 29.16	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
4.2.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects for Noise. The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their assessments.	Noise Effects Assessment	Volume 3, Chapter, Section 8.10	n/a	
4.3	Landforms and Natural Landscapes	A concise introduction of the Landforms and Natural Landscapes assessment will be provided for this IC, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.1, Section 9.2, Section 9.3	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the assessment.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.3.2	n/a	
	Information Sources	The Application will provide a list of the information sources used in the assessment.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.3.1	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will identify that Landforms and Natural Landscapes is an IC that may be affected by the Project, creating an effect pathway to selected receptor VCs. The Application will also describe the measurement indicators used to comprehensively evaluate the Project induced potential changes to this IC, including:	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.3.3	n/a	
		• surficial geology and terrain distribution measured through terrain type, slope, and aspect;	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.3.3	n/a	
		• soil quantity and distribution measured through depth and distribution of soil types;	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.3.3	n/a	
		• soil quality measured through concentrations of metals and non-metal constituents in soil and soil type and general characteristics and properties of soil;	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.3.3, Section 9.4.4	n/a	
		• changes to intensity and frequency of snow avalanches;	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4.4	n/a	
		• channel morphology lateral and vertical stability (i.e., bank erosion and scour).	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4.4	n/a	
		The Application will provide an analysis of regional seismicity and earthquake potential based on data generated by the Geological Survey of Canada (2015 Edition for the National Building Code published by Natural Resources Canada). Seismic data will be incorporated into designs for the tailings storage facilities and other structures.	Tailings and Water Management Design Report	n/a	Volume 7, Appendix 1-H, Section 4.5	
		The Application will provide information on seismic design parameters for the Project and the earthquake hazard classification. Further, the overall potential of liquefaction induced settlements and lateral spread will be assessed based on the seismicity of the study area and soil and groundwater conditions.	Tailings and Water Management Design Report	n/a	Volume 7, Appendix 1-H, Section 4.5, Section 6.2.1; Volume 8, Appendix 23-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will provide a terrain stability (geohazards) analysis and geohazard risk assessment for the property at a scale of 1:5,000 in the infrastructure area and 1:20,000 in the Bitter Creek study area, including the potential for landslides, avalanches, and debris floods. Information generated from the terrain stability analyses will be utilized in assessing the location and design of structures such as the access road, tailings storage facility, plant, buildings, etc. along with mitigation plans. Further, the overall potential of landslides triggered by seismic events will be addressed and incorporated into design.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4.4, Section 9.5.4, Section 9.5.6	Volume 8, Appendix 9-A Volume 8, Appendix 9-B Volume 8, Appendix 9-C	
4.3.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable to the IC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.3.4	n/a	
4.3.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.3.4.4	n/a	
		The Application will describe the specific methods and standards used to collect baseline Landforms and Natural Landscapes data required to support the assessment, including the location of sampling or survey points and the parameters sampled or analyzed. Applicable criteria used to characterize existing conditions will also be summarized. The methods section will identify the QA/QC and data management tools used for baseline data collection and compilation, and will include:	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4.3.1, 9.4.3.2.2	Volume 8, Appendix 9-A Volume 8, Appendix 9-B	
		• surficial geology and terrain distribution, including consideration of: o surficial geology units and distribution; o site and terrain information including slope gradient, elevation, and aspect	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4	Volume 8, Appendix 9-A Volume 8, Appendix 9-B	
		• soil quality, including consideration of: o major soil types; o soil moisture and nutrient regimes; and o chemical concentration of metals and non-metals in soil.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4 .1.2, 9.4.3.2.3	Volume 8, Appendix 9-A Volume 8, Appendix 9-B	
		• soil quantity and distribution, including surface soils erosion potential;	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4.4	Volume 8, Appendix 9-A Volume 8, Appendix 9-B	
		• intensity and frequency of snow avalanches;	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4.4	Volume 8, Appendix 9-A Volume 8, Appendix 9-B	
		• background rates of sedimentation of waterbodies; and	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4	Volume 8, Appendix 9-A Volume 8, Appendix 9-B	
		• channel morphology lateral and vertical stability (i.e., bank erosion and scour).	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.4	Volume 8, Appendix 9-A Volume 8, Appendix 9-B	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
4.3.3	Potential Effects	The Application will identify potential adverse effects to the IC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.5.3	n/a	
		The Application will summarize the anticipated interactions between the proposed Project and the IC being assessed within the LSA.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.5.2	n/a	
4.3.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the IC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section of the Application will be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.6, Section 9.7.1.4	n/a	
4.3.5	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.7	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood and predictive confidence, in accordance with Section 3.7 (Likelihood) and 3.9 (Confidence and Risk) of the AIR.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.7	n/a	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.7	n/a	
		The Application will present changes in measurement indicators and predicted incremental residual effects of the Project. The assessment will include consideration of:	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.7.2	n/a	
		• Terrain Stability and Geohazards;	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.7.2	n/a	
		• Soil Quantity and Quality.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.7.2	n/a	
4.3.6	Cumulative Effects	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.8.1, Section 9.8.2, Section 9.8.3, Section 9.8.4	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 Conducting a Cumulative Effects Assessment of this AIR;	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.8.	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.8.6, Section 9.9	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood and predictive confidence, in accordance with Section 3.7 (Likelihood) and 3.9 (Confidence and Risk) of the AIR.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.8.6, Section 9.9	n/a	
4.3.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.9	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for Landforms and Natural Landscapes.	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.9, Section 9.10	n/a	
4.3.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects for Landforms and Natural Landscapes. The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their	Landforms and Natural Landscapes Effects Assessment	Volume 3, Chapter 9, Section 9.10	n/a	
4.4	Hydrogeology	A concise introduction of the Hydrogeological assessment will be provided for this IC, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.1	n/a	
		The Hydrogeology assessment will be informed by the Hydrogeology Report, which will be appended to the Application. Specifically, the report will include conceptual models of the groundwater system at the TMF location and the mine site, details on the model assumptions and uncertainties, and the results of sensitivity analyses.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.1	Volume 8, Appendix 10A Volume 8, Appendix 10B	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the Hydrogeological assessment.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.3.2	n/a	
	Information Sources	The Application will provide the information sources used in the assessment, including those for local and regional climate data and local and regional flow data.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.3.1	Volume 8, Appendix 10A Volume 8, Appendix 10B	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will identify that Hydrogeology (or more specifically: groundwater flows and flow pathways) is an IC that may be affected by the Project, creating an effect pathway to selected receptor VCs. The Application will describe the measurement indicators used to comprehensively evaluate the potential changes to hydrogeology.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.3.3	n/a	
4.4.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the IC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.3.4	n/a	
4.4.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		The Application will describe the specific methods and standards used to collect baseline hydrogeology data required to support the assessment, including the location of wells, hydraulic tests, flow measurement, sampling, or survey points.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.3	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The geotechnical, geological, and construction details of the tested drillholes or wells will be provided.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.2	Volume 7, Appendix 1-A, Appendix 1-B, Appendix 1-D; Volume 8, Appendix 10-A, Appendix 10-B	
		The methods section will identify the QA/QC and data management tools used for baseline data collection and compilation.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.3	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		The Application will characterize existing conditions for Hydrogeology in the RSA and LSA, and will include:	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		• overview of background information including information from published geology and hydrogeology reports, orthophoto imagery, on-site photographs, and on-site field programs;	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.1	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		• a description of the geological and structural context as well as maps of the overburden and bedrock geology;	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.1	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		• summary of existing groundwater characteristics (e.g., hydrostratigraphic units, pressure head measurements, groundwater table(s), seasonal changes in groundwater flow and head, and flow directions). Historical pressure heads included discrete measurements from three geotechnical wells located in the Red Mountain cirque, 35 open exploration boreholes, and 11 piezometers completed in the area of the proposed tailings. In 2014 and 2016, flowing artesian open exploration holes were	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.4.1	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		• description of the hydraulic properties for the key hydrostratigraphic units based on the site measurements complemented by scientific literature.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.3.1, Section 10.4.4.1	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		• summary of the surface flow data for regional and local streams and the measured or estimated baseflow rates during low flow and high flow periods;	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.3.1	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		• characterization of the interactions between current surface waterbodies and the groundwater system (e.g., delineation and characterization of recharge and discharge, location map of the groundwater springs and seeps, estimation of the groundwater contribution to surface water flows).	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.4.1	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
4.4.3	Potential Effects	The Application will identify potential adverse effects to the IC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.3.2, Section 10.5.2	n/a	
		The Application will summarize the anticipated interactions between the proposed Project and the IC being assessed.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.5.2, Section 10.5.3	n/a	
		These interactions will be assessed using a hydrogeological model at the scale of the LSA and the water and load balance model. The hydrogeological model will be calibrated to the available local and regional pressure head, climate data, and stream flow measurements. The sensitivity of the model to hydraulic parameters and to recharge will be tested. Results will be provided in the Hydrogeology Report included as an appendix to the Application.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.4.2.5, 10.7.2.4	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		The Application will also identify and evaluate the Project works and activities that have the potential to result in changes to the measurement indicators identified for the Hydrogeological assessment. All primary effects pathways will be carried forward for further evaluation of the residual effects.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.5.2, Section 10.5.3	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		Development and calibration of the numerical hydrogeological model will follow the Guidelines for Groundwater Modelling to Assess Impacts of Proposed Natural Resource Development Activities, prepared by BC Ministry of Environment (2012). Detail on the model development and calibration will be provided in the Application.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.2.4	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
4.4.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the IC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.6	n/a	
4.4.5	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.2.1	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood and predictive confidence, in accordance with Section 3.7 (Likelihood) and 3.9 (Confidence and Risk) of the AIR.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.2.2, Section 10.7.2.3, Section 10.7.4	n/a	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.6.1, Section 10.7.4	Volume 8, Appendix 10-A	
		The Application will present changes in measurement indicators and predicted incremental effects of the Project. The assessment will include consideration of:	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.3, Section 10.7.4	n/a	
		• groundwater use for Project activities;	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.3, Section 10.7.4	n/a	
		• changes to hydrogeology during operations and after reclamation;	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.3, Section 10.7.4	Volume 8, Appendix 10-A	
		• changes to groundwater flow regimes.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.3, Section 10.7.4	Volume 8, Appendix 10-A	
		Hydrogeology will be assessed at a number of assessment nodes in the RSA and LSA under low flow, mean flow, and high flow conditions. Assessment nodes will include locations in potentially affected systems by the proposed Project.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.3	Volume 8, Appendix 10-A; Volume 8, Appendix 14-C	
		Results from the effects analyses are used to describe the context, direction, magnitude, geographic (spatial) extent, duration, timing, reversibility, and likelihood of the predicted changes to the primary measurement indicators for Hydrogeology (Section 3.6), with clear indication of the potential for local versus regional scale effects.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7	n/a	
4.4.6	Cumulative Effects	The Application will:	Hydrogeology	Volume 3, Chapter 10, Section 10.8	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Hydrogeology	Volume 3, Chapter 10, Section 10.8.3, Section 10.8.5	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Hydrogeology	Volume 3, Chapter 10, Section 10.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Hydrogeology	Volume 3, Chapter 10, Section 10.8.4	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood and predictive confidence, in accordance with Section 3.7 (Likelihood) and 3.9 (Confidence and Risk) of the AIR.	Hydrogeology	Volume 3, Chapter 10, Section 10.8.8	n/a	
4.4.7	Follow-up Strategy	The Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Hydrogeology	Volume 3, Chapter 10, Section 10.9	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for the hydrogeological regime. A groundwater monitoring program will be established irrespective of the predicted results.	Hydrogeology Groundwater Monitoring Plan	Volume 3, Chapter 10, Section 10.9 Volume 5, Chapter 29, Section 29.18	n/a	
4.4.8	Conclusion	The Application will provide a consolidated summary of the predicted residual [effects] for Hydrogeology. The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their assessments.	Hydrogeology	Volume 3, Chapter 10, Section 10.10	n/a	
4.5	Groundwater Quality	A concise introduction of the Groundwater Quality assessment will be provided for this IC, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.1	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the groundwater quality assessment.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.3, Section 11.3.2	n/a	
	Information Sources	The Application will list the information sources used in the assessment, including relevant environmental reports and data. Specifically, this section will cross-reference Section in the Application where Hydrology, Hydrogeology, and Water Quality predictions are reported.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.3, Section 11.3.1 Volume 3, Chapter 11, Section 11.4, Section 11.4.3	Volume 8, Appendix 14-A Volume 8, Appendix 14-B	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will identify that Groundwater Quality is an IC that may be affected by the Project, creating an effect pathway to selected receptor VCs.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.1	n/a	
		The Application will describe the measurement indicators used to comprehensively evaluate the Project induced potential changes to Groundwater Quality, and will include the suite of parameters listed in Section 6.4 of the Water and Air Baseline Monitoring Guidance Document for Mine IDMs and Operators (BC MOE 2016).	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.3, Section 11.3.3	n/a	
		The Application will present changes in measurement indicators and potential effects of the Project on Groundwater Quality for key time-periods during the construction, operations, and closure stages of the Project.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.3, Section 11.3.3	n/a	
		The assessment will include consideration of:	n/a	n/a	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• groundwater use for Project activities;	n/a	Volume 3, Chapter 11, Section 11.5.2	n/a	
		• changes to Groundwater Quality during operations and after reclamation;	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.3, Section 11.3.3, Section 11.7.2.4	Volume 8, Appendix 14-B	
		• changes to groundwater flow regimes.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.4.4.3.2, Section 10.4.4.3.4	Volume 8, Appendix 10-A	
		Groundwater Quality will be assessed at a number of assessment nodes in the RSA and LSA under low flow, mean flow, and high flow conditions. Assessment nodes will include locations in potentially affected systems that may be affected by the proposed Project.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.3, Section 11.3.4 Volume 3, Chapter 11, Section 11.7, Section 11.7.2	Volume 8, Appendix 14-B	
4.5.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the IC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.3, Section 11.3.4	n/a	
4.5.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.4, Section 11.4.1 , Section 11.4.4	Volume 8, Appendix 14-A	
		The Application will describe the specific methods and standards used to collect baseline data conditions related to Groundwater Quality required to support the assessment, including the location of sampling or survey points and parameters sampled or analyzed.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.4, Section 11.4.2 and Section 11.4.3	Volume 8, Appendix 14-A	
		The methods section will identify the sampling protocols, QA/QC, and data management tools used for baseline data collection and compilation. The baseline data will include the baseline Groundwater Quality collected to date from piezometers, artesian exploration drill holes, surface seeps or springs, and underground adits.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.4, Section 11.4.2, Section 11.4.3	Volume 8, Appendix 14-A	
		Baseline concentrations that exceed provincial and federal guidelines will be noted.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.4, Section 11.4.2, Section 11.4.3	Volume 8, Appendix 14-A	
		Baseline data that will be considered for the assessment includes: • 22 groundwater samples collected in the Red Mountain cirque by Klohn-Crippen in July, September, and October 1993 at seeps, springs, flowing artesian boreholes, and in the underground adit (main portal decline). • Samples of the ponded water in the decline, collected in 1996 and 1997, and between 2003 to 2006. • Groundwater samples collected between 2014 and 2016 from seeps, springs, flowing artesian borehole in the Red Mountain Cirque, from the underground adit, and from the proposed tailing area. • Groundwater samples collected at Bromley Humps, concurrent with the geotechnical drilling program in 2016.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.4, Section 11.4.2, Section 11.4.3	Volume 8, Appendix 14-A	
4.5.3	Potential Effects	The Application will identify potential adverse effects to the IC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.5	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will summarize the anticipated interactions between the proposed Project and the IC being assessed, including interactions between Groundwater Quality and the underground mine workings, waste rock and ore stockpiles, and tailings.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.5, Section 11.5.2	n/a	
		The Application will also identify and evaluate the Project works and activities that have the potential to result in changes to the measurement indicators identified for the Groundwater Quality assessment. All primary effects pathways will be carried forward for further evaluation of the residual effects.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.5, Section 11.5.3	n/a	
		These interactions will be assessed using a hydrogeology model at the scale of the LSA, and the water and load balance model. The hydrogeology model will be calibrated to the available local pressure head, climate data, and stream flow measurements. Development and calibration of the numerical hydrogeological model will follow the Guidelines for Groundwater Modelling to Assess Impacts of Proposed Natural Resource Development Activities, prepared by BC Ministry of Environment (2012). Detail on the model development and calibration will be provided in the Application.	Hydrogeology Effects Assessment	Volume 3, Chapter 10, Section 10.7.2.4	Volume 8, Appendix 10-A Volume 8, Appendix 10-B	
		The Application will also identify and evaluate the Project works and activities that have the potential to result in changes to the measurement indicators identified for the Groundwater Quality assessment. All primary effects pathways will be carried forward for further evaluation of the residual effects.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.5, Section 11.5.3	n/a	
4.5.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the IC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.6	n/a	
4.5.5	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.6, Section 11.7	Volume 8, Appendix 14-B	
		Where an adverse residual effect is identified, the Application will also describe the likelihood and predictive confidence, in accordance with Section 3.7 (Likelihood) and 3.9 (Confidence and Risk) of the AIR.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.7, Section 11.7.2, Section 11.7.4	n/a	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.4, Section 11.4.3.2 Volume 3, Chapter 11, Section 11.7, Section 11.7.4	Volume 8, Appendix 14-A Volume 8, Appendix 14-B	
		The Application will present changes in measurement indicators and predicted incremental effects of the Project.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.7, Section 11.7.3, Section 11.7.4	n/a	
4.5.6	Cumulative Effects	The Application will:	n/a	n/a	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.8, Section 11.8.1, Section 11.8.2	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.8, Section 11.8.3	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.8, Section 11.8.3.3	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood and predictive confidence, in accordance with Section 3.7 (Likelihood) and 3.9 (Confidence and Risk) of the AIR.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.8, Section 11.8.3.5	n/a	
4.5.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.9	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for Groundwater Quality. Monitoring program objectives will include assessment of the effectiveness of planned mitigation during the operational and closure stages and will be integrated with existing or planned monitoring programs.	Groundwater Quality Effects Assessment Management Plans	Volume 3, Chapter 11, Section 11.9 Volume 5, Chapter 29, Section 29.18	n/a	
4.5.8	Conclusion	The Application will provide a consolidated summary of the predicted residual for Groundwater Quality.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.10	n/a	
		The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their assessments.	Groundwater Quality Effects Assessment	Volume 3, Chapter 11, Section 11.1	n/a	
4.6	Hydrology	A concise introduction of the Hydrology assessment will be provided for this VC, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Hydrology Effects Assessment	Volume 3, Chapter 12, 12.1	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the Hydrology assessment.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.3, Section 12.3.2	Volume 8, Appendix 12-A	
	Information Sources	The Application will provide the information sources used in the assessment, including those for local and regional climate data and local and regional flow data.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.3, Section 12.3.1 Volume 3, Chapter 12, Section 12.4, Section 12.4.3.1	Volume 8, Appendix 12-A	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will identify that Hydrology is a VC that may be affected by the Project, in addition to Hydrology creating an effect pathway to other VCs.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.1	n/a	
		The Application will describe the measurement indicators, intermediate components, and assessment endpoints that will be used to comprehensively evaluate the potential changes Hydrology that may result from the Project.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.3, Section 12.3.3	n/a	
4.6.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable to the VC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.1 Volume 3, Chapter 12, Section 12.3.4	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
4.6.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4, Section 12.4.1 and Section 12.4.4	Volume 8, Appendix 12-A	
		Site specific baseline hydrological studies were completed at the site in the mid-1990s in support of an earlier environmental assessment and were re-initiated in 2014. The historical studies included collection of climate data (1993 to 1996), stream gauge data (1993 and 1994), and snow course surveys. Where this data has been adequately documented, it will be incorporated into the Application. The methodology for this data collection will be outlined in the Application to make it possible to assess the quality and confirm its reliability.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4.3.1, Section 12.4.3.2.1	Volume 8, Appendix 12-A	
		Baseline climate and hydrology data collection activities were reinitiated in June 2014 following recommendations in the "Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators" (MOE 2012). The program included installation of three hydrometric monitoring stations and installation of a climate station on a tower located within the Goldslide Creek watershed. The methodology for the baseline data collection will be outlined in the Application.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.2, Section 12.4.3	Volume 8, Appendix 12-A	
		Baseflow and low flow conditions will be estimated using specific statistical methodologies and will be compared with the available local winter low flow measurements. Peak flows will be estimated based on statistical methodologies used on similar regional watersheds and local watersheds. The Application will include rating curves and measured information, total watershed yield, hydrologic statistics, and hydrologic trends (if required). The description of existing conditions will also consider hydrologic variability (i.e., range of annual and monthly flows), not just mean values.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4.3, Section 12.4.4.2	n/a	
		The description of existing conditions will include the inflow design floods or peak flows, which will be estimated based on regional/local gauge information. Details on these calculations, including supporting information for the various water management assumptions, will be presented.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4.3, Section 12.4.4.2	n/a	
		The Application will further describe the specific methods and standards used to collect baseline hydrology data, including the location of sampling or survey points and parameters sampled or analyzed, QA/QC and data management tools used for baseline data collection and compilation, and the results of the baseline data and regional analysis, including:	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4, Section 12.4.3.2	n/a	
		• summary of key climate station information in the LSA; and	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4, Section 12.4.3.2	n/a	
		• streamflow and sediment yield statistics based on publically available hydrometric data (i.e., government sources) and spot and continuous stream flow measurements collected by IDM.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4, Section 12.4.3.2	Volume 8, Appendix 14-A	
		Additional information will be provided for:	n/a	n/a	n/a	
		• climate data from regional and local climate stations;	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4.4.1	Volume 8, Appendix 12-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• monthly flow data for regional and local streams.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.4.4.2	Volume 8, Appendix 12-A	
4.6.3	Potential Effects	The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.5	n/a	
		The Application will summarize the anticipated interactions between the proposed Project and this VC being assessed within the LSA.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.5, Section 12.5.2	n/a	
4.6.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the VC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application will be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.6, Section 12.6.1, Section 12.6.2, Section 12.6.3	n/a	
4.6.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.7, Section 12.7.3 Volume 3, Chapter 12, Section 12.7, Section 12.7.4	n/a	
		The Application will characterize the residual effects on surface water levels and rate of flow using the effects criteria outlined in Section 3.6 of the AIR.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.7, Section 12.7.3 Volume 3, Chapter 12, Section 12.7, Section 12.7.4	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Hydrology Effects Assessment	Volume 3, Chapter 12 Section 12.7, Section 12.7.2, Section 12.7.4	n/a	
		The analysis will include the assessment of predicted incremental effects of the Project. This will include consideration of: • potential changes to flows in the Goldslide Creek, Otter Creek, and Bitter Creek in the LSA; • disruptions to drainage in headwater areas and potential changes in basin sediment yield; and • consideration of the short- and long-term functionality of rock drains with respect to the hydrology in the aquatic LSA based on desktop analysis of available data.	Hydrology Effects Assessment	Volume 3, Chapter 12 Section 12.7, Section 12.7.3, Section 12.7.4	Volume 8, Appendix 14-C	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.6.3, Section 12.7, Section 12.7.2.2, Section 12.7.2.3, Section 12.7.2.4	n/a	
4.6.6	Cumulative Effects and	The Application will:	n/a	n/a	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
	their Significance	• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.8, Section 12.8.2	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.8, Section 12.8.3	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.8, Section 12.8.3.3	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.8, Section 12.8.3.5, Section 12.8.3.6	n/a	
4.6.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.9	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for Hydrology.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.9	n/a	
4.6.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects. The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their assessments.	Hydrology Effects Assessment	Volume 3, Chapter 12, Section 12.10	n/a	
4.7	Sediment Quality	A concise introduction of the Sediment Quality assessment will be provided for this VC, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.1	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the Sediment Quality assessment.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.3.2	n/a	
	Information Sources	The Application will list the information sources used in the assessment, including relevant environmental reports and data.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.3.1	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will identify that Sediment Quality is a VC that may be affected by the Project.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.3.3	n/a	
		The Application will describe the measurement indicators, ICs, and assessment endpoints that will be used to comprehensively evaluate the potential changes to Sediment Quality that may result from the Project.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.3.3	n/a	
4.7.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the VC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.3.4	n/a	
4.7.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.3.1, Section 14.4.1	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will describe the specific methods and standards used to collect baseline sediment quality data required to support the assessment, including the location of sampling or survey points, parameters analyzed, and variability in replicate samples.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.4.3	n/a	
		The methods section will identify the QA/QC and data management tools used for baseline data collection and compilation and will include: • an overview of background information, including sediment quality data compiled from the review of existing information; and • sediment quality evaluation included a comparison of sediment chemistry data to BC MOE Sediment Quality guidelines (BC MOE 2013), CCME Sediment Quality guidelines (CCME 2007), and reference concentrations.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.4.3	n/a	
		Sediment quality sampling will continue through 2016 to address any data gaps, with baseline results included in the Application.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.4.4	n/a	
4.7.3	Potential Effects	The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.5	n/a	
		The Application will summarize the anticipated interactions between the proposed Project and the VC being assessed within the LSA.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.5.2	n/a	
		The Application will also identify and evaluate the Project works and activities that have the potential to result in changes to the measurement indicators identified for the Sediment Quality assessment. All primary effects pathways will be carried forward for further evaluation of the residual effects.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.5.3	n/a	
4.7.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the VC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.6	n/a	
4.7.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects). Policies, guidelines, and standards considered in the analysis will be described.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.7.2.1	n/a	
		Policies, guidelines, and standards considered in the analysis will be described.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.7.3.1.1	n/a	
	Measurement Indicators	The Application will present changes in measurement indicators and potential effects of the Project on Sediment Quality during the construction, operations, and closure stages of the Project.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.7.3.1.1	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.7.3.1.3	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.7.3.1.5	n/a	
		Sediment quality concentrations associated with the Application and cumulative effects assessment will be presented in comparison to reference concentrations, baseline conditions, and relevant criteria, i.e., CCME's (2007) Interim Sediment Quality Guidelines (ISQG) and the Probable Effects Level.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.7.3.1.1	n/a	
		The context, direction, magnitude, geographic (spatial) extent, duration, timing, reversibility, and likelihood of the predicted changes to the measurement indicators will be described as outlined in Section 3.6.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.7.4	n/a	
4.7.6	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.8.2	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.8.3	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.8.4, Section 14.8.4.2	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.8.7	n/a	
4.7.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.9	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for Sediment Quality. Monitoring program objectives will include assessment of the effectiveness of planned mitigation during the operational, and closure stages and will be integrated with existing or planned monitoring programs.	Sediment Quality Effects Assessment Management Plans	Volume 3, Chapter 14, Section 14.9 Volume 5, Chapter 30, Section 30.5.1		
4.7.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects for Sediment Quality. The Application will also indicate the VCs to which the results of the Sediment Quality assessment have been forwarded for incorporation in their	Sediment Quality Effects Assessment	Volume 3, Chapter 14, Section 14.10	n/a	
4.8	Surface Water Quality	A concise introduction of the Surface Water Quality assessment will be provided, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Surface Water Quality	Volume 3, Chapter 13, Section 13.1	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Surface Water Quality assessment will be informed by the Water Quality Model Report that will be appended to the Application. The report will include: • the methods for the development of the geochemical source terms and the water quality predictions; • detailed predictions of ML/ARD potential, including time to ML/ARD onset, supported by relevant laboratory and in-situ testing of all rock units which are proposed to be disturbed by the mining activities ; and • time to ML/ARD onset for all PAG materials.	Surface Water Quality	Volume 3, Chapter 13, Section 13.1, Section 13.7.3.1.1	Volume 8, Appendix 14-C	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the Surface Water Quality assessment.	Surface Water Quality	Volume 3, Chapter 13, Section 13.3.2	n/a	
	Information Sources	This Application will provide the information sources used in the assessment, including relevant environmental reports and data on hydrology (flows), baseline groundwater quality, and water quality associated with each of the mining components (contact water quality or source terms).	Surface Water Quality	Volume 3, Chapter 13, Section 13.3.1	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will identify that Surface Water Quality is a VC that may be affected by the Project.	Surface Water Quality	Volume 3, Chapter 13, Section 13.3.3	n/a	
		The Application will describe the measurement indicators, intermediate components, and assessment endpoints that will be used to comprehensively evaluate the potential changes to Surface Water Quality that may result from the Project (Table 24 in the AIR).	Surface Water Quality	Volume 3, Chapter 13, Section 13.3.3	n/a	
		When considered as a pathway component, the results of the Surface Water Quality assessment will be incorporated into the assessments for the following VCs: • Human Health; • Fish VCs; • Fish Habitat; • Wildlife VCs; and • Vegetation and Ecosystem VCs.	Surface Water Quality	Volume 3, Chapter 13, Section 13.3.3	n/a	
4.8.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the VC, including maps, in a manner consistent with 3.2 of the AIR (Assessment Boundaries).	Surface Water Quality	Volume 3, Chapter 13, Section 13.3.4	n/a	
4.8.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.3	n/a	
		The historical dataset will be used as a comparison for the data collected by the ongoing surface water quality baseline monitoring program, which was re-established in summer 2014.	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.3.5	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		Surface water samples will be analyzed for the following parameters: • general chemistry (colour, conductivity, hardness, pH, TSS, TDS, temperature, and turbidity); • anions and nutrients; • total and dissolved organic carbon; and • total and dissolved metals.	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.3.4	n/a	
		The Application will describe the methods and standards used for the baseline data collection program, including information on QA/QC procedures, data management tools, and calibration with regional or analogue data as appropriate.	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.3	n/a	
		The surface water quality baseline report will provide the following information:	n/a	n/a	n/a	
		• an overview of background information including water quality data compiled from a review of existing information;	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.1, Section 13.4.2, Section 13.4.3, Section 13.4.4	Volume 8, Appendix 14-C	
		• a summary of water quality data from the Bitter Creek and Bear River watersheds, evaluated by comparing concentrations to water quality guidelines for the protection of aquatic life (BC MOE 2013) and to reference concentrations;	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.4	Volume 8, Appendix 14-A Volume 8, Appendix 14-C	
		• a characterization of watercourses and interactions with shallow hydrogeology (e.g., recharge and discharge characteristics, groundwater seeps, percent contribution to surface water flows);	Hydrogeology	Volume 3, Chapter 10, Section 10.4.4.2.2, Section 10.4.4.2.4	Volume 8, Appendix 14-A Volume 8, Appendix 14-C	
		• a baseline data overview, including observations from historical data and available data from the surface water monitoring program.	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.4	Volume 8, Appendix 14-A Volume 8, Appendix 14-C	
		Baseline concentrations that exceed provincial and federal guidelines will be noted.	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.4	Volume 8, Appendix 14-A Volume 8, Appendix 14-C	
		Specifically, geochemical characterization work will be completed in accordance with the Policy for Metal Leaching and Acid Rock Drainage at Mine sites in British Columbia (MEM, 1998) and the Prediction Manual for Drainage Chemistry from Sephardic Geologic Materials (Price, 2009). The Application will include the report as an appendix to the Application. Raw data will be included within the report.	Surface Water Quality	Volume 3, Chapter 13, Section 13.4.4, Section 13.5.3.1	Volume 8, Appendix 14-A Volume 8, Appendix 14-C	
4.8.3	Potential Effects	The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Surface Water Quality	Volume 3, Chapter 13, Section 13.5.2	n/a	
		The Application will summarize the anticipated interactions between the proposed Project and the VC being assessed. This includes water quality interactions with the underground mine workings, waste rock storage areas, ore stockpiles, and the TMF.	Surface Water Quality	Volume 3, Chapter 13, Section 13.5.2	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
4.8.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the VC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Surface Water Quality	Volume 3, Chapter 13, Section 13.6	n/a	
		The Application management plans will address the ability of the current system to accommodate changes to flow regimes and runoff resulting from the Project and, where necessary, document the need for upgrades.	Surface Water Quality	Volume 3, Chapter 13, Section 13.6.1	n/a	
4.8.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Surface Water Quality	Volume 3, Chapter 13, Sections 13.7.3.1.2 and 13.7.3.2.2	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Surface Water Quality	Volume 3, Chapter 13, Sections 13.7.3.1.3 and 13.7.3.2.3 (Likelihood), Sections 13.7.3.1.4 and 13.7.3.2.4 (Significance)	n/a	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Surface Water Quality	Volume 3, Chapter 13, Sections 13.7.3.1.5 and 13.7.3.2.5	n/a	
		The assessment will present changes in measurement indicators and potential effects of the Project on Surface Water Quality during the construction, operations, and closure stages of the Project.	Surface Water Quality	Volume 3, Chapter 14, Section 13.7.3	n/a	
		The assessment will include consideration of: • geochemical release of metals, major ions, and nutrients from waste rock storage areas, stockpiles and tailings; • predicted surface water quality for water management facilities and any discharge to receiving streams; • predicted groundwater seepage including seepage of mine contact water that is predicted to report to local surface waters; • changes to the flow regime of Goldslide Creek, Otter Creek, and Bitter Creek; and • surface runoff from areas disturbed by mining.	Surface Water Quality	Volume 3, Chapter 13, Section 13.5.3, Section 13.6.1.1, Section 13.7.3.1	n/a	
		Surface Water Quality will be assessed at a number of assessment nodes in the RSA and LSA under low flow, mean flow, and high flow conditions. Assessment nodes will include locations in potentially affected watercourses.	Surface Water Quality	Volume 3, Chapter 13, Section 13.7.3.1.1	n/a	
		Surface water quality concentrations will be presented in comparison to reference concentrations, baseline concentrations, and relevant criteria including compliance limits and site performance objectives, guidelines and/or standards for the protection of aquatic, human, and terrestrial wildlife health, recreational, and aesthetic uses. Thus, the constituents that have the potential to be released by the Project will be identified.	Surface Water Quality	Volume 3, Chapter 13, Section 13.7.3.1.1	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will include information/discussion sufficient to conclude that the results of the effects assessment are unlikely to be changed as a result of changes in flow associated with climate change.	Surface Water Quality	Volume 3, Chapter 12, Section 12.4.4.3	Volume 8, Appendix 14-C, Section 6.1	
		Results will be incorporated into the assessments for Fish, Fish Habitat, Wildlife, and Human Health. Contaminants of potential concern forwarded for further assessment will be clearly identified.	Surface Water Quality	Volume 3, Chapter 13, Section 13.3.3, Section 13.7.3.1; Chapter 18, Section 18.7.3.2	n/a	
	Water and Load Balance Report	The Application will include a Water and Load Balance Report that summarizes how the water quality predictions are developed and incorporated into the Surface Water Quality assessment. These predictions will also be used in assessments conducted for the Wildlife, Fish, and Human Health VCs. A monthly water and load balance will be modelled to predict water quality at a number of nodes in the receiving environment, and that the model will extend throughout the mine life.	Surface Water Quality	Volume 3, Chapter 13, Section 13.5.3.2, Section 13.7.2.2.1, Section 13.7.3.1.1	Volume 8, Appendix 14-C	
		Key inputs to the water and load balance will include: • surface water hydrology; • groundwater flow estimates; • water quality estimates or source terms for the underground mine; • waste rock and ore stockpiles; • tailings storage facility; and • tailings process water and undisturbed areas of the catchments.	Surface Water Quality	Volume 3, Chapter 13, Section 13.5.3.2, Section 13.7.2.2.1, Section 13.7.3.1.1	Volume 8, Appendix 14-C	
		The Water and Load Balance Report will be calibrated to the baseline hydrology data, and the calibration/validation information will be provided with the Application. The model will also incorporate hydrologic variability, including consideration of wet, average, and dry conditions.	Surface Water Quality	Volume 3, Chapter 13, Section 13.5.3.2, Section 13.7.2.2.1, Section 13.7.3.1.1	Volume 8, Appendix 14-C	
		The following results will be presented to support the analysis of potential effects: • the predicted concentration of water quality constituents, with and without mitigations; • temporal snapshots and assessment nodes where changes in water quality is attributed to the Project; and • time and location where the maximum concentrations of constituents are predicted to occur.	Surface Water Quality	Volume 3, Chapter 13, Section 13.5.3.2, Section 13.7.2.2.1, Section 13.7.3.1.1	Volume 8, Appendix 14-C	
		The Application will describe further mitigation, if required, in relevant management plans (e.g., ML/ARD Management Plan), based on the results of the residual effects characterization.	Surface Water Quality	Volume 3, Chapter 13, Section 13.5.3.2, Section 13.7.2.2.1, Section 13.7.3.1.1	Volume 8, Appendix 14-C	
4.8.6	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Surface Water Quality	Volume 3, Chapter 13, Section 13.8.2, Section 13.8.3	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Surface Water Quality	Volume 3, Chapter 13, Section 13.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures of this AIR);	Surface Water Quality	Volume 3, Chapter 13, Section 13.8.4.2	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Surface Water Quality	Volume 3, Chapter 13, Section 13.8.7	n/a	
4.8.7	Follow-up Strategy	The Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Surface Water Quality	Volume 3, Chapter 13, Section 13.9	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for Surface Water Quality. Monitoring program objectives will include assessment of the effectiveness of planned mitigation during the operational and closure stages of the proposed Project and will be integrated with existing or planned monitoring programs. Reference to regional management plans (e.g., Aquatic Effects Monitoring Program) and how these plans will influence the development of site-specific management plans, will be made.	Surface Water Quality Monitoring and Follow-up	Volume 3, Chapter 13, Section 13.9 Volume 5, Chapter 30, Section 30.5.2		
4.8.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects for Surface Water Quality. The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their assessments.	Surface Water Quality	Volume 3, Chapter 13, Section 13.10		
4.9	Vegetation and Ecosystems	A concise introduction of Vegetation and Ecosystems will be provided, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines. The regulatory framework section will outline the applicable legislation, guidelines, and best practices within BC and Canada relevant to the Project and to the VC	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.1	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation will be incorporated into the Vegetation and Ecosystems assessment.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.1, Section 15.2, Section 15.3	n/a	
	Information Sources	The Application will provide the information sources used in the assessment.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.3.1	n/a	
	Valued Components, Intermediate Components, and Measurement Indicators	The Application will identify that Vegetation and Ecosystems and its subcomponents are VCs that may be affected by the Project.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.3.3	n/a	
		The Application will describe the measurement indicators, ICs, and assessment endpoints that will be used to comprehensively evaluate the potential changes that may result from the Project (Table 26 in the AIR).	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.3.3	n/a	
4.9.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the VC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.3.4	n/a	
4.9.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.4	n/a	
		The Application will describe existing regional and local vegetation and ecosystem conditions and will include data collection methods, sampling time frames, and summaries of results.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.4.3 , Section 15.4.4	Volume 8, Appendix 9-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		Predictive Ecosystem Mapping (PEM) will be carried out in the RSA.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.4.3.2.1	Volume 8, Appendix 9-A	
		An analysis of vegetation tissue quality will be assessed in relation to potential Project-related changes to ecosystem function, including an evaluation of residual effects (if merited) and determination of significance.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 9, Sections 9.5.3.3.2, 9.5.5.2.3, Table 9.5-6	Volume 8, Appendix 9-A, Section 5.6 and Appendix H	
		The Application will describe available traditional ecological or local knowledge related to current vegetation and ecosystem conditions. The Application will refer to any relevant documents produced for publicly-available studies for other projects in northwest BC to support the baseline estimates applied.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.4	n/a	
		The Application will provide a description of the Regulatory and Policy Framework surrounding the management of vegetation and ecosystems, referencing relevant legislation, and a list of applicable provincial and regional best management practices and guidance documents to be implemented, which include: • Mines Act; • Forest and Range Practices Act; • Species at Risk Act; • BC Conservation Data Centre; • Canadian Biodiversity Strategy; • BC Weed Control Act; • BC Wildlife Act; • Environmental Management Act; • The Fisheries Act; • The Fish Protection Act and associated amendments to the provincial Water Act; and • North West Invasive Plant Council.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.2, Section 15.6.1.3	Volume 8, Appendix 9-A	
4.9.3	Potential Effects	The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.3.2, Section 15.5	n/a	
		The Application will summarize the anticipated interactions between the proposed Project and the VC being assessed within the LSA. Key mitigations to be employed to minimize residual adverse effects will be identified. The status and sensitivity of the VCs to Project related effects will be considered in the evaluation of effects.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.5	n/a	
4.9.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the VC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.6	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will evaluate the environmental design and mitigation measures that can be incorporated into the Project to mitigate adverse effects. A broad range of potential mitigations for Vegetation and Ecosystem VCs will be considered, including experience from previous mining projects and environmental assessments. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.6.1.1 , Section 15.6.1.2	n/a	
4.9.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.7	n/a	
		Where an adverse residual effect is identified, the Application will present the results of the assessment of potential effects of the Project on Vegetation and Ecosystem VCs.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.7	n/a	
		The Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.7	n/a	
		The assessment will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence. Where relevant, uncertainty associated with the effectiveness of the proposed measures will be noted.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.7.2.4; Volume 5, Chapter 29, Section 29.24	n/a	
		The assessment will include quantitative analyses of predicted changes (e.g., predicted changes in the number, proportion, or areal extent of Vegetation and Ecosystem VCs) in the habitat availability, habitat distribution, plant abundance, and plant occurrence (rare plants) of Vegetation and Ecosystem VCs from pre-Project through all stages of the Project. Qualitative analyses may be conducted in some cases where a quantitative approach is not considered appropriate.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.7.3	n/a	
		The importance of changes in measurement indicators with respect to the assessment endpoint will be described within context of the known or inferred ability of each Vegetation and Ecosystem VC to accommodate disturbance. The ability of a VC to accommodate disturbance will be evaluated using the concepts of ecological adaptability and resilience.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.7.3.2.4, Section 15.7.3.3.4, Section 15.7.3.4.4, Section 15.7.3.5.4	n/a	
4.9.6	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.8	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.8.5.2	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.8.6	n/a	
4.9.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.9	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for Vegetation and Ecosystem VCs and to track changes over the life of the Project. Reference to management plans being developed or implemented by IDM and/or by the province, where applicable, will be outlined.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.9	n/a	
4.9.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects and determination of significance for Vegetation and Ecosystem VCs.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.10	n/a	
		The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their assessments.	Vegetation and Ecosystems Effects Assessment	Volume 3, Chapter 15, Section 15.10.	n/a	
4.10	Wildlife	A concise introduction of the Wildlife assessment will be provided, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines (e.g., Vegetation and Ecosystems, Floodplain and Wetland Ecosystems, Surface Water Quality, and others).	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.1.	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation will be incorporated into the Wildlife assessment.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.2	Volume 8, Appendix 16-A	
	Information Sources	The Application will provide the information sources used in the assessment.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.1	Volume 8, Appendix 16-A	
	Valued Components, Intermediate Components, and Measurement Indicators	The Application will present the measurement indicators, assessment endpoints, and VCs to be used in the assessment of Project-related effects on Wildlife (Table 29 in the AIR). The rationale for selection of VCs and selection of indicators will be presented in the Application. Considerations for VC selection include: • species presence in the Project area; • potential interaction with the Project and potential for adverse Project effects; • regulatory requirements (e.g. species at risk); • Aboriginal interests and Treaty rights; • local or community concerns; and • scientific knowledge.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.3	n/a	
		Species at Risk are of particular importance. Where they have been identified as VCs or focal species, potential and residual effects will be assessed for each species separately.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.5.3, Section 16.7.2 to Section 16.7.13	n/a	First sentence from Row 11 of Wildlife Omissions added to existing row.

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		An assessment will be conducted for federal and provincially-listed species known or expected to occur within the RSA and where there is potential to interact with the Project.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.3, Section 16.7.3, Section 16.7.4, Section 16.7.6.X, Section 16.7.8, Section 16.7.10.1 , Section 16.7.10.2, Section 16.7.10.3, Section 16.7.13, Section 16.4.5.2.2, Section 16.4.5.2.3, Section 16.4.5.2.4, Section 16.4.5.3.1 , Section 16.4.5.3.2	n/a	
		A clear justification will be provided if a species at risk is not identified, surveyed, or assessed as part of the Application.	Assessment Methodology Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 6, Section 6.2.1 Volume 3, Chapter 16, Section 16.7.13	n/a	
		In addition, several species groups, including migratory birds, non-migratory birds, furbearers, and bats will be addressed. In these cases, potential effects will be assessed at the species level, but residual effects will be assessed at the group level.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.5.3, Section 16.7.2, Section 16.7.3, Section 16.7.4, Section 16.7.5 , Section 16.7.6, Section 16.7.7, Section 16.7.8, Section 16.7.9, Section 16.7.10, Section 16.7.11, Section 16.7.12, Section, Section 16.7.13	n/a	
		Significance thresholds for the interpretation of measurement indicators will be provided in the Application. Significance thresholds will include both quantitative and qualitative values. The significance of Project effects on measurement indicators will be interpreted using standard residual effects assessment criteria, i.e., the context, magnitude, extent, duration, reversibility, and frequency. If there are no significant Project effects to wildlife measurement indicators (i.e. habitat availability, habitat distribution, and mortality risk), the effects assessment supports that ecological conditions are capable maintaining wildlife populations relative to existing baseline.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16: Section 16.7.3, Section 16.7.4, Section 16.7.5, Section 16.7.6, Section 16.7.7, Section 16.7.8, Section 16.7.9, Section 16.7.10, Section 16.7.11, Section 16.7.12, Section 16.7.13	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		Measurement indicators will be specific for each species under these three categories: • Habitat Availability: changes to the amount or quality of habitat available; habitat availability could change as a result of habitat loss, habitat alteration, or sensory disturbance; • Habitat Distribution: changes to the distribution of habitat as a results of Project activities that could disrupt wildlife movements and habitat connectivity, making otherwise suitable habitats unavailable or unusable; and • Mortality Risk: changes to animal mortality through direct and indirect effects, including: collisions with transmission lines, buildings, or vehicles, disruption or removal of nests, exposure to contaminants, human-wildlife conflicts resulting from attractants, increased access and accessibility, and increased predation.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.7.3.1 to Section 16.7.3.3, Section 16.7.4.1 , Section 16.7.4.2, Section 16.7.5.1, Section 16.7.5.2, Section 16.7.6.1 , Section 16.7.7.1 , Section 16.7.7.2 , Section 16.7.8.1, Section 16.7.9.1 , Section 16.7.10.1.1, Section 16.7.10.2.1, Section 16.7.10.2.2, Section 16.7.10.3.1, Section 16.7.10.3.2, Section 16.7.10.4, Section 16.7.11.1.1, Section 16.7.11.2.1 , Section 16.7.12.1.1, Section 16.7.12.1.2, Section 16.7.12.2.1, Section 16.7.12.2.2, Section 16.7.13.1 to Section 16.7.13.3	n/a	
		Standard methodologies from scientific literature and provincial and federal guidance and inventory documents will be used to measure indicators for each focal species within VCs. Proposed methodologies for measurement indicators within each VC are as follows; more details will be provided in the Application.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.3	n/a	First sentence from Row 17 of Wildlife Omissions added to existing row.
		Effects assessments will be completed for each focal species.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.7	n/a	New Row from Row 18 of Wildlife Omissions
		Baseline inventory will be completed on each focal species to facilitate assessment of potential effects of the proposed Project on Wildlife VCs.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4	Volume 8, Appendix 16-A	New Row from Row 19 of Wildlife Omissions
		Mountain Goat, Grizzly Bear, Moose, Marten, Wolverine, and Hoary Marmot wildlife habitat ratings, including field verification, will be completed according to RISC standard (1999a) and will be based on terrestrial ecosystem mapping completed for the Project. Life requisites will be modelled for each species and will be selected based on considering the following: limiting habitat requirements, potential interaction with the Project, and potential for adverse effects resulting from the Project. Effects will be discussed based on life stages, such as growing and winter season use, for specific species.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.3.2.2	n/a	Language inserted into existing row from Row 20 of Wildlife Omissions
		Habitat modelling for Wolverine will be consistent with fundamentals in Lofroth and Krebs (2007).	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.4.4.2	Volume 8, Appendix 16-A	New Row from Row 21 of Wildlife Omissions
		Generally, species specific modelling will be completed at reconnaissance level (RISC 1998) to identify Mountain Goat, Grizzly Bear, Moose, and Hoary Marmot habitat use and potential Project interactions.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.4.1, Section 16.4.4.2, Section 16.4.4.3, Section 16.4.4.5	Volume 8, Appendix 16-A	New Row from Row 22 of Wildlife Omissions

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		Bat detectors will be used with placement based on a field surveys to identify high probability areas such as forest stands with large snags or cliff areas. The acoustic detectors will be used to identify species occurrence and habitat usage. The inventory will be consistent with Best Management Practices for Bats In BC (Holroyd et al. 2016).	Wildlife and Wildlife Habitat Effects Assessment	n/a	Volume 8, Appendix 16-A, Section 3.2.6 (pg 17) and Section 4.7.3 (pg 129-133)	New Row from Row 23 of Wildlife Omissions
		Focal bird species for the VCs Migratory Breeding Birds, Raptors, and Non-migratory Game Birds were selected using two criteria: i) species at risk that have potential interactions with the Project or ii) species that represent each broad habitat type that has potential interactions with the Project: alpine, old/mature forest, riparian, shrub/early successional.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.2, Section 16.3.3.	n/a	
		Potential Project effects to the Migratory Breeding Bird VC will be assessed using habitat guilds representative of those found within the Project area. Habitat ratings will be completed for focal species: Common Nighthawk, Black Swift, Olive-sided Flycatcher, MacGillvray's Warbler, Northern Goshawk (including Queen Charlotte laingi subspecies), Western Screech Owl (including the kennicottii subspecies), White-tailed Ptarmigan, and Sooty Grouse. The assessment will include and evaluate species at risk seasonal use (breeding, migration, and overwintering) of the Project area. Listed species will not be used specifically as indicators to assess impacts to migratory birds.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.3, Section 16.4.3.2, Section 16.4.5.1.	n/a	
		Field surveys will be completed using point counts for songbirds and call playback for raptors consistent with RISC standards (1999b, 2001). Migratory bird survey data will be evaluated in relation to habitat use, specifically: species abundance, distribution, and density in each Project area habitat. Field data will be used to develop habitat models and for reconnaissance level inventory of species at risk that have low potential for interaction with the Project: Band-tailed Pigeon, Rusty Blackbird, Horned Grebe, Western Grebe, and Red-necked Phalarope. Field surveys will provide a reconnaissance level inventory for all other songbird and raptor species that potentially occur in the RSA. Species at risk and vegetation surveys will be spatially integrated so that habitat functioning for specific species can be evaluated on a habitat (i.e., vegetation community) basis. The assessment will include and evaluate species at risk seasonal use (breeding, migration, and overwintering) of the Project area.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.5.1, Section 16.4.5.3	Volume 8, Appendix 16-A	New Row from Row 26 of Wildlife Omissions
		Potential suitable nesting habitat for Marbled Murrelet (MAMU) will be identified following Burger et al. (2009) using air photo interpretation and ortho imagery, combined with the current critical habitat model for marbled murrelet (Environment and Climate Change Canada 2016).	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.5.2.3, Section 16.7.10.3.1	Volume 8, Appendix 16-A	New Row from Row 27 of Wildlife Omissions
		The effects assessment for Marbled Murrelet will be conducted in accordance with the EA Standard Guidance for the Marbled Murrelet Recovery Strategy. Direct habitat assessments will be completed in the LSA, and habitat modelling will encompass both the LSA and RSA.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3 Chapter 16, Section 16.7. Section 10.3.2, Section 16.7.14, Section 16.8.3, Section 16.8.3.8, Section 16.8.4.8.3, Section 16.8.4.8	Volume 8, Appendix 16-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		If suitable nesting habitat for MAMU is identified within the LSA, then species specific surveys will be conducted following guidance from species experts at Environment and Climate Change Canada.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.3.2.1, Table 16.4-1, Section 16.4.5.2.3, Section 16.11	Volume 8, Appendix 16-A	New Row from Row 29 of Wildlife Omissions
		The Application will include a determination as to whether effects to suitable nesting habitat (SNH) will compromise the minimum nesting critical habitat retention level (including any conservation areas identified by the province, such as Wildlife Habitat Areas (WHAs)) for the conservation region where the project occurs.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.5.2, Section 16.7.10.3.1	Volume 8, Appendix 16-A	
		The Application will include a determination as to whether effects to suitable nesting habitat (SNH) will compromise the minimum nesting critical habitat retention level (including any conservation areas identified by the province, such as Wildlife Habitat Areas (WHAs)) for the conservation region where the project occurs.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.5.2, Section 16.7.10.3.1	Volume 8, Appendix 16-A	Duplicate Row
		Field surveys for amphibians will follow RISC standards (RISC 1998), including identification of suitable habitat and time constrained searches conducted in suitable breeding habitats.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.6.1	Volume 8, Appendix 16-A	New Row from Row 32 of Wildlife Omissions
4.10.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the VC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.4	Volume 8, Appendix 16-A	
4.10.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4	Volume 8, Appendix 16-A	
		The Application will describe current wildlife and wildlife habitat conditions within the Project assessment boundaries.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4	Volume 8, Appendix 16-A	
		Methods will be detailed for characterizing existing conditions for Wildlife VCs and related indicators, including a summary of how baseline data, maps, and models were collected and/or generated. In addition, the methods section will identify the QA/QC and data management tools used for baseline data collection and compilation.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.3.	Volume 8, Appendix 16-A	
		The following information will be used to characterize wildlife and wildlife habitat baseline conditions:	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4	Volume 8, Appendix 16-A	
		• summary of available existing wildlife and wildlife habitat inventory and habitat use data for the RSA and LSA;	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.	Volume 8, Appendix 16-A	
		• results from wildlife baseline inventories completed for the Project in the RSA and LSA including but not limited to: o Wildlife habitat ratings; o Wildlife, bird, and amphibian surveys; and o Incidental observations of wildlife and wildlife sign.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4	Volume 8, Appendix 16-A	
		• results from Project wildlife habitat mapping for the RSA and LSA for select wildlife species using applicable RISC standards and best practices where standards are not available;	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.3.	Volume 8, Appendix 16-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• other data sources including, but not limited to, element occurrences from the BC Conservation Data Centre, the BC Wildlife Species Inventory database, and other publically available databases; and	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.3.1.	Volume 8, Appendix 16-A	
		• where available, traditional ecological knowledge or local knowledge related to wildlife and wildlife habitat.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.3.1, Section 16.4.1.3, Section 16.4.1.4, Section 16.4.1.5, Section 16.4.1.6, Section 16.8.2.3	Volume 8, Appendix 16-A	
		The Application will include a description of relevant legislation and list applicable provincial and regional best management practices and guidance documents. Wildlife VCs will be assessed using guidance from, but not limited to, the following documents and legislation: • BC Environmental Management Act (British Columbia 2003); • BC Forest and Range Practices Act (British Columbia 2002); • BC Mines Act (British Columbia 1996a); • BC Wildlife Act (British Columbia1996b); • Canadian Biodiversity Strategy (Environment Canada 1995); • Federal Policy on Wetland Conservation (Government of Canada 1991); • Migratory Birds Convention Act (Government of Canada 1994); and • Species at Risk Act (Government of Canada 2002). Applicable land management plans and the NFA will also be considered and used to guide the assessment of Project effects on wildlife and wildlife habitat.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.2	Volume 8, Appendix 16-A	
4.10.3	Potential Effects	The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.5	Volume 8, Appendix 16-A	
		The Application will summarize the anticipated interactions between the proposed Project and the Wildlife VC being assessed. Key mitigations to be employed to minimize residual adverse effects will be identified.	Wildlife and Wildlife Habitat Effects Assessment; Wildlife Management Plan	Volume 3, Chapter 16, Section 16.5, Section 16.6 Volume 5, Chapter 29.26	Volume 8, Appendix 16-A	
		The Application will identify and evaluate the Project works and activities that have the potential to result in changes to the wildlife species (including federally-listed species) and measurement indicators identified for the Wildlife assessment.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.5, Section 16.7	Volume 8, Appendix 16-A	
		Importantly, context of the existing conditions on status and sensitivity of the species to further effects from the Project will be considered in the evaluation.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4	Volume 8, Appendix 16-A	
4.10.4	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the VC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures).	Wildlife and Wildlife Habitat Effects Assessment; Wildlife Management Plan	Volume 3, Chapter 16, Section 16.6 Volume 5, Chapter 29.26	Volume 8, Appendix 16-A	
		The Application will identify and describe measures to protect and avoid harming, killing, or disturbing Wildlife VCs or destroying or taking their nests or eggs.	Wildlife and Wildlife Habitat Effects Assessment; Wildlife Management Plan	Volume 3, Chapter 16, Section 16.6; Volume 5, Chapter 29.26	Volume 8, Appendix 16-A	
		Mitigation measures that will be employed to avoid, minimize, or offset potential adverse effects on Wildlife VCs, will be presented and incorporated into the assessment.	Wildlife and Wildlife Habitat Effects Assessment; Wildlife Management Plan	Volume 3, Chapter 16, Section 16.6.3, table 16.6-1.	n/a	New Row added from Row 58 of Wildlife Omissions

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		IDM will evaluate the environmental design and mitigation measures that can be incorporated into the Project to mitigate adverse effects.	Wildlife and Wildlife Habitat Effects Assessment; Wildlife Management Plan	Volume 3, Chapter 16, Section 16.6; Volume 5, Chapter 29.26	n/a	New Row from Row 50 of Wildlife Omissions
		A description of measures to be taken to avoid or lessen any potential effects from the Project on each Wildlife species (e.g. federally-listed) and its critical habitat will be completed.	Wildlife and Wildlife Habitat Effects Assessment; Wildlife Management Plan	Volume 3, Chapter 16, Section 16.6; Volume 5, Chapter 29.26	n/a	New Row from Row 51 of Wildlife Omissions
		The Application will identify and describe measures to protect and avoid harming, killing, or disturbing Wildlife VCs or destroying or taking their nests or eggs. When mitigating the effects to suitable nesting habitat of bird VCs, a buffer will be considered around SNH in a manner that reduces the edge/SNH area ratio to minimize effects from hard edges such as increased predation risk and microclimate effects. Uncertainty associated with the effectiveness of the proposed measures will be noted. Monitoring will be proposed where it is identified that there may be an ongoing risk to a species or guild, or where there is some uncertainty regarding the effectiveness of mitigation measures.	Wildlife and Wildlife Habitat Effects Assessment; Wildlife Management Plan	Volume 3, Chapter 16, Section 16.6 Volume 5, Chapter 29, Section 29.26	Volume 8, Appendix 16-A	
4.10.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.7.2, 16.7.3 , Section 16.7.4, Section 16.7.5, Section 16.7.6, Section 16.7.7, Section 16.7.8, Section 16.7.9, Section 16.7.10, Section 16.7.11 , Section 16.7.12, Section, 16.7.13	Volume 8, Appendix 16-A	
		The context, direction, magnitude, geographic (spatial) extent, duration, timing, reversibility, and likelihood of the predicted changes to the primary measurement indicators and the subsequent effects on VC assessment endpoints will be described as outlined in Section 3.6.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 6, Section 6.7.2 Volume 3, Chapter 16, Sections 16.7.x.x.2 (e.g. 16.7.3.1.2)	n/a	New Row from Row 57 of Wildlife Omissions
		The Application will present the assessment of predicted incremental residual effects of the Project to the measurement indicators and assessment endpoints identified for Wildlife VCs. The assessment will include consideration of the following for each of the Wildlife VCs: • habitat availability; • habitat distribution; and • mortality risk.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.7.3.1, Section 16.7.3.2, Section 16.7.3.3 (Mountain Goat); Section 16.7.4.1, Section 16.7.4.2, Section 16.7.5.1, Section 16.7.5.2, Section 16.7.6.1, Section 16.7.7.1 , Section 16.7.7.2, Section 16.7.8.1, Section 16.7.9.1 , Section 16.7.10.1.1, Section 16.7.10.2.1,	Volume 8, Appendix 16-A	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.7.2, Section 16.7.3, Section 16.7.4, Section, Section 16.7.5, 16.7.6, Section 16.7.7, Section, Section 16.7.8, Section, Section 16.7.9, Section 16.7.10, Section, Section 16.7.11, Section 16.7.12, Section	Volume 8, Appendix 16-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.7.2, Section 16.7.3, Section, Section 16.7.4, Section 16.7.5, Section, Section 16.7.6, Section 16.7.7, Section16.7.8 , Section 16.7.9 , Section 16.7.10, Section, Section 16.7.11 , Section 16.7.12, Section 16.7.13	Volume 8, Appendix 16-A	
4.10.6	Cumulative Effects and their Significance	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	n/a	n/a	n/a	Language amended per Row 59 of Wildlife Omissions
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.8.3	Volume 8, Appendix 16-A	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.8.4, Section 16.8.5	Volume 8, Appendix 16-A	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section, 16.6, Section 16.8.4	Volume 8, Appendix 16-A	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.8.4, Section 16.8.5	Volume 8, Appendix 16-A	
4.10.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.9	Volume 8, Appendix 16-A	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for Wildlife VCs and support the development of adaptive mitigation plans. Reference will be made to any reclamation monitoring programs developed to verify that predictions regarding re-establishment of wildlife usage or wildlife habitat occur as anticipated. Any recommended follow-up monitoring to confirm the results of the effects assessment	Wildlife and Wildlife Habitat Effects Assessment; Wildlife Management Plan	Volume 3, Chapter 16, Section 16.9 Volume 5, Chapter 29.26	Volume 8, Appendix 16-A	
4.10.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects and determination of significance for Wildlife VCs. The Application will also indicate the VCs to which the results of this assessment have been forwarded for incorporation in their assessments.	Wildlife and Wildlife Habitat Effects Assessment	Volume 3, Chapter 16, Section 16.4.3.2.2, Section 16.7.14	Volume 8, Appendix 16-A	
4.11	Aquatic Resources	A concise introduction of the Aquatic Resources assessment will be provided, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.1	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and assessment and how the input from consultation has been incorporated into the Aquatic Resources assessment.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.3.2	Volume 8, Appendix 27-A Volume 8, Appendix 28-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
	Information Sources	The Application will provide the information sources used in the assessment.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.3.1	Volume 8, Appendix 18-A	
	Valued Components, Intermediate Components, and Measurement Indicators	The Application will identify that Aquatic Resources are a VC that may be affected by the Project.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.3.3	Volume 8, Appendix 18-A	
		The Application will describe the measurement indicators, intermediate components, and assessment endpoints that will be used to comprehensively evaluate the potential changes to Aquatic Resources that may result from the Project (Table 30 in the AIR).	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.3.3	n/a	
4.11.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the VC, including maps, in a manner consistent with 3.2 of the AIR (Assessment Boundaries).	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.3.4	n/a	
4.11.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.3.1, Section 17.4.1, Section 17.4.2	Volume 8, Appendix 18-A	
		The regulatory setting for BC projects with potential impacts on Aquatic Resources will be described, including reference to the Metal Mining Effluent Regulations, British Columbia Approved and Working Water Quality Guidelines (2014), and the Ministry of Environment's Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (2012).	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.2	Volume 8, Appendix 18-A	
		The methods used for characterizing existing conditions for the Aquatic Resources VCs will be provided for the baseline program which was initiated in 2014. This will include a summary of spatial and temporal coverage of field assessments and a description of the field and lab methods used.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.4.3	Volume 8, Appendix 18-A	
		The Application will summarize results from the baseline Aquatic Resources for watercourses in the LSA and RSA, with a focus on benthic invertebrate and periphyton community metrics such as abundance, density, biomass (as chlorophyll a), richness, diversity, and proportion of sensitive or tolerant species. Pertinent information from other relevant VCs (Sediment Quality, Surface Water Quality, and Hydrology) will be referenced and utilized as necessary.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.4.4	Volume 8, Appendix 18-A	
4.11.3	Potential Effects	The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.5.2	n/a	
		The Application will summarize anticipated interactions between the proposed Project and the VC being assessed within the LSA.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.5.2	n/a	
4.11.4	Mitigation Measures	The Application will identify measures to avoid, manage, or otherwise mitigate potential adverse effects to the VC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.6	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
4.11.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.7.3	n/a	
		The Application will characterize the residual effects using the effects criteria in Section 3.6 of the AIR. Policies, guidelines, and standards considered in the analysis. Any modelling products used to predict residual effects will be described.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.7.3.1.2, Section 17.7.3.2.2, Section 17.7.3.3.2, Section 17.7.3.4.2,	n/a	
		The analysis will include the assessment of predicted incremental residual effects of the Project to the measurement indicators and assessment endpoints identified for the Aquatic Resources VC.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.7.3	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.7.3, Section 17.7.3.1.3, Section 17.7.3.2.3, Section 17.7.3.3.3, Section 17.7.3.4.3, Section 17.7.3.1.4, Section 7.7.3.2.4, Section 17.7.3.3.4, Section 17.7.3.4.4	n/a	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.7.3.1.5, Section 17.7.3.2.5, Section 17.7.3.3.5, Section 17.7.3.4.5	n/a	
		The effects of the Project on Aquatic Resources within local watercourses will also be assessed in the context of potential effects on fish populations of the Bear River.	Aquatic Resources Effects Assessment Fish and Fish Habitat	Volume 3, Chapter 17, Section 17.7.3.2.1 Volume 3, Chapter 18, Section 18.5.3.2 and 18.6.1.2	Volume 8, Appendix 14-C	
4.11.6	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities);	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.8	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.8.4.5	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.8.6	n/a	
4.11.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Aquatic Resources Effects Assessment	Volume 3, Chapter 17, Section 17.9	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for the Aquatic Resources VCs, consistent with the Aquatic Effects Monitoring Program. Reference to management plans being developed or implemented by IDM or by the province, where applicable, will be made.	Aquatic Resources Effects Assessment Management Plans and Monitoring	Volume 3, Chapter 17, Section 17.9 Volume 5, Chapter 29.5, Section 29.5.4	n/a	
		Baseline data will be evaluated and incorporated in the development of a meaningful and effective AEMP.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	
		Reference to management plans being developed or implemented by IDM or by the province, where applicable, will be made.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	
4.11.8	Conclusion	The Application will provide a consolidated summary of the predicted residual adverse effects and determination of significance for the Aquatic Resources VCs.	Aquatic Resources Effects Assessment	Volume 3, Chapter 18, Section 18.7.4.4	n/a	
		The Application will also indicate the VCs to which the results of the Aquatic Resources assessment have been forwarded for incorporation in their assessments.	Aquatic Resources Effects Assessment	Volume 3, Chapter17, Section 17.10	n/a	
4.12	Fish	A concise introduction of the Fish assessment will be provided, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.1	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the assessment.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.3.2	Volume 9, Appendix 27-A Volume 9, Appendix 28-A	
	Information Sources	The Application will provide the information sources used in the assessment. Sources of regional fisheries data, such as the BC Fish Inventory Data Query, Aboriginal Fund for Species at Risk (AFSAR) reports, and the Nass South Sustainable Resource Management Plan (MFLNRO, 2012) will be collated and used to understand fish community trends over time. Other sources of regional fish habitat data will be collated and used to understand trends over time.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.3.1, Section 18.4.3.1, Section 18.4.4.2	Volume 8, Appendix 18-A	
	Valued Components, Intermediate Components, and Measurement Indicators	The Application will identify that Fish is a VC that may be affected by the Project.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.1 , Section 18.3.3	n/a	
		The Application will describe the measurement indicators, intermediate components, and assessment endpoints that will be used to comprehensively evaluate the potential changes to Fish that may result from the Project (Table 32 in the AIR).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.3.3	n/a	
4.12.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the VC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.3.4	n/a	
4.12.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.4	Volume 8, Appendix 18-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The regulatory setting for BC projects with potential impacts on fisheries will be described, including reference to the federal Fisheries Act, Metal Mining Effluent Regulations (if required), and the Ministry of Environment's Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (2012).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.2	n/a	
		The methods used for characterizing existing conditions for Fish VCs will be provided for the baseline program which was initiated in 2014. This will include a summary of spatial and temporal coverage of field assessments and a description of the field and lab methods used.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.4.3.2, Section 18.4.3.3, Section 18.4.3.4	Volume 8, Appendix 18-A	
		Results from the baseline fisheries program will be summarized for Fish VCs in the LSA and RSA with a focus on the following information: • fish species presence/absence; • fish community composition; • relative abundance and/or population density estimates; • spatial and temporal distribution; • potential or documented life stage usage (e.g. spawning, rearing, overwintering, feeding, and migrating) of each Fish VC. Results may be based on spawning surveys, fish size and age, or fish habitat suitability; and • baseline metal concentrations of fish tissues and comparison to tissue guidelines for the protection of aquatic life.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7.3.2	Volume 8, Appendix 18-A	
		the Fish Habitat VC will be referenced for detailed information	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.4.4.1	Volume 8, Appendix 18-A	
4.12.3	Potential Effects	The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.5.2	n/a	
		The Application will summarize the anticipated interactions between the proposed Project and the VC being assessed within the LSA.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.5.3	n/a	
4.12.4	Mitigation Measures	The Application will identify measures to avoid, manage, or otherwise mitigate potential adverse effects to the VC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.6	n/a	
4.12.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.6.6	n/a	
		The Application will present the assessment of predicted incremental residual effects of the Project to the measurement indicators and assessment endpoints identified for Fish VCs.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7	n/a	
		The effects of the Project on Fish VCs within local watercourses will also be assessed in the context of potential effects on populations of the Bear River. The context, direction, magnitude, geographic (spatial) extent, duration, timing, reversibility, and likelihood of the predicted changes to the primary measurement indicators and the subsequent effects on the assessment endpoints will be described as outlined in Section 3.6. Mitigation measures that will be employed to avoid, minimize, or offset potential adverse effects on Fish VCs will be presented and incorporated into the assessment.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7	n/a	
4.12.6	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.8	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.8.4.4	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Fish and Fish Habitat Effects Assessment	n/a	n/a	
4.12.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm the predictions made for Fish VCs, consistent with the Aquatic Effects Monitoring Program (AEMP).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	
		Baseline data will be evaluated and incorporated in the development of a meaningful and effective AEMP.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	
		Reference to management plans being developed or implemented by IDM or by the province, where applicable, will be made.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	
4.12.8	Conclusion	The Application will provide a consolidated summary of the predicted residual adverse effects and determination of significance for Fish VCs. The Application will also indicate the VCs to which the results of the Fish assessment have been forwarded for incorporation in their assessments.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
4.13	Fish Habitat	A concise introduction of the VC Fish Habitat assessment will be provided, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.1	Volume 8, Appendix 18-A	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the Fish Habitat assessment.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.3.2	n/a	
	Information Sources	The Application will provide the information sources used in the assessment.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.3.1, Section 18.4.3.1	Volume 8, Appendix 18-A	
	Valued Components, Intermediate Components, and Measurement Indicators	The Application will identify that Fish Habitat is a VC that may be affected by the Project.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.1, Section 18.3.3	n/a	
		The Application will describe the measurement indicators, ICs, and assessment endpoints that will be used to comprehensively evaluate the potential changes to Fish Habitat that may result from the Project (Table 34 in the AIR).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.3.3	n/a	
4.13.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the VC, including maps, in a manner consistent with Section 3.2 of the AIR (Assessment Boundaries).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.3.4	n/a	
4.13.2	Existing Conditions	The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.4	Volume 8, Appendix 18-A	
		The regulatory setting for BC projects with potential effects on fisheries will be described, including reference to the federal Fisheries Act, Metal Mining Effluent Regulations (if required), and the Ministry of Environment's Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (2012).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.2	n/a	
		The methods used for characterizing existing conditions for the Fish Habitat VC will be provided for the baseline program which was initiated in 2014. This will include a summary of spatial and temporal coverage of field assessments and a description of the field methods used.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.4.3.2, Section 18.4.3.3, Section 18.4.3.4	Volume 8, Appendix 18-A Volume 8, Appendix 18-B	
		Results from the baseline Fish Habitat program will be summarized for watercourses in the LSA and RSA with a focus on the following information: • fish habitat quantity and suitability for Fish VCs in each Project watercourse; and • the presence of documented barriers to fish passage.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.4.4.1	Volume 8, Appendix 18-A	
4.13.3	Potential Effects	The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.5.2	n/a	
		The Application will summarize anticipated interactions between the proposed Project and the VC being assessed within the LSA.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.5.2	n/a	
		Potential effects resulting from any interaction between the access road and Bitter Creek will be referenced to the high water mark (above and below).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.5.2	n/a	
4.13.4	Mitigation Measures	The Application will identify measures to avoid, manage, or otherwise mitigate potential adverse effects to the VC in a manner consistent with Section 3.5 of the AIR (Mitigation Measures). Relevant management plans will be referenced. Linkages to other Section in the Application must be identified. Uncertainty associated with the effectiveness of the proposed measures will be noted.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.6	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
4.13.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7.3	n/a	
		The Application will present the assessment of predicted incremental residual effects of the Project to the measurement indicators and assessment endpoints identified for Fish VCs.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7.3	n/a	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7.3	n/a	
		The Application will also include a discussion of how uncertainty has been addressed (in accordance with Section 3.9 of the AIR) and provide a qualitative evaluation of the resulting level of confidence in the residual effects analyses for each measurement indicator and assessment endpoint. Where relevant, uncertainty associated with the effectiveness of proposed mitigation will be included in this discussion.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.7.3	n/a	
		The effects of the Project on Fish Habitat within local watercourses will also be assessed in the context of potential effects on fish populations of the Bear River.	Aquatic Resources Effects Assessment Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 17, Section 17.7.3.2.1 Volume 3, Chapter 18, Section 18.7.3	Volume 8, Appendix 14-C	
4.13.6	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.8	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.8.4.4	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Fish and Fish Habitat Effects Assessment	n/a	n/a	
4.13.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will provide the conceptual outline for any monitoring and follow-up programs recommended to confirm predictions made for the Fish Habitat VCs, consistent with the planned AEMP. Recommended monitoring will also include monitoring of the effectiveness of offsetting measures, if required, for the Project. Reference to management plans being developed or implemented by IDM or by the province, where applicable, will be made.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.9	n/a	
4.13.8	Conclusion	The Application will provide a consolidated summary of the predicted residual adverse effects and determination of significance for the Fish Habitat VCs. The Application will also indicate the VCs to which the results of the Fish Habitat assessment have been forwarded for incorporation in their assessments.	Fish and Fish Habitat Effects Assessment	Volume 3, Chapter 18, Section 18.10	n/a	
5.0	**Economic Effects Assessment**	The Application will include an assessment of Economic VCs and ICs identified in the AIR.	Economic Effects Assessment	Volume 3, Chapter 19	Volume 8, Appendix 20-A	
		The economic effects assessment will be conducted in accordance with the methodology specified in Section 3.0 of the AIR (Assessment Methodology), and reported using the organizational structure demonstrated in the Section 4.0 of the AIR (Environmental Effects Assessment).	Economic Effects Assessment	Volume 3, Chapter 19	Volume 8, Appendix 20-A	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the economic effects assessment.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.3.2	n/a	
	Information Sources	The Application will provide the information sources used in the assessment.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.3.1, Section 19.4.3	n/a	
		Baseline data will be collected through interviews with key informants and a review of existing, publically available information on recent resource development projects in the region. Baseline information will be obtained from sources including: • key informant interviews; • environmental assessment applications and supporting studies of other, recent projects in the northwest region of BC, which provide comprehensive and recent descriptions of baseline social and economic conditions and primary research; • Statistics Canada and DataBC; • local and regional government by-laws and planning documents; and • spatial data from provincial, regional, and local governments.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.3.1, Section 19.4.3	n/a	
	Supporting Reports and Studies	The ESCIA's key findings related to the effects assessment of Economic VCs and ICs will be summarized in the Application, in a manner that allows the reader to understand each VC's effects assessment. Section 12.4 of the Application will be dedicated to the 8(f) assessment.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.5	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will present the VCs, ICs, assessment endpoints, and measurement indicators to be used in the assessment of Project-related effects on the economic pillar (Table 36 in the AIR).	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.3.3	n/a	
		The rationale for selection of VCs, ICs, and indicators will be presented in the Application.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.3.3	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
5.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative, and technical study area boundaries, as applicable to the VC or IC, including maps.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.3.4	n/a	
		The Economic effects assessment will use the Regional District of Kitimat-Stikine (RDKS) as the RSA that will be used a baseline comparison for predicting, measuring, and monitoring the effects and potential effects of the proposed Project on economic aspects of the environment. The Application will identify any federal lands and lands located outside Canada that may be affected by this Project.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.3.4.1, Section 19.5.3.4.1	n/a	
5.2	Existing Conditions	The Application will include a description of the existing economic conditions within the LSA in sufficient detail to enable potential Project-VC interactions to be identified, understood, and assessed.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.4	Volume 8, Appendix 20-A	
		The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.4	Volume 8, Appendix 20-A	
5.3	CRA Fisheries	The Application will provide a concise introduction of the assessment of the VC CRA Fisheries, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.4.4.4, Section 19.5.2, Section 19.5.3.4	n/a	
5.4	Contemporary Land and Resource Use	The Application will provide a concise introduction of the assessment of the VC Contemporary Land and Resource Use, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.4.4.3, Section 19.5.2, Section 19.5.3.3	n/a	
5.5	Project-Related Employment (Direct and Indirect)	The Application will provide a concise introduction of the assessment of the IC Project-Related Employment (Direct and Indirect), including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.4.4.1, Section 19.5.2, Section 19.5.3.1	n/a	
5.6	Revenue to the Local Economy	The Application will provide a concise introduction of the assessment of the IC Revenue to the Local Economy, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.4.4.2, Section 19.5.2, Section 19.5.3.2	n/a	
5.7	Potential Effects	The Application will identify any potential adverse effects to Economic VCs in a manner consistent with Section 3.4 of the AIR (Potential Effects).	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.5.1, Section 19.5.2, Section 19.5.3	n/a	
		The assessment will note interactions that were excluded from further assessment, including the methods and criteria used to justify the exclusion and input received from EAO, government agencies, Nisga'a Nation, and the public regarding the exclusion.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.5.2, Section 19.5.3	n/a	
		The Application will describe any effects on the socio-economic conditions of Aboriginal Groups resulting from a change in the environment and the effects of any change to the environment directly linked or necessarily incidental to federal decisions on overall socio-economic conditions.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.5.3	n/a	
5.8	Mitigation Measures	The Application will identify measures to avoid, manage, or otherwise mitigate potential adverse effects to the Economic VCs.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.6, Section 19.6.2	n/a	
		The Application will identify mitigation and design measures to minimize adverse effects on the economic context of the proposed Project.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.6, Section 19.6.2	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Skills, Training, and Employment Plan that will be developed as part of the Application will include available information on local and regional workforces to estimate how many residents have a skill set suitable for participation in Project employment, or how they might be trained if not. The Plan will also include proposed efforts for maximizing employment, training, and business opportunities related to the Project. These efforts will be discussed with Nisga'a Nation and local and regional stakeholders.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.6.1.1	n/a	
		The Social and Economic Management Plan that will be developed as part of the Application will include considerations of the reasonably foreseeable potential social and economic effects of the Project.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.6	n/a	
5.9	Residual Effects and their Significance	The Application will identify where the proposed Project will have an adverse residual effect on the economic setting the context, magnitude, extent, duration, reversibility, and frequency.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.7.1	n/a	
		Where an adverse residual effect on the economic setting is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.7.1	n/a	
5.10	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.8	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.8	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.8	n/a	
5.11	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.9	n/a	
5.12	Summary Table	The Summary Table will capture the following information in relation to the identified economics VCs and ICs: • potential effects to economic VCs and ICs; • proposed mitigation measures to address the effects identified; • potential residual effects and the significance of the residual effects; and • key mitigation measures and commitments made by the proponent to mitigate adverse effects of the Project on economic VCs and ICs.	Economic Effects Assessment	Volume 3, Chapter 19, Section 19.7, Section 19.7.4	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
6.0	**Social Effects Assessment**	The Application will include an assessment of social VCs and ICs identified in the AIR.	Social Effects Assessment	Volume 3, Chapter 20	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the social effects assessment.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.3.2	n/a	
	Information Sources	The Application will provide the information sources used in the assessment.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.3.1, Section 20.4.3.1, Section 20.11	Volume 8, Appendix 20-A	
		The Application will identify the methods used to collect the baseline data used to describe the social setting in accordance with the requirements of Section 3.3. Information will be obtained from sources including: • key informant interviews; • environmental assessment applications of other, recent mining projects in the northwest region of BC, which provide comprehensive and recent descriptions of baseline social and economic conditions and primary research; • Statistics Canada and DataBC; • local and regional government by-laws and planning documents; and • spatial and demographic data from provincial, regional, and local governments.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.4.3	Volume 8, Appendix 20-A	
	Supporting Reports and Studies	The Application will meet the requirements of Chapter 10, paragraph 8(f), of the Nisga'a Final Agreement, IDM will conduct an ESCIA outlined in the ESCIA Work Plan agreed to by Nisga'a Nation, IDM, and the Agency.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.5	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will present the VCs, ICs, assessment endpoints, and measurement indicators to be used in the assessment of Project-related effects on the social pillar (Tables 40 and 41 in the AIR) The rationale for selection of VCs, ICs, and indicators will be presented in the Application.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.3.3	n/a	
		The Application will include the rationale for any differences in the list of VCs and ICs presented in the Application from those listed in the final AIR; proposed changes to the VCs and ICs identified in the AIR will be discussed in advance with EAO and Working Group members.	Social Effects Assessment	n/a	n/a	
6.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative, and technical study area boundaries, as applicable to the VC or IC, including maps.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.3.4	n/a	
6.2	Existing Conditions	The Application will include a description of the existing social conditions within the study area in sufficient detail to enable potential Project-VC or -IC interactions to be identified, understood, and assessed.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.4.1, Section 20.4.4, Section 20.5.2	Volume 8, Appendix 20-A	
		The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR (Existing Conditions).	Social Effects Assessment	Volume 3, Chapter 20, Section 20.4, Section 20.10.5	Volume 8, Appendix 20-A	
		Assumptions regarding the Project workforce (e.g., areas of origin, number, demographics, etc.) will be stated in the Application.	Economic Effects Assessment Social Effects Assessment	Volume 3, Chapter 19, 19.5.3.1.2 Volume 3,Chapter 20, Section 20.5.3.1	n/a	
6.3	Social and Health Services	The Application will provide a concise introduction of the assessment of the VC Social and Health Services, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.1, Section 20.4.4.2, Section 20.5.2	Volume 8, Appendix 20-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
6.4	Housing	The Application will provide a concise introduction of the assessment of the VC Housing, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.1, Section 20.4.4.3, Section 20.5.2	Volume 8, Appendix 20-A	
6.5	Potential Social Issues Related to Project and Project Workforce	The Application will provide a concise introduction of the assessment of the VC Potential Social Issues Related to Project and Project Workforce, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines. Social Issues Related to the Project and Project Workforce will include consideration for inequalities, vulnerable populations, mental illnesses, drug and alcohol abuse, increased rates of communicable diseases, and others aspects of community health and well-being that may be identified through consultation with communities.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.1, Section 20.4.4.1, Section 20.5.2	Volume 8, Appendix 20-A	
6.6	Infrastructure	The Application will provide a concise introduction of the assessment of the VC Infrastructure, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.1, Section 20.4.4.4, Section 20.5.2	Volume 8, Appendix 20-A	
6.7	Recreational Values	The Application will provide a concise introduction of the assessment of the VC Recreational Values, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.1, Section 20.4.4.6, Section 20.5.2	Volume 8, Appendix 20-A	
6.8	CULRTP	The Application will provide a concise introduction to the assessment of the VC CULRTP, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines. The Application will note that the assessment of CULRTP will only be conducted for TSKLH and MNBC, as per the EIS Guidelines.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.10.1, Section 20.10.3.5	Volume 8, Appendix 20-A	
6.9	Project-Related Traffic	The Application will provide a concise introduction of the assessment of the IC Project-Related Traffic, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.1, Section 20.4.4.5, Section 20.5.2	Volume 7, Appendix 1-C	
		The Application will include discussion of the potential effects of traffic-related injuries on Social and Health Services as well as on the assessment endpoint Community Health and Wellbeing.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.5.3.3	Volume 7, Appendix 1-C	
6.10	Visual Quality	The Application will provide a concise introduction of the assessment of the IC Visual Quality, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.1, Section 20.4.4.7, Section 20.5.2, 20.5.3.7	Volume 8, Appendix 20-B	
6.11	Potential Effects	The Application will identify any potential adverse effects to Social VCs in a manner consistent with Section 3.4 Potential Effects.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.5.3	n/a	
		The social effects assessment will note interactions that were excluded from further assessment, including the methods and criteria used to justify the exclusion and input received from EAO, government agencies, Aboriginal Groups, and the public regarding the exclusion.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.5	n/a	
		The Application will describe any effects on the socio-economic conditions of Aboriginal Groups resulting from a change in the environment and the effects of any change to the environment directly linked or necessarily incidental to federal decisions on overall socio-economic conditions.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.5.3	n/a	
6.12	Mitigation Measures	The Application will identify measures to avoid, manage, or otherwise mitigate potential adverse effects to the social VCs.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.6	n/a	
		The Application will identify mitigation and design measures to minimize adverse effects on the social context of the proposed Project.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.6	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Health and Social Services Plan and Social and Economic Management Plan that will be developed as part of the Application will include considerations of the reasonably foreseeable potential social and economic effects of the Project.	Management Plans	Volume 5, Chapter 29.13, Section 29.20	n/a	
		Mitigation and management plans will, therefore, be developed for potential negative effects to the selected Economic and Social VCs that are identified during the preparation of the Application. These plans will be included in the Application that will be submitted to the Working Group for review.	Management Plans	Volume 5, Chapter 29, Section 29.6, Section 29.13, Section 29.14, Section 29.19, Section 29.20, Section 29.24, Section 29.1.2.3	n/a	
		The Application will include high-level, framework documents detailing plans and approaches to managing the Project's potential social and health issues and related effects on Social and Health Services.	Management Plans	Volume 5, Chapter 29, Section 29.6, Section 29.13, Section 29.14, Section 29.19, Section 29.20, Section 29.24	n/a	
6.13	Residual Effects and their Significance	The Application will identify where the proposed Project will have an adverse residual effect on the social setting the context, magnitude, extent, duration, reversibility, and frequency.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.7	n/a	
		Where an adverse residual effect on the social setting is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Social Effects Assessment	Volume 3, Chapter 20, Section 20.7	n/a	
6.14	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities);	Social Effects Assessment	Volume 3, Chapter 20, Section 20.8	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Social Effects Assessment	n/a	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Social Effects Assessment	n/a	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Social Effects Assessment	n/a	n/a	
6.15	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Social Effects Assessment	Volume 3, Chapter 20, Section 20.9	n/a	
7.0	**Heritage Effects Assessment**	The Application will include an assessment of Heritage VC identified in the AIR (for key indicators in Table 44 of the AIR). The assessment will be conducted in accordance with the methodology specified in Section 3.0 Assessment Methodology of this AIR and reported using the organizational structure demonstrated in Section 4.0 Environmental Effects Assessment.	Heritage Effects Assessment	Volume 3, Chapter 21	Volume 8, Appendix 21-A	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
	Regulatory Context	The Application will address the requirements of the *Heritage Conservation Act* in relation to heritage and cultural resources.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.1, Section 21.2	n/a	
	Input from Consultation	The Application will describe the influence of consultation on issues scoping and how the input from consultation has been incorporated into the heritage effects assessment.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.3.2	n/a	
	Information Sources	The Application will identify the methods used to collect the baseline data used to describe the heritage setting in accordance with the requirements of Section 3.3 of the AIR. Information will be obtained from sources including: • the archaeological studies that have been completed to support the proposed Project, including the Preliminary Field Reconnaissance report, and the Archaeological Overview Assessment; • environmental assessment applications of other, recent mining projects in the northwest region of BC, which provide comprehensive and recent descriptions of baseline heritage conditions and primary research; • local and regional government by-laws and planning documents; and • spatial data from provincial, regional, and local governments.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.3, Section 21.4	Volume 8, Appendix 21-A	
	Supporting Reports and Studies	In order to meet the requirements of Chapter 10, paragraph 8(f), of the Nisga'a Final Agreement, IDM will conduct an ESCIA in compliance with the ESCIA Work Plan agreed to by Nisga'a Nation, IDM, and the Agency. The ESCIA's key findings related to the effects assessment of Heritage VC will be summarized in the Application, in a manner that allows the reader to understand the VC's effects assessment. Section 12.4 will be the section of the Application dedicated to the 8(f) assessment.	Heritage Effects Assessment Nisga'a Nation	Volume 4, Chapter 21, Section 21.10 Volume 4, Chapter 27, Section 27.5.5	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The Application will present the VC, assessment endpoints, and measurement indicators to be used in the assessment of Project-related effects on the heritage pillar (Table 44 of the AIR). The rationale for selection of the VC and indicators will be presented in the Application.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.3.4	n/a	
		The Application will include the rationale for any differences in the list of VCs and ICs presented in the Application from those listed in the final AIR.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.3.4	n/a	
7.1	Context and Boundaries	The Application will identify the spatial, temporal, administrative, and technical study area boundaries, as applicable to the VC, including maps.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.3.5	n/a	
7.2	Existing Conditions	The Application will include a description of the existing heritage conditions within the study area in sufficient detail to enable potential Project-VC interactions to be identified, understood, and assessed.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.4	n/a	
		The Application will summarize existing conditions in a manner consistent with Section 3.3, Existing Conditions, of this AIR.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.4	n/a	
7.3	Cultural and Heritage Resources	The Application will provide a concise introduction of the assessment of the VC Cultural and Heritage Resources, including the purpose of the assessment, the structure of the assessment, and linkages to other disciplines.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.3.4.5, Section 21.3.4.6	n/a	
7.4	Potential Effects	The Application will identify any potential adverse effects to the Heritage VC in a manner consistent with Section 3.4 of the AIR.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.5	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will note interactions that were excluded from further assessment, including the methods and criteria used to justify the exclusion and input received from EAO, government agencies, Nisga'a Nation, and the public regarding the exclusion.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.3.4, Section 21.5.2	n/a	
		The Application will describe:	n/a	n/a	n/a	
		• any effects of a change in the environment on physical and cultural heritage and/or any structure, site or thing that is of historical, archaeological, paleontological, or architectural significance to Nisga'a Nation;	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.5.3	n/a	
		• any effects of any change to the environment directly linked or necessarily incidental to federal decisions on physical and cultural heritage and/or any structure, site, or thing that is of historical, archaeological, paleontological, or architectural significance.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.5.3	n/a	
7.5	Mitigation Measures	The Application will identify measures to avoid, manage, or otherwise mitigate potential adverse effects to the Heritage VC.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.6	n/a	
7.6	Residual Effects and their Significance	The Application will identify where the proposed Project will have an adverse residual effect on Heritage setting the context, magnitude, extent, duration, reversibility, and frequency.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.7	n/a	
		Where an adverse residual effect on the cultural or heritage setting is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Heritage Effects Assessment	n/a	n/a	
7.7	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.8	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 Conducting a Cumulative Effects Assessment of this AIR;	Heritage Effects Assessment	n/a	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Heritage Effects Assessment	n/a	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Heritage Effects Assessment	n/a	n/a	
7.8	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.9	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
7.9	Summary Table	The Application will contain a Summary Table that will summarize the following information in relation to the identified Heritage VC: • potential effects to the Heritage VC; • proposed mitigation measures to address the effects identified; • potential residual effects and the significance of the residual effects; and • key mitigation measures and commitments made by the proponent to mitigate adverse effects of the Project on the Heritage VC.	Heritage Effects Assessment	Volume 3, Chapter 21, Section 21.10	n/a	
8.0	**Health Effects Assessment**	The Application will include an assessment of health VCs identified in the AIR.. The assessment will be conducted in accordance with the methodology specified in Section 3.0 Assessment Methodology of this AIR and reported using the organizational structure demonstrated in Section 4.0 Environmental Effects Assessment.	Volume 3, Chapter 22, Section 22.7	n/a	n/a	
		Community and public health effects (and potential related physiological effects) resulting from social, economic, built environment, and traffic changes will be described under the Social pillar in Section 6, Social Effects Assessment.	Volume 3, Chapter 20 (all) Volume 3, Chapter 22 (all)	Volume 7, Appendix 1-C	n/a	
	Input from Consultation	The Application will provide a concise introduction of the assessment of the Human Health VC, including the purpose and structure of the assessment and linkages to other disciplines.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.1, Section 22.2, Section 22.3.1	n/a	
	Valued Components, Assessment Endpoints, and Measurement Indicators	The VC within the Human Health Effects Assessment is Human Health. The rationale for inclusion and methodology for evaluation will be included within the Application.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3	n/a	
		The rationale for inclusion and methodology for evaluation will be included within the Application. The key indicators used to evaluate the VC will vary somewhat by receptor group, but in general will include the following components: 1. Comparison of baseline measurements and predictions to applicable environmental quality screening thresholds (e.g., regulatory guidelines, criteria, standards for air quality metrics, soil quality, water quality, and sediment quality) to identify	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3	n/a	
		The Application will identify the VCs selected for assessment according to the methodology specified in Section 3.1 Issues Scoping and Selection of Valued Components.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3	n/a	
8.1	Context and	*left intentionally blank*	n/a	n/a	n/a	
8.1.1	Spatial Boundaries	The Application will identify the spatial boundaries related to Human Health and provide rationale for boundary selection.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3.1, Section 22.3.4, Section 22.3.4.1, Figures 22.3-2 through 22.3-5	n/a	
8.1.2	Temporal Boundaries	The Application will identify temporal boundaries related to the assessment of the Human Health VC and will describe the associated rationale for these boundaries.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3.4.2	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
8.1.3	Administrative Boundaries	The administrative boundaries for the HHRA will be defined by the Canadian legislative and regulatory requirements associated with the Application process as well as those federal Canadian and British Columbia regulatory requirements relevant to the completion of HHRAs.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3.4.3	n/a	
8.1.4	Technical Boundaries	The technical boundaries for the Health Effects Assessment will be those imparted by the regulatory guidance in place for the completion of HHRAs within BC and Canada. The principal BC and Canadian federal technical guidance documents that will be considered include: • Health Canada. 2012. Part I: Guidance on Human Health Preliminary Quantitative Risk Assessment (PQRA), Version 2.0 • Health Canada. 2010. Part II: Health Canada Toxicological Reference Values • Health Canada. 2012. Part V: Guidance on Human Health Detailed Quantitative Risk Assessment for Chemicals (DQRA) • Health Canada. 2010. Supplemental Guidance on Human Health Risk Assessment for Country Foods • BCMOE. 2015. Technical Guidance on Contaminated Sites 7 - Supplemental Guidance for Risk Assessments	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3.4.4	n/a	
8.2	Existing Conditions	The Application will include a description of the existing physiological health conditions within the LSA in sufficient detail to enable potential Project-VC interactions to be identified, understood, and assessed. The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR.	Health Effects Assessment	Volume 3, Chapter 22, Sections 22.3.1, 22.3.4.1, and 22.5.3.5.4	Volume 8, Appendix 22-A Volume 8, Appendix 22-B	
8.2.1	Approach to Collecting Baseline Information	Thorough consideration of potential human exposures to the media provided in Section 8.2.1 of the AIR, via relevant pathways (e.g., inhalation, purposeful or incidental ingestion, dermal contact), a baseline of human health risk will be established.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.5.3.3	Volume 8, Appendix 22-A Volume 8, Appendix 22-B	
		The Application will detail the field programs for the acquisition of soil quality data, sediment quality data, water quality data, air quality data, vegetation tissue data, and fish tissue data	Landforms and Natural Landscapes Effects Assessment Sediment Quality Effects Assessment Groundwater Quality Effects Assessment	Volume 3, Chapter 9, Section 9.4.4 Volume 3, Chapter 11, Section 11.4.4 Volume 3, Chapter 13, Section 13.4.4 Volume 3, Chapter 14, Section 14.4.4 Volume 3, Chapter 15, Section 15.4.4 Volume 3, Chapter 18, Section 18.4.4	Volume 8, Appendix 9-A (Appendix H)	
		A set of surrogate foods representing all Country Foods will be identified in order to conduct a food consumption risk assessment. The surrogate foods selected are those known to be consumed by local receptors with a higher likelihood of being exposed to contaminants, and foods such as those represented by baseline tissue residue analysis. Any information provided by NLG in this matter will be considered.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.5.1	Volume 8, Appendix 22-A, Section 6.3.6, Section 7.1.3, Section 7.1.4, Section 7.1.5	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		Details pertaining to the specific methods used to estimate non-carcinogenic risk levels (i.e., hazard quotients [HQs]) and cancer risk levels (i.e., incremental lifetime cancer risks), are described within referenced literature, and will be cited in the Application	Health Effects Assessment	Volume 3, Chapter 22, Section 22.5.1	Volume 8, Appendix 22-A, Section 9.1.1, Section 9.1.2, Section 9.2.1, Section 9.2.2	
		The HHRA will be completed for relevant human exposure groups. A Screening Level Ecological Risk Assessment will be developed using the same methodology and applied to representative species at various trophic levels, habitats, feeding guilds, and environments that are appropriate for the Project site and will include identified VCs.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.2.1	Volume 8, Appendix 22-A Volume 8, Appendix 22-B	
		The risk assessments will include consideration of baseline exposure and an assessment of predicted exposure. The risk assessment paradigm includes the following major Section: 1. Introduction; 2. Problem Formulation; 3. Exposure Assessment; 4. Toxicity (Effects/Hazard) Assessment; and 5. Risk Characterization.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.4.4, Section 22.5	Volume 8, Appendix 22-A Volume 8, Appendix 22-B	
		The introduction will provide objectives, scope, approach (including summary of supporting studies and regulatory frameworks), background and contextual information (including site description and Project description), and document organization	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3	Volume 8, Appendix 22-A Volume 8, Appendix 22-B	
		The problem formulation is a key component and will include the information in Section 8.2.1 of the AIR.	Health Effects Assessment	Volume 3, Chapter 22, Section 7.3.3	Volume 8, Appendix 22-A, Section 6	
		The exposure assessment will include an estimation of the exposure for each receptor-media exposure route for each operable exposure pathway. Receptor exposure characteristics that influence exposure (e.g., inhalation rates, food consumption rates, etc.) will be identified. Exposure characteristics will be based on Health Canada guidance and on information available from local communities. Bioavailability assessments will be included, if applicable.	Health Effects Assessment	n/a	Volume 8, Appendix 22-A, Section 6.3, Section 7, Section 8, Section 9	
		The risk characterization will combine the exposure assessment results with the toxicity assessment information to provide an estimate of non-cancer hazard quotient and incremental lifetime cancer risk. A consideration of the uncertainties within the study will also be provided to add context to the findings.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.5.3	Volume 8, Appendix 22-A, Section 9	
8.2.3	Technical Reports	A Human Health Risk Assessment (HHRA) report that follows regulatory guidance will be prepared and included as a technical appendix to the Application.	Health Effects Assessment	n/a	Volume 7, Appendix 22-A	
		Worker health and safety will be addressed in the Occupational Health and Safety Plan as part of the Application Environmental Management System.	Management Plans	Volume 5, Section 29.17	n/a	
		The Application will summarize existing conditions in a manner consistent with Section 3.3 of the AIR.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3, Section 22.4, Section 22.5	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
8.3	Potential Effects	Project-related stressors will be considered within an HHRA framework that considers qualitative and quantitative information, as well as potential for risk or adverse effects at a local and/or regional scale. The stressors that will be evaluated in relation to the Project will include the chemical emissions into the atmosphere and terrestrial and aquatic environments, along with physical stressors, such as light and noise. Receptors of concern will include: residents, recreational users within the area, and non-occupational work exposures (i.e., non-mine workers in area). Aboriginal Groups will also be specifically considered given cultural and Treaty use of Country Foods within the area of the proposed Project.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.2, Section 22.2.3, Section 22.3.1, Section 22.4.3.1, and Section 22.5.1.3.	Volume 8, Appendix 22-A	
		Project components that may contribute to the exposure pathways identified in Section 8.3 of the AIR will be determined within the risk assessment process. Current soil quality baseline within these areas will be used to assess baseline risk estimates. Similarly, it is recognized that wildlife that feed directly or indirectly on species exposed to mine-related areas such as waste rock, tailings, and roadways have the potential to take up COPCs into tissue. This will be considered in the baseline risk assessment as well.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.5	Volume 7, Appendix 22-A, Section 7.1.1, Section 7.1.4, Section 7.1.5	
		Air quality modelling completed in the Air Quality effects assessment will provide estimates of COPC air concentrations caused by emission sources associated with Project activities, including mineral processing and transportation of materials.	Air Quality Effects Assessment	Volume 3, Chapter 7 (all)	n/a	
		The predictive water quality modelling completed for the Surface Water Quality effects assessment will provide an estimate of COPC water concentrations caused by potential erosion and metal leaching from soil and rock sources, and air deposition of particulate and non-particulate emissions associated with Project activities, including mineral processing and transportation of materials.	Surface Water Quality Effects Assessment	Volume 3, Chapter 13 (all)	n/a	
		The Application will identify potential adverse effects to the VC in a manner consistent with Section 3.4 Potential Effects of the AIR.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.3, Section 22.4, Section 22.5	Volume 8, Appendix 22-A	
		The stressors that will be evaluated in relation to the Project will include the chemical emissions into the atmosphere and terrestrial and aquatic environments, along with physical stressors, such as light and noise. Receptors of concern will include: residents, recreational users within the area, and non-occupational work exposures (i.e., non-mine workers in area). Aboriginal Groups will also be specifically considered given cultural and Treaty use of Country Foods within the area of the proposed Project	Health Effects Assessment	Volume 3, Chapter 22, Section 22.2, Section 22.2.3, Section 22.3.1, Section 22.4.3.1, Section 22.5.1.3, Section 22.6.1, Section 22.9.1	Volume 8, Appendix 22-A	
8.4	Mitigation Measures	The Application will identify measures to avoid, manage, or otherwise mitigate potential adverse effects to the VC. Relevant management plans will be referenced. Linkages to other Section in the Application must be identified.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.6	n/a	
8.5	Residual Effects and their Significance	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the context, magnitude, extent, duration, reversibility, and frequency as described in Section 3.6 of the AIR (Characterization of Residual Effects).	Health Effects Assessment	Volume 3, Chapter 22, Section 22.7	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		Where an adverse residual effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.7	n/a	
8.6	Cumulative Effects and their Significance	The Application will:	n/a	n/a	n/a	
		• determine whether any cumulative interactions between residual effects of the proposed Project and the potential residual effects of other developments, based on the preliminary list of past, present, and reasonably-foreseeable developments provided in the AIR, are likely to occur, consistent with Section 3.10.1 of the AIR (Identifying Past, Present or Reasonably-Foreseeable Projects and/or Activities);	Health Effects Assessment	Volume 3, Chapter 22, Section 22.8.2.3, Section 22.8.2.4	n/a	
		• conduct a cumulative effects assessment consistent with Section 3.10.2 of the AIR (Conducting a Cumulative Effects Assessment);	Health Effects Assessment	Volume 3, Chapter 22, Section 22.8	n/a	
		• identify any additional mitigation measures, consistent with Section 3.5 of the AIR (Mitigation Measures);	Health Effects Assessment	n/a	n/a	
		• where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, IDM's significance determination and predictive confidence, in accordance with Section 3.7 (Likelihood), 3.8 (IDM's Determination of Significance) and 3.9 (Confidence and Risk) of the AIR.	Health Effects Assessment	n/a	n/a	
8.7	Follow-up Strategy	Where a residual effect and/or cumulative effect have been identified, the Application will include a description of a follow-up strategy that is consistent with Section 3.11 of the AIR (Follow-up Strategy).	Health Effects Assessment	Volume 3, Chapter 22, Section 22.9	n/a	
8.8	Conclusion	The Application will provide a consolidated summary of the predicted residual effects and determination of significance for the VC Human Health.	Health Effects Assessment	Volume 3, Chapter 22, Section 22.10	n/a	
		The Application will also indicate the disciplines of study to which the results of this assessment have been forwarded for incorporation in their assessments.	n/a	Volume 3, Chapter 22., Section 22.10	n/a	
9.0	**Accidents and Malfunctions**	The Application will include the following:	n/a	n/a	n/a	
		• Identification of potential accidents and malfunctions;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.1.2, Section 23.4	n/a	
		• The overall methodology for assessing the potential risk of an event (likelihood and consequence);	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.2	n/a	
		• Definitions of each category of likelihood;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.2	n/a	
		• Definitions for each category of consequence;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.2	n/a	
		• An assessment of the likelihood of the event occurring, based on historical trends and predictive models;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4	n/a	
		• Identification of proposed measures to reduce the likelihood of the event;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.3	n/a	
		• Assessment of consequence of the event, in a manner consistent with the direct effects assessments outlined in this document;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4	n/a	
		• Identification of measures to mitigate the consequences to valued components;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.3	n/a	
		• Conclusions on the potential risk (likelihood multiplied by consequence) of the accident or malfunction.	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will identify potential accidents, malfunctions, and unplanned events that may occur in any phase of the Project. The circumstances under which these events could occur will be described. Proposed risk mitigations and contingency plans will be provided in the Application and cross-referenced with the Environmental Management and Monitoring programs for the Project. Residual effects are defined in terms of risk and risk criteria will be used to evaluate the classification of residual effects based on the likelihood that a specific severity of environmental or public consequence could occur.	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.1.2, Section 23.4, Section 23.4.1 to 23.4.5, Section 23.5.1 to 23.5.8, Section 23.3, Section 23.1.2, Section 23.2	Volume 8, Appendix 23-A	
		Accidents and/or malfunction events that will be assessed include, but are not limited to:	n/a	n/a	n/a	
		• spills of hazardous substances stored on site (reagents, fuels, contained liquid waste);	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.3	n/a	
		• leakage or spill of materials with potential risks to the environment (including petroleum products, chemicals and other materials) as a result of road, air, and/or water line transportation;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.3, Section 23.4.2.1	n/a	
		• accidental release of contaminants from ore/waste rock stockpiles;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.2	n/a	
		• breach or failure of tailings dam or other containment structure;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.1	Volume 8, Appendix 23-A	
		• accidental discharge of off-specification effluent from treatment plants;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.2, Section 23.4.1.3, Section 23.4.2.4	n/a	
		• sediment releases into watercourses;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.1, Section 23.4.1.2, Section 23.4.2.4	Volume 8, Appendix 23-A	
		• accidents related to construction and operation of underground facilities;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.6, Section 23.4.2.3	n/a	
		• fires or explosions;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.4, Section 23.4.2.6	n/a	
		• failure of permanent and temporary waste rock dumps or stockpiles;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.5	n/a	
		• safety to personnel resulting from inrushes to the underground mine;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.2.3	n/a	
		• safety to personnel resulting from fly rock from blasting; and	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.1.4	n/a	
		• failure of the lower adit plug, installed on closure of the mine.	Alternative Means of Undertaking the Project Accidents and Malfunctions	Volume 2, Chapter 4, Section 4.5; Volume 3, Chapter 23, Section 23.4.1.6	Volume 7, Appendix 1-I, page 66	
		The Application will include a Failure Modes and Effects Analysis, developed for the feasibility study, to evaluate the likelihood of a hypothetical failure of a TMF designed system and the potential consequences (effects) of that failure on the selected VCs or ICs.	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.1.2	Volume 8, Appendix 23-A	
		The assessment will:	n/a	n/a	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• describe the key environmental and public health effects of such failures, including any effects on CEAA 2012 s.5 components;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4	Volume 8, Appendix 23-A	
		• identify mitigation/controls that are incorporated into the proposed Project design to reduce the risk;	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.3, Section 23.4	n/a	
		• identify contingency plans and response options to address residual risks.	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4	n/a	
		An assessment of potential effects to CRA Fisheries will also be presented in the Application using results from this study.	Accidents and Malfunctions	Volume 3, Chapter 23, Section 23.4.2	Volume 8, Appendix 23-A	
10.0	**Effects of the Environment on the Project**	The Application will include:	n/a	n/a	n/a	
		• the environmental factors deemed to have possible consequences on the proposed Project, including, but not necessarily limited to, consideration of natural hazards such as:	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.2	n/a	
		o predicted climate change effects throughout the Project life cycle, including extreme weather events (e.g., heavy rain/snowfall, flooding, extreme temperatures, drought and wind);	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.11	n/a	
		o avalanches;	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.9.1.1.2, Section 24.9.2	Volume 8, Appendix 9-B	
		o landslides;	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.9.1, Section 24.11.3.4	Volume 8, Appendix 9-B	
		o natural seismic events;	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.9.1.1.2, Section 24.9.3	Volume 8, Appendix 9-B	
		o lightning and forest fire.	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.5.2.3, Section 24.5.2.5, Section 24.5.3.2, Section 24.10 , Section 24.11.3.6, Section 24.11.4	n/a	
		• a description of any changes or effects on the proposed Project that may be caused by the above-mentioned environmental factors;	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.4 to Section 24.11.4	n/a	
		• the likelihood and consequence of the changes or effects to relevant VCs or ICs;	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.5 (Table 24.5-1), Section 24.6 (Table 24.6-1), Section 24.7 (Table 24.7-1), Section 24.8 (Table 24.8-3), Section 24.9 (Table 24.9-1), Section 24.10 (Table 24.10-1)	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• practical mitigation measures, including design strategies and environmental contingency plans, to avoid or minimize the likelihood and consequence of the effects of the environment on the proposed Project;	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.5.1.2 (for Typical Precipitation), Section 24.5.2.5 (for High Precipitation), Section 24.5.3.2 (for Low Precipitation), Section 24.5 (Table 24.5-1), Section 24.6 (Table 24.6-1), Section 24.6.4 (for Extreme Air Temperatures), Section 24.7.2 (for Wind), Section 24.7 (Table 24.7-1), Section 24.8.1.2 (for Typical Surface Water Flow), Section 24.8 (Table 24.8-3), Section 24.8.2.2 (for Floods), Section 24.8.3.2 (for low floods), Section 24.9 (Table 24.9-1), Section 24.9.1.3 (for landslides), Section 24.9.2.2 (avalanches), Section 24.9.4.3 (fluvial hazards), 24.9.5 (Geohazard), 24.10.2 (Wildfire), Section 24.11.3 (Climate change)	n/a	
		• a conclusion about the potential risk of an effect of the environment on the proposed Project and to relevant VCs or ICs.	Effects of the Environment on the Project	Volume 3, Chapter 24, Section 24.5 (Table 24.5-1), Section 24.6 (Table 24.6-1), Section 24.7 (Table 24.7-1), Section 24.8 (Table 24.8-3), Section 24.9 (Table 24.9-1), Section 24.10 (Table 24.10-1), Section 24.11.5	n/a	
		The Application will assess the effects of the environment on the Project, including consideration of natural hazards.	Effects of the Environment on the Project	Volume 3, Chapter 24	n/a	
		The Application will identify how local environmental conditions and natural hazards may adversely affect the proposed Project.	Effects of the Environment on the Project	Volume 3, Chapter 24	n/a	
PART C	**ABORIGINAL CONSULTATION**					
11.0	**Tsetsaut Skii km Lax Ha and Métis Nation BC**		n/a	n/a	n/a	
11.1	Consultation Summary	For TSKLH and MNBC, the Application will include:	n/a	n/a	n/a	
		• a summary of past and planned consultation activities;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.3 Volume 4, Chapter 26, Section 26.3	Volume 9, Appendix 27-A (Aboriginal Consultation Report #2)	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• a summary of proposed changes to the Aboriginal Consultation Plan resulting from the TSKLH and MNBC's feedback, or experience from consultation to date, including any such changes which have been implemented;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.3 Volume 4, Chapter 26, Section 26.3	Volume 9, Appendix 27-A (Aboriginal Consultation Report #2)	
		• a summary of the key issues and concerns raised by TSKLH and MNBC relevant to the environmental assessment, IDM's responses to those issues and concerns, and the status of resolution;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.9 Volume 4, Chapter 26, Section 26.9	n/a	
		• a map that identifies Indian Reserves and Aboriginal communities, for the TSKLH and MNBC and the Project location;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.2 Volume 4, Chapter 26, Section 26.2	n/a	
		• traditional Ecological Knowledge and Traditional Land Use information, as available, with a description of how Traditional Ecological Knowledge (TEK) and Traditional Land Use Studies (TLUS) information was gathered and incorporated into the assessment of impacts of the proposed Project on Aboriginal Interests;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.4 Volume 4, Chapter 26, Section 26.4	n/a	
		• a description of the Aboriginal Interests of each group identified through secondary research techniques or provided directly through consultation activities. The description will include background information on ethnography, language, governance, economy and reserves;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.2.2 Volume 4, Chapter 26, Section 26.2.2	n/a	
		• a description of potential adverse effects of the proposed Project on Aboriginal Interests;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.5.3 Volume 4, Chapter 26, Section 26.5.3	n/a	
		• a description or summary of mitigation measures to avoid or reduce potential adverse effects on Aboriginal Interests consistent with Section 3.5 of the AIR (Mitigation Measures);	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.6.2 Volume 4, Chapter 26, Section 26.6.2	n/a	
		• a characterization of the residual adverse effects on Aboriginal Interests after mitigation using the methodology described in Section 3.6 (Characterization of Residual Effects), 3.7 (Likelihood), and 3. 9 (Confidence and Risk) of the AIR and incorporating the findings of the VC chapters in the Application that are relevant to Aboriginal Interests;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.7.3 Volume 4, Chapter 26, Section 26.7.3	n/a	
		• a summary of any outstanding Aboriginal Interests issues identified by TSKLH or MNBC;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.4.2 Volume 4, Chapter 26, Section 26.4.2	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• a summary of publicly-available arrangements or agreements reached between the proponent and TSKLH or MNBC.	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.3 Volume 4, Chapter 26, Section 26.3	n/a	
11.2	Other Matters of Concern	The Application will include:	n/a	n/a	n/a	
		• a list of other matters of concern raised by TSKLH and MNBC with respect to potential environmental, economic, social, heritage, and health effects of the proposed Project, which have not already been considered in the discussion about Aboriginal Interests or in the statutory requirements under CEAA 2012, where applicable;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.8 Volume 4, Chapter 26, Section 26.8	n/a	
		• a description (or summary if described elsewhere in the Application) of the mitigation measures to address potential effects on other matters of concern to TSKLH and MNBC;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.8 Volume 4, Chapter 26, Section 26.8	n/a	
		• a characterization of the residual adverse effects after mitigation, in a manner consistent with assessment methodology in this AIR;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.8 Volume 4, Chapter 26, Section 26.8	n/a	
		• a description of how these matters of concern have been addressed from the perspective of TSKLH or MNBC and IDM.	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.8 Volume 4, Chapter 26, Section 26.8	n/a	
11.3	Issue Summary Table	The Application will include:	n/a	n/a	n/a	
		a Summary Table that identifies Aboriginal Interests or other matters of concern to TSKLH and MNBC that may be impacted by the proposed Project, and the measures to avoid, mitigate or otherwise manage the effects;	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.9 Volume 4, Chapter 26, Section 26.9	n/a	
		• an Appendix, the Aboriginal Consultation Report, which contains comments received from TSKLH and MNBC regarding this section of the Application.	Tsetsaut Skii km Lax Ha Metis Nation BC	Volume 4, Chapter 25, Section 25.9 Volume 4, Chapter 26, Section 26.9	Volume 9, Appendix 27-A	
12.0	Nisga'a Nation		n/a	n/a	n/a	
12.1	Nisga'a Nation Background and Context	The Application will include:	n/a	n/a	n/a	
		• background information about Nisga'a Nation's cultural and political context, including information regarding the NFA;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.2	n/a	
		• a description of the Nisga'a Nation Treaty Rights, including background information on ethnography, language, governance, and economy;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.2	n/a	
		• a map that identifies Nisga'a Lands, the Nass Area, and the Nass Wildlife Area under the NFA, and the Project location.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.2	n/a	
12.2	Nisga'a Nation Consultation	The Application will include:	n/a	n/a	n/a	
		• a summary of past and planned consultation activities with Nisga'a Nation;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.3	Volume 9, Appendix 27-A	
		• a summary of proposed changes to the Nisga'a Consultation Plan resulting from Nisga'a Nation feedback, or experience from consultation to date, including any such changes which have been implemented;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.3	n/a	
		• a summary of the key issues and concerns raised by Nisga'a Nation relevant to the environmental assessment, IDM's responses to those issues and concerns, and the status of resolution; and	Nisga'a Nation	Volume 4, Chapter 27, Section 27.7	n/a	
		• a summary of publicly-available arrangements or agreements reached between the proponent and Nisga'a Nation.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.3	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
12.3	Environmental Effects Assessment (Pursuant to Chapter 10 Paragraph 8(e) of the NFA)	The Application will include:	n/a	n/a	n/a	
		• IDM's analysis of whether or not the proposed Project can reasonably be expected to have an adverse environmental effect on the residents of Nisga'a Lands, Nisga'a Lands, or Nisga'a interests as set out in the NFA;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4, 27.4.8	n/a	
		• the measures proposed by IDM to prevent or mitigate those effects.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.3, Section 27.4.4, Section 27.4.5, and Section 27.4.6	n/a	
12.3.1	8(e) Assessment Methodology	The 8(e) assessment will summarize the environmental baseline data and effects assessments in Part B of the Application and link them to the relevant Nisga'a Nation Treaty interests. It will consider direct and indirect interactions between the proposed Project and the biophysical environment.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4	n/a	
12.3.2	Existing Environmental Conditions, Potential Effects, and Mitigation Measures	The Application will summarize the existing environmental conditions, potential environmental effects of the proposed Project, and the proponent's proposed mitigation measures as they relate to Nisga'a Nation Treaty rights.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.2.2, Section 27.4.4.5, Section 27.4.5.5, Section 27.4.6.5, Section 27.4.7.5	n/a	
		Baseline environmental conditions will be summarized from information contained in Part B of the Application and a literature review of existing information. The sources for the information contained in Part B of the Application will be listed under each relevant section.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.2.2, Section 27.2.3, Section 27.2.4.	n/a	
12.3.3	8(e) Assessment	The Application will consider in the following parameters in accordance with the Agency's EIS Guidelines for the proposed Project:	n/a	n/a	n/a	
		• Ecological Effects: The extent that a given component of the ecosystem could be altered by the Project so as to cause an adverse effect on that component of the ecosystem.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.3.7.1, Section 27.4.4.7.1, Section 27.4.5.7.1, Section 27.4.6.7.1	n/a	
		• Treaty Right to Use: The extent that a given component of the ecosystem which is currently used or could be used in the future by Nisga'a citizens (regardless of actual levels of past or current use) could be altered by the Project so as to cause an adverse effect on the use of that component of the ecosystem by Nisga'a citizens (or Nisga'a entity).	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.3.7.2, Section 27.4.4.7.2, Section 27.4.5.7.2, Section 27.4.6.7.2	n/a	
		• Human Health: The extent that a given component of the ecosystem could be altered by the Project so as to cause an adverse effect to the health of Nisga'a citizens and other residents of Nisga'a Lands who use that component of the ecosystem.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.3.7.2, Section 27.4.4.7.3, Section 27.4.5.7.3, Section 27.4.6.7.3	n/a	
		In conjunction with the consideration of ecological effects, effects on Treaty right to use, and on human health, IDM will carry out the following steps in support of the 8(e) assessment:	n/a	n/a	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• identify the geographic extent of the Treaty right as set out in the NFA, and establish whether or not the geographic extent of the Treaty right differs in any way from the spatial boundaries applicable to any related VC or indicator discussed elsewhere in the Application. If a difference is identified, determine the relevance to assessing potential adverse environmental effects to the Nisga'a Nation Treaty right;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.3.1, Section 27.4.4.1, Section 27.4.5.1, Section 27.4.6.1	n/a	
		• provide a narrative that clearly describes assumptions and limitations in understanding the full extent of potential adverse environmental effects on residents of Nisga'a Lands, Nisga'a Lands, and Nisga'a interests, as set out in the NFA, and identifies any empirical evidence or professional opinion that has been relied upon;	Nisga'a Nation	Volume 4, Chapter 27, Sections 27.1.1, 27.4, 27.4.1, 27.4.2.1, 27.4.3.1, 27.4.4, 27.4.5.1	n/a	
		• identify any additional information being used to inform the assessment of potential adverse environmental effects on the Nisga'a Nation Treaty right;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.1.1, Section 27.4.1	n/a	
		• determine whether there is the potential for an adverse environmental effect on the Nisga'a Nation Treaty right;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.4.3, Section 27.4.5.3, Section 27.4.6.3, Section 27.4.7.3	n/a	
		• provide descriptions of any actions proposed for the purpose of impact prevention or mitigation of potential adverse environmental effects on the Nisga'a Nation Treaty right;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.4.5, Section 27.4.5.5, Section 27.4.6.5, Section 27.4.7.5	n/a	
		• determine whether a residual adverse environmental effect, after mitigation, is reasonably expected, having a regard to the likelihood of an impact on the Nisga'a Nation Treaty right and confidence level of such predictions;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.8	n/a	
		• describe any residual adverse environmental effect on the Nisga'a Nation Treaty right in terms of its magnitude, duration, frequency, reversibility, context, and confidence level of such predictions; and	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.8	n/a	
		• views of NLG, if provided, on any of the above-noted information requirements.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.4.2.2	n/a	
12.4	Economic, Social, and Cultural Effects Assessment (Pursuant to Chapter 10, Paragraph 8(f) of the NFA)	This section of the Application will include IDM's analysis of the effects of the proposed Project on the existing and future economic, social, and cultural well-being of Nisga'a citizens, in accordance with paragraph 8(f) of Chapter 10 of the NFA. The analysis of the potential effects will be based on the Nisga'a Economic, Social, and Cultural Impact Assessment (ESCIA) conducted for the proposed Project.	Social Effects Assessment – CULTRP	Volume 3, Chapter 20; Volume 4, Chapter 27, Section 27.5	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
12.4.1	8(f) Assessment Methodology	The ESCIA will consider all Nisga'a Nation Treaty interests identified in Table 50 of the AIR. A scoping exercise within the ESCIA will review and assess the potential for interaction between the proposed Project's activities and components and aforementioned Nisga'a Nation interests.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.5.2	n/a	
		To assess the potential economic, social, and cultural effects carried forward for further consideration IDM will: • meet with NLG staff and other interested parties to discuss the 8(f) assessment approach; • review relevant Nisga'a Nation reports and previous 8(f) reports to support the current assessment process and conclusions; • solicit feedback from Nisga'a Nation citizens through community open houses and social media on the interest for employment, training, and business opportunities related to the Project, and how they think it would affect their economic, social, and cultural wellbeing; • develop mitigation measures and avoidance strategies in consultation with NLG and other interested Nisga'a organizations and citizens; and • prepare and circulate a draft 8(f) assessment to NLG for review and comment prior to finalization and submission with the Application.	Nisga'a Nation	Volume 4, Chapter 27, Sections 27.5.2.2	n/a	
		The spatial boundary that will be used for the 8(f) assessment is the Nass Area plus consideration of the Nisga'a Urban Locals in Terrace, Prince Rupert/Port Edward, and Vancouver. Temporal boundaries will consider the life of the proposed Project (construction, operations, reclamation, and post-closure) to the extent to which those effects may persist into the future.	Nisga'a Nation	Volume 4, Chapter 27, Sections 27.5.2.4 and 27.5.2.5	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
12.4.2	Existing Economic, Social, and Cultural Conditions, Potential Effects, and Mitigation Measures	This section of the Application will describe the baseline economic, social, and cultural information of Nisga'a Nation citizens. Information will be collected as part of the ESICA and will be drawn from other Section in Part B of the Application. Sources include, but are not limited to: • consultation with Nisga'a Nation; • ESCIA conducted by IDM for the proposed Project; • similar regulatory applications and project effects assessments for the Kitsault Mine Project, Kerr-Sulphurets-Mitchell (KSM) Mine Project, Brucejack Mine Project, Prince Rupert Gas Transmission Project, and Westcoast Connector Gas Transmission Project; • provincial and federal databases; • land use plans and sustainable resource management plans	Nisga'a Nation	Volume 4, Chapter 27, Section 27.2.2, Section 27.2.3, Section 27.2.4	n/a	
12.4.3	8(f) Assessment	The 8(f) assessment, submitted as part of the Application, will include:	n/a	n/a	n/a	
		• a description of the likelihood and confidence of the proposed Project causing an effect on a Nisga'a Nation's 8(f) interests;		Volume 4, Chapter 27, Sections 27.5.5	n/a	
		• descriptions of any measures proposed to avoid, minimize, mitigate, manage, or monitor potential adverse economic, social, or cultural effects and to maximize any positive effect for Nisga'a citizens;		Volume 4, Chapter 27, Section 27.5.4	n/a	
		• where residual effects are expected on a Nisga'a Nation's 8(f) interests, a characterization of the residual effects, with regard to magnitude, duration, frequency, reversibility, context, and confident level of such predictions;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.5.5	n/a	
		• descriptions of other major projects likely to proceed within the Nass Area within the same relative time period as the proposed Project could be carried out, and an analysis of the potential cumulative effects of the proposed Project relative to Nisga'a Nation's 8(f) interests; and	Nisga'a Nation	Volume 4, Chapter 27, Section 27.5.6	n/a	
		• any remaining or unresolved issues or concerns identified as a result of the review by NLG of the draft 8(f) assessment.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.5.2.2	n/a	
12.5	Other Matters of Concern to the Nisga'a Nation	The Application will include:	n/a	n/a	n/a	
		• a list of other matters of concern raised by the Nisga'a Nation with respect to potential environmental, economic, social, heritage and health effects of the proposed Project, which have not already been considered in the discussion with Nisga'a Nation or in the statutory requirements under CEAA 2012, where applicable;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.6	n/a	
		• a description (or summary if described elsewhere in the Application) of the mitigation measures to address potential effects on other matters of concern to the Nisga'a Nation;	Nisga'a Nation	Volume 4, Chapter 27, Section 27.6	n/a	
		• a characterization of the residual adverse effects after mitigation, in a manner consistent with assessment methodology in this AIR; and	Nisga'a Nation	Volume 4, Chapter 27, Section 27.6	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• a description of how these other matters of concern have been addressed by IDM.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.6	n/a	
12.6	Issue Summary Table	The Application will include a Summary Table that identifies Nisga'a Nation Treaty Rights or other matters of concern to the Nisga'a Nation that may be impacted by the proposed Project and the measures to avoid, mitigate, or otherwise manage the effects.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.7	n/a	
		An Aboriginal Consultation Report will be appended to the Application, which will contain comments received from Nisga'a Nation throughout the Pre-Application Phase of the EA.	Nisga'a Nation	Volume 4, Chapter 27, Section 27.7	Volume 9, Appendix 27-A, Section 2.10	
PART D	**PUBLIC CONSULTATION**					
13.0	**Public Consultation**	The Application will include a report on the results of implementation of the approved Public Consultation Plan including:	n/a	n/a	n/a	
		• Background information:	Public Consultation	Volume 4, Chapter 28, Section 28.3	Volume 10, Appendix 28-A	
		o identification of local governments, residents, property owners, and other rights holders who are potentially impacted by the proposed Project;	Public Consultation	Volume 4, Chapter 28, Section 28.3	Volume 10, Appendix 28-A	
		o maps of local government boundaries, private land, tenures/authorizations, or residences with respect to the proposed Project;	Public Consultation	Volume 4, Chapter 28, Section 28.2, Section 28.3	Volume 10, Appendix 28-A	
		o background information about each potentially-affected municipality and/or stakeholder group.	Public Consultation	Volume 4, Chapter 28, Section 28.3	Volume 10, Appendix 28-A	
		• Public Consultation:	Public Consultation	Volume 4, Chapter 28, Section 28.4	Volume 10, Appendix 28-A	
		o a summary of the past and planned consultation activities;	Public Consultation	Volume 4, Chapter 28, Section 28.4	Volume 10, Appendix 28-A	
		o a summary of any proposed changes to the approved Public Consultation Plan as a result of feedback from local governments, stakeholders or individuals, or experience from consultation to date;	Public Consultation	Volume 4, Chapter 28, Section 28.2.3, Section 28.5	Volume 10, Appendix 28-A	
		o a description of the key issues raised by the public that are relevant to the Application, the responses to those issues, and the status of their resolution.	Public Consultation	Volume 4, Chapter 28, Section 28.5	Volume 10, Appendix 28-A	
		o identification of concerns raised by the public and the measures to avoid, reduce or mitigate those impacts. This information will be provided in the form of a table.	Public Consultation	Volume 4, Chapter 28, Section 28.5	Volume 10, Appendix 28-A	
PART E	**MANAGEMENT PLANS AND FOLLOW-UP PROGRAMS**					
14.0	**Management Plans**	The Application will include:	n/a	n/a	n/a	
		• a list of Management Plans for all phases of the proposed Project;	Management Plans	Volume 5, Chapter 29, Section 29.1.6	n/a	
		• a comprehensive description of the contents of each Management Plan, including the identification of any mitigation measures described within the Application that will be included within the plans.	Management Plans	Volume 5, Chapter 29, Section 29.1 to 29.26	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will identify and describe the management and monitoring plans that will be developed in a manner consistent with an Environmental Management System (EMS). The EMS will be based on criteria provided in the ISO 14001 framework, and it will contain plans required for the construction, operation, closure, and post-closure phases of the Project. IDM will detail how the use of principles such as the precautionary approach and adaptive management will be integrated through all management plans in the Application.	Management Plans	Volume 5, Chapter 29, Section 29.1.2, Section 29.1 to 29.26	n/a	
		The management/monitoring plans will include:	n/a	n/a	n/a	
		• Access Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.3	n/a	
		• Adaptive Management Plan (including requirements for annual reviews and updates to all management plans as necessary, based on monitoring results);	Management Plans	Volume 5, Chapter 29, Section 29.2	n/a	
		• Air Quality and Dust Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.4	n/a	
		• Aquatic Effects Management and Response Plan (including Aquatic Effects Monitoring Program (AEMP), Surveillance Network Program, Effluent Monitoring Program, and Groundwater Monitoring Program);	Management Plans	Volume 5, Chapter 29, Section 29.1.7, Section 29.5, Section 29.5.5, Section 29.18.7, Section 29.25.5.5.3, Section 29.25.5.5.4.1	n/a	
		• Community Involvement Plan;	Management Plans	Volume 5, Chapter 29, Section 29.6	n/a	
		• Cultural and Heritage Resources Protection Plan;	Management Plans	Volume 5, Chapter 29, Section 29.7	n/a	
		• Emergency Response Plan;	Management Plans	Volume 5, Chapter 29, Section 29.8	n/a	
		• Environmental Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.1	n/a	
		• Erosion and Sediment Control Plan (including available site-specific control measures);	Management Plans	Volume 5, Chapter 29, Section 29.9, Section 29.9.6, Section 29.9.6.1 to Section 29.9.6.12	n/a	
		• Explosives Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.10	n/a	
		• Fuel Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.11	n/a	
		• Groundwater Monitoring Plan;	Management Plans	Volume 5, Chapter 29, Section 29.18	n/a	
		• Hazardous Materials Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.12	n/a	
		• Health and Social Services Plan;	Management Plans	Volume 5, Chapter 29, Section 29.13	n/a	
		• Human Resources Plan;	Management Plans	Volume 5, Chapter 29, Section 29.14, Section 29.1.2.3	n/a	
		• ML/ARD Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.15	n/a	
		• Noise Abatement Plan;	Management Plans	Volume 5, Chapter 29, Section 29.16	n/a	
		• Occupational Health and Safety Plan;	Management Plans	Volume 5, Chapter 29, Section 29.17	n/a	
		• Ore Storage Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.15	n/a	
		• Skills, Training and Employment Plan;	Management Plans	Volume 5, Chapter 29, Section 29.19	n/a	
		• Spill Prevention and Response Plan;	Management Plans	Volume 5, Chapter 29, Section 29.21	n/a	
		• Tailings Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.22	n/a	
		• Terrain and Soil Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.23	n/a	
		• Traffic Control Plan;	Management Plans	Volume 5, Chapter 29, Section 29.3	n/a	
		• Vegetation and Ecosystems Management Plan (including invasive plant management);	Management Plans	Volume 5, Chapter 29, Section 29.24, Section 29.24.5.3	n/a	
		• Social and Economic Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.20	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• Surface and Groundwater Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.1.6	n/a	
		• Waste Management Plan;	Management Plans	Volume 5, Chapter 29, Section 29.25	n/a	
		• Waste Rock Management Plan; and	Management Plans	Volume 5, Chapter 29, Section 29.15	n/a	
		• Wildlife Management and Monitoring Plan.	Management Plans	Volume 5, Chapter 29, Section 29.26	n/a	
		Where relevant, such as for the Emergency Response Plan and Spill Prevention and Response Plan, the Application will include consideration of communication with Aboriginal Groups and local stakeholders regarding potential effects to their interests.	Management Plans	Volume 5, Chapter 29, Section 29.1.2.5, Section 29.7.1, Section 29.14.3.2.2, Section 29.15.7, Section 29.19, Section 29.22.8, Section 29.24.6, Section 29.26.1, Section 29.8.5.2, Section 29.21.5.2	n/a	
		The Application will describe the Mine Closure and Reclamation Plan for the Project. This plan will provide details of site conditions and prescriptions proposed for specific locations and a clear basis for the design proposed. The Mine Closure and Reclamation Plan will address regulatory requirements such as closure objectives, soil management, revegetation, the closure and reclamation of mine components, and temporary, final closure, and post-closure overviews and monitoring plans.	Closure and Reclamation	Volume 2, Chapter 5 Volume 2, Chapter 5, Section 5.1.5, Section 5.3, Section 5.4.1, Section 5.4.2, Section 5.6, Section 5.7, Section 5.8, Section 5.9, Section 5.10	n/a	
		The following details will be included in the Mine Closure and Reclamation Plan:	Closure and Reclamation	Volume 2, Chapter 5	n/a	
		• pre- and post-development end land use and land capability;	Closure and Reclamation	Volume 2, Chapter 5, Section 5.3	n/a	
		• opportunities for progressive reclamation;	Closure and Reclamation	Volume 2, Chapter 5, Section 5.8	n/a	
		• revegetation strategies, with a focus on the principles of natural succession;	Closure and Reclamation	Volume 2, Chapter 5, Section 5.4.2	n/a	
		• information on re-establishing native plant communities;	Closure and Reclamation	Volume 2, Chapter 5, Section 5.4.2, Section 5.9.2	n/a	
		• salvage and use of large woody debris	Management Plans Monitoring and Follow-up Programs	Volume 5, Chapter 29, Section 29.23.5.2	n/a	
		• salvage and use of topsoil and overburden;	Closure and Reclamation	Volume 2, Chapter 5, Section 5.4.1	n/a	
		• closure and post-closure water management;	Closure and Reclamation	Volume 2, Chapter 5, Section 5.6.9	n/a	
		• decommissioning activities; and	Closure and Reclamation	Volume 2, Chapter 5, Section 5.6	n/a	
		• contaminated sites and groundwater well decommissioning requirements.	Closure and Reclamation	Volume 2, Chapter 5, Section 5.6.11, Section 5.10.3, Section 5.6.2	n/a	
		The Mine Closure and Reclamation Plan will also include a site-specific Reclamation Monitoring Program to be implemented during each phase of Project development. This monitoring program will assess compliance as well as effectiveness of reclamation prescriptions. It will describe how and when research will be conducted to address knowledge gaps and to test the strategies proposed.	Closure and Reclamation	Volume 2, Chapter 5 Volume 2, Chapter 5, Section 5.1.5, Section 5.3, Section 5.4.1, Section 5.4.2, Section 5.6, Section 5.7, Section 5.8, Section 5.9, Section 5.10 Volume 3, Chapter 15, Section 15.6.4	n/a	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		The Application will provide an initial cost estimate for reclamation bonding based on provincial government guidelines and will include all estimated on-site and off-site costs associated with reclamation and closure, including long-term treatment, monitoring, and maintenance of the Project within the Mines Act application area.	Closure and Reclamation	Volume 2, Chapter 5, Section 5.12	n/a	
		Where applicable, the Application will identify the monitoring programs that involve empirical data collection to allow for data analysis and comparison between data collection periods.	Closure and Reclamation	Volume 2, Chapter 5, Section 5.6.2, Section 5.10	n/a	
15.0	**Monitoring & Follow-up Programs**	The Application will include:	n/a	n/a	n/a	
		• a description of the monitoring and follow-up programs IDM will implement, including their activities, objectives, and reporting;	Monitoring and Follow-up Programs	Volume 5, Chapter 30, Section 30.2, Section 30.5, Section 30.6	n/a	
		• the reporting structure as identified within the environmental management plans, monitoring plans and EA Certificate Conditions.	Monitoring and Follow-up Programs Management Plans	Volume 5, Chapter 29; Chapter 30, Section 30.6	n/a	
		The Application will provide the framework for environmental assessment follow-up programs to be undertaken during the construction, operation, and closure stages of the Project. The focus of these programs would be to test the predictions made in the environmental assessment and the effectiveness of mitigation.	Monitoring and Follow-up Programs	Volume 5, Chapter 30	n/a	
		Monitoring programs will be identified to evaluate the performance of the environmental, economic, social, heritage, or health mitigation strategies and be employed to achieve regulatory compliance. Monitoring programs will be developed in consultation with Nisga'a Nation and agencies having jurisdiction.	Management Plans Monitoring and Follow-up Programs	Volume 5, Chapter 29, Section 29.1.2, Section 29.1.3.7, Section 29.1.5, Section 29.2 Volume 5, Chapter 30, Section 30.1, Section 30.5	n/a	
		The following will be outlined in the Application:	n/a	n/a	n/a	
		• draft management plans prepared to evaluate the implementation and performance of mitigation measures to be undertaken during all stages of the Project;	Management Plans	Volume 5, Chapter 29 (all)	n/a	
		• responsible parties involved in developing and implementing environmental assessment follow-up programs;	Monitoring and Follow-up Programs	Volume 5, Chapter 30, Section 30.7	n/a	
		• planned approach to data management;	Management Plans	Volume 5, Chapter 29, Section 29.1.10.1.4	n/a	
		• planned approach to how the results of the follow-up program will be used to inform an adaptive management approach, if applicable;	Management Plans	Volume 5, Chapter 29, Section 29.1.2, Section 29.2. Section 29.2.6 Volume 5, Chapter 30, Section 30.4	n/a	
		• communication protocols with Nisga'a Nation, local governments, and other interested parties;	Aboriginal Consultation Report Public Consultation Report	Volume 5, Chapter 29, Section 29.6	Volume 9, Appendix 27-A, Section 2.11 Volume 10, Appendix 28-A, Section 2.4	

APPLICATION INFORMATION REQUIREMENTS (AIR)			ENVIRONMENTAL ASSESSMENT APPLICATION			Comments
Air Section No.	AIR Title	AIR Section Language	Application Chapter Title	Application Volume, Chapter and Section	Relevant Appendix	
		• linkages to various other Environmental Management Plans and Monitoring programs.	Management Plans	Volume 5, Chapter 29, Section 29.23.2 Volume 5, Chapter 30, Section 30.5	n/a	
PART F	**CONCLUSIONS**					
16.0	Conclusions	The Application will:	n/a	n/a	n/a	
		• provide IDM's conclusions regarding the potential for significant adverse effects on VCs and ICs from the Project;	Conclusions	Volume 6, Chapter 31, Section 31.5	n/a	
		• request an EA Certificate for the proposed Project;	Conclusions	Volume 6, Chapter 31, Section 31.5	n/a	
		• acknowledge the need, if applicable, to successfully complete a federal assessment and subsequent permitting/authorization processes prior to proceeding with Project construction, operation, and decommissioning.	Conclusions	Volume 6, Chapter 31, Section 31.5	n/a	
	Summary of Residual Effects	The Application will summarize all potential residual effects, including cumulative residual effects, in a table format that depicts the potential effect, Project phases, Project activity, or physical work linked to the effect, proposed mitigation and significance of effect on VCs.	Conclusions	Volume 6, Chapter 31, Section 31.1, section 31.5	n/a	
	Summary of Mitigation Measures	The Application will include a table that identifies the proposed measures to mitigate potential impacts to VCs and ICs. This information provides the foundation for the development of a Table of Conditions for the proposed Project, which would be appended to an EA Certificate, should one be issued.	Conclusions	Volume 6, Chapter 31, Section 31.3, Section 31.5	n/a	