

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
APPLICATION SUMMARY	11	APPLICATION SUMMARY	APPLICATION SUMMARY	1	APPLICATION SUMMARY	n/a	n/a	n/a
APPLICATION SUMMARY	11	APPLICATION SUMMARY	The Application will include a summary, including the following:	1	APPLICATION SUMMARY	n/a	n/a	n/a
APPLICATION SUMMARY	11	APPLICATION SUMMARY	A summary of the 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;	1	APPLICATION SUMMARY	n/a	n/a	n/a
APPLICATION SUMMARY	11	APPLICATION SUMMARY	A brief overview of the assessment process including project reviewability, and the pre-application and application review stages of the EA;	1	APPLICATION SUMMARY	n/a	n/a	n/a
APPLICATION SUMMARY	11	APPLICATION SUMMARY	A brief overview of consultation approaches with Indigenous groups, the public and government agencies to date;	1	APPLICATION SUMMARY	n/a	n/a	n/a
APPLICATION SUMMARY	11	APPLICATION SUMMARY	A summary of the key issues raised by Indigenous groups, the public and government agencies;	1	APPLICATION SUMMARY	n/a	n/a	n/a
APPLICATION SUMMARY	11	APPLICATION SUMMARY	A summary of key adverse effects on Indigenous interests and mitigation measures;	1	APPLICATION SUMMARY	n/a	n/a	n/a
APPLICATION SUMMARY	11	APPLICATION SUMMARY	A summary of key effects, mitigation measures and residual and cumulative effects on Valued Components; and	1	APPLICATION SUMMARY	n/a	n/a	n/a
APPLICATION SUMMARY	11	APPLICATION SUMMARY	The Proponent's conclusions regarding the potential for significant adverse effects on Valued Components (VC).	1	APPLICATION SUMMARY	n/a	n/a	n/a

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n/a	8	Table of Concordance	A Table of Concordance will be included in the Application. The Table of Concordance will demonstrate where the requirements in the AIR are found in the Application, with volume, section, and following the format of Table 1. A well-constructed Table of Concordance will assist in a timely Application evaluation to determine whether the Application contains the required information.	1	Table of Concordance	n/a	n/a	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
PART A	13	PART A - INTRODUCTION	PART A - INTRODUCTION	1	PART A - INTRODUCTION	n/a	n/a	n/a
1	13	OVERVIEW OF PROJECT PROPONENT DESCRIPTION	OVERVIEW OF PROJECT PROPONENT DESCRIPTION	1	1.0 Overview of Project Proponent Description	n/a	1. Description of the Tenas Project	n/a
1	13	OVERVIEW OF PROJECT PROPONENT DESCRIPTION	The Application will:	1	See below	See below	See below	See below
1	13	OVERVIEW OF PROJECT PROPONENT DESCRIPTION	Describe the Proponent, including history, type of company or organization, affiliations;	1	1.0 Overview of Project Proponent Description	n/a	1.3 Project Proponent	n/a
1	13	OVERVIEW OF PROJECT PROPONENT DESCRIPTION	Provide contact information for the Proponent; and	1	1.0 Overview of Project Proponent Description	n/a	1.4 Project Key Contacts	n/a
1	13	OVERVIEW OF PROJECT PROPONENT DESCRIPTION	Include a list of parties involved in the preparation of the Application, their qualifications, and the section(s) for which they were responsible.	1	1.0 Overview of Project Proponent Description	n/a	1.7 Consultant and Proponent Qualifications	1.0-B Tenas Project Consultant and Proponent Qualifications
1.1	13	Description of Project	Description of Project	1	1.0 Overview of Project Proponent Description	n/a	1. Description of the Tenas Project	n/a
1.1	13	Description of Project	An initial description of the Project is included in the Project Description (TCL 2018) at https://projects.eao.gov.bc.ca/api/document/5be1e5e7c4337d0024da316e/fetch	1	1.0 Overview of Project Proponent Description	n/a	https://projects.eao.gov.bc.ca/api/document/5be1e5e7c4337d0024da316e/fetch	n/a
1.1	13	Description of Project	The Application will:	1	See below	See below	See below	See below
1.1	13	Description of Project	Describe the purpose of the Project from the perspective of the Proponent, and identify whether the objectives of the Project relate to any broader private or public sector policies, plans, or programs;	1	1.0 Overview of Project Proponent Description	n/a	1.1 Project Overview; 1.5 Telkwa Coal Limited (TCL) Corporate Policies; 1.6 Purpose of the Project and Relationship to Existing Policies, Plans and Programs	See below
1.1	13	Description of Project	Describe the location of the Project and the latitude and longitude coordinates of the site and include maps showing both regional context (identifying nearby communities and geographic features) and the specific location of the Project;	1	1.0 Overview of Project Proponent Description	n/a	1.2 Project Location Figure 1.2-1: Project location; Figure 1.2-2: Tenas Project Area	1.0-A Select Tenas Project Full Sized 11' x 17' Figures
1.1	13	Description of Project	Describe the location of the Project relative to Indigenous Groups' asserted traditional territories, and/or Treaty Nation territories;	1	1.0 Overview of Project Proponent Description	n/a	1.2 Project Location Figure 1.2-3: Wet'suwet'en Traditional Territories	n/a
1.1	13	Description of Project	Describe all phases of the Project, including their duration and proposed scheduling;	1	1.0 Overview of Project Proponent Description	n/a	1.9.4 Project Phases	n/a
1.1	13	Description of Project	Describe all on-site and off-site components associated with the Project, with figures;	1	1.0 Overview of Project Proponent Description	n/a	1.10 Project Components Summary; Figure 1.10-1: Site Plan; Figure 1.9-2: Project Components; Figure 1.10-3: Project-related Mine Infrastructure Complex (MIC) detailed view; 1.11 Open Pit; <i>through</i> 1.22 Management Ponds (Tailings Storage Facility) and Control Pond Aspects; Figures 1.11-1 through 1.22-23	See ***1 at bottom of this table

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1.1	13	Description of Project	Describe the activities associated with the components and phases of the Project, with figures;	1	1.0 Overview of Project Proponent Description	n/a	1.10 Project Components Summary; Figure 1.10-1: Site Plan; Figure 1.9-2: Project Components; Figure 1.10-3: Project-related Mine Infrastructure Complex (MIC) detailed view; 1.11 Open Pit; <i>through</i> 1.22 Management Ponds (Tailings Storage Facility) and Control Pond Aspects; Figures 1.11-1 through 1.22-23	See ***1 at bottom of this table
1.1	13	Description of Project	Discuss the relevant history of the Project, including exploratory or investigative history;	1	1.0 Overview of Project Proponent Description	n/a	1.8 History, Geology, and Resources; Figures 1.8-1 <i>through</i> 1.8-24	1.0-C TCL, Tenas Project Geological Cross Sections
1.1	13	Description of Project	Summarize existing and planned land and water use that overlaps or may be potentially affected by the Project components	1	1.0 Overview of Project Proponent Description	n/a	5. Land Use	n/a
1.1	13	Description of Project	Land ownership (e.g., private land, provincial Crown land, federal land [including Indian Reserves], Indigenous title);	1	1.0 Overview of Project Proponent Description	n/a	5.2 Land Ownership; Figure 5.2-1: Land Ownership	n/a
1.1	14	Description of Project	Local government zoning or plans;	1	1.0 Overview of Project Proponent Description	n/a	5.3 Local Government Zoning or Plans	n/a
1.1	14	Description of Project	Tenures (municipal, provincial, federal), licenses, permits or other authorizations;	1	1.0 Overview of Project Proponent Description	n/a	5.4 Tenures, Licenses, Permits or Other Authorizations	n/a
1.1	14	Description of Project	Non-tenured current land uses;	1	1.0 Overview of Project Proponent Description	n/a	5.5 Non-tenured Current Land Uses	n/a
1.1	14	Description of Project	Current and planned land use plans;	1	1.0 Overview of Project Proponent Description	n/a	5.6 Current and planned land use plans	n/a
1.1	14	Description of Project	Provincial land use plans (e.g., Land and Resource Management Plans) and provincial land use designations (e.g., Agricultural Land Reserve [ALR], Old Growth Management Areas, <i>Forests and Range Practices Act</i> [Prov BC 2002d] designations) and provincial land use management objectives;	1	1.0 Overview of Project Proponent Description	n/a	5.7 Provincial Land Use Plans and Provincial Land Use Designations	n/a
1.1	14	Description of Project	Any other development or activities, directly related to the Project or not;	1	1.0 Overview of Project Proponent Description	n/a	5.8 Any Other Development or Activities, Directly Related to the Project or Not	n/a
1.1	14	Description of Project	Maps showing location of other uses referenced above in relation to the Project; and	1	1.0 Overview of Project Proponent Description	n/a	Figure 5.8-1: Projects and activities included in the cumulative effects assessment (CEA)	n/a

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1.1	14	Description of Project	References to the Application section that assesses land use and potential overlaps/impacts in more detail.	1	1.0 Overview of Project Proponent Description	n/a	5.3 Local Government Zoning or Plans; <i>through</i> 5.8 Any Other Development or Activities, Directly Related to the Project or Not	n/a
				4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	n/a	n/a
1.1	14	Description of Project	Describe the Project's economic benefits;	1	1.0 Overview of Project Proponent Description	n/a	3. Project Benefits	n/a
1.1	14	Description of Project	Capital construction cost estimates, including:	1	1.0 Overview of Project Proponent Description	n/a	3.1 Capital Costs	n/a
1.1	14	Description of Project	Breakdown of costs (e.g., land, buildings, equipment) associated with the Project;	1	1.0 Overview of Project Proponent Description	n/a	3.1 Capital Costs	n/a
1.1	14	Description of Project	Estimated operating costs over the life of the Project, including breakdown of costs by category (e.g., labour, supplies and materials, administration); and	1	1.0 Overview of Project Proponent Description	n/a	3.2 Operating Costs	n/a
1.1	14	Description of Project	Estimated costs for Decommissioning and Reclamation and Post-closure.	1	1.0 Overview of Project Proponent Description	n/a	3.3 Decommissioning, Reclamation, and Closure Costs	n/a
1.1	14	Description of Project	Employment estimates including:	1	1.0 Overview of Project Proponent Description	n/a	3.4 Direct Employment; 3.5 Induced and Indirect Employment	n/a
1.1	14	Description of Project	Direct employment to be created, by job category by Project phase, in number of person year jobs for the Construction, and Decommissioning and Reclamation phases and full-time equivalent jobs for the Operation phase.	1	1.0 Overview of Project Proponent Description	n/a	3.4 Direct Employment	n/a
1.1	14	Description of Project	Average wages for positions in the Construction and Operation phases;	1	1.0 Overview of Project Proponent Description	n/a	3.4 Direct Employment	n/a
1.1	14	Description of Project	Breakdown of jobs that will be filled from local, provincial, or national labour markets;	1	1.0 Overview of Project Proponent Description	n/a	3.4 Direct Employment	n/a
1.1	14	Description of Project	Indirect and induced employment to be generated, by Project phase; and	1	1.0 Overview of Project Proponent Description	n/a	3.5 Induced and Indirect Employment	n/a
1.1	14	Description of Project	Information about an employment strategy, if any.	1	1.0 Overview of Project Proponent Description	n/a	3.6 Employment Strategy	n/a
1.1	15	Description of Project	Contractor supply services estimates including:	1	1.0 Overview of Project Proponent Description	n/a	3.7 Contractors and Contracts	n/a
1.1	15	Description of Project	Value of supply of service contracts expected, broken down at the local, provincial, and national level, by Project phase;	1	1.0 Overview of Project Proponent Description	n/a	3.7 Contractors and Contracts	n/a
1.1	15	Description of Project	Value of supply of service contracts expected, by Project phase; and	1	1.0 Overview of Project Proponent Description	n/a	3.7 Contractors and Contracts	n/a
1.1	15	Description of Project	Information about a local purchasing strategy, if any.	1	1.0 Overview of Project Proponent Description	n/a	3.7 Contractors and Contracts	n/a

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1.1	15	Description of Project	Annual government revenues, by type (e.g., income tax, licence rent, property tax, mineral tax) and jurisdiction (e.g., local, provincial, federal), for all phases of the Project;	1	1.0 Overview of Project Proponent Description	n/a	3.8 Government Revenues	n/a
1.1	15	Description of Project	Any benefits the Project may have to the five pillars of assessment (Environmental, Economic, Social, Health and Heritage); and	1	1.0 Overview of Project Proponent Description	n/a	3.9 Additional Five Pillar Benefits	n/a
1.1	15	Description of Project	All Canadian dollar estimates will be provided in real dollars, with an explanation of how they are measured (e.g., discount rates).	1	1.0 Overview of Project Proponent Description	n/a	3.10 Project Economic Assumptions and References	n/a
1.2	15	Applicable Authorizations	Applicable Authorizations	1	1.0 Overview of Project Proponent Description	n/a	4. Applicable Authorizations	n/a
1.2	15	Applicable Authorizations	A list of required authorizations, to the extent that was known at the time, is available in Section 5.6 Federal, Provincial, and Municipal Authorizations of the Project Description, available at https://projects.eao.gov.bc.ca/api/public/document/5be1e5e7c4337d0024da316e/download/Tenas%20Project%20Description_November%202018_Final%20%28reduced%20size%29.pdf .	1	1.0 Overview of Project Proponent Description	n/a	4. Applicable Authorizations	n/a
1.2	15	Applicable Authorizations	The Application will:	1	See below	See below	See below	See below
1.2	15	Applicable Authorizations	List in table format (see Table 2 below) all applicable licenses, permits and/or approvals that are already received or required for the phases of the Project, and the associated responsible regulatory body; and	1	1.0 Overview of Project Proponent Description	n/a	Table 4.4 1: Preliminary List of Federal Authorizations and Permits Likely Required for the Project; Table 4.4 2: Preliminary List of Provincial Authorizations and Permits Likely Required for the Project	n/a
1.2	15	Applicable Authorizations	State if the Proponent has or intends to request concurrent permitting under the Act pursuant to the Concurrent Approval Regulation (BC Reg. 371/2002) (Prov BC 2002b).	1	1.0 Overview of Project Proponent Description	n/a	4.3 Concurrent Permitting Versus Coordinated Authorizations	n/a
1.2	15	Applicable Authorizations	Proponent will seek concurrent permitting under the Act pursuant to the Concurrent Approval Regulation (BC Reg. 371/2002) (Prov BC 2002b).	1	1.0 Overview of Project Proponent Description	n/a	4.3 Concurrent Permitting Versus Coordinated Authorizations	n/a

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1.2	15	Applicable Authorizations	<table><tr><th colspan="3">Table 2: Authorization Table</th></tr><tr><th>Name of Authorization</th><th>Statute and Authorizing Agency</th><th>Description Need for Authorization</th></tr><tr><td>[Name]</td><td>[Statute, Level of Government]</td><td>[Description]</td></tr><tr><td>[Name]</td><td>[Statute, Level of Government]</td><td>[Description]</td></tr><tr><td>[Name]</td><td>[Statute, Level of Government]</td><td>[Description]</td></tr></table>	Table 2: Authorization Table			Name of Authorization	Statute and Authorizing Agency	Description Need for Authorization	[Name]	[Statute, Level of Government]	[Description]	[Name]	[Statute, Level of Government]	[Description]	[Name]	[Statute, Level of Government]	[Description]	1	1.0 Overview of Project Proponent Description	n/a	Table 4.4 1: Preliminary List of Federal Authorizations and Permits Likely Required for the Project; Table 4.4 2: Preliminary List of Provincial Authorizations and Permits Likely Required for the Project	n/a
Table 2: Authorization Table																							
Name of Authorization	Statute and Authorizing Agency	Description Need for Authorization																					
[Name]	[Statute, Level of Government]	[Description]																					
[Name]	[Statute, Level of Government]	[Description]																					
[Name]	[Statute, Level of Government]	[Description]																					
1.3	16	Alternative Means of Carrying out the Project	Alternative Means of Carrying out the Project	1	1.0 Overview of Project Proponent Description	n/a	6. Alternative Means of Carrying out the Project	n/a															
1.3	16	Alternative Means of Carrying out the Project	The Application will include:	1	See below	See below	See below	See below															
1.3	16	Alternative Means of Carrying out the Project	An assessment of the alternative means of carrying out the Project that are technically and economically feasible including, but not limited to, the alternatives identified in the AIR;	1	1.0 Overview of Project Proponent Description	n/a	6. Alternative Means of Carrying Out the Project	n/a															
1.3	16	Alternative Means of Carrying out the Project	This includes an alternative means assessment for waste management of both Potentially Acid Generating (PAG) and non-PAG materials. PAG materials include processed rock (coarse coal rejects, fine coal rejects, and tailings) and mine generated PAG material (EAO 2015).	1	1.0 Overview of Project Proponent Description	n/a	6.4 Alternative Means of the Project; 6.4.12 Potentially Acid Generating (PAG) Management Methodology; 6.4.13 Water Cover Methodology	1.0-Q SRK, Tenas Project Pag Management Alternatives Assessment Memo															
1.3	16	Alternative Means of Carrying out the Project	The rationale and criteria used to select the proposed means of undertaking the project; and	1	1.0 Overview of Project Proponent Description	n/a	6.2 Purpose of the Project; 6.3 Review of Alternatives	n/a															
1.3	16	Alternative Means of Carrying out the Project	The methodology and criteria used in the assessment of alternatives.	1	1.0 Overview of Project Proponent Description	n/a	6.3 Alternative Means Rating Methodology	n/a															
1.3	16	Alternative Means of Carrying out the Project	Project components have been designed to minimize potential impacts on the environment and nearby communities. Further alternatives may be identified and reviewed during the EA process. Please also refer to section 1.4 of the AIR.	1	1.0 Overview of Project Proponent Description	n/a	6.4 Alternative Means of the Project	n/a															
1.3	16	Alternative Means of Carrying out the Project	The following criteria were considered when assessing alternatives:	1	See below	See below	See below	See below															
1.3	16	Alternative Means of Carrying out the Project	Effects on the natural environment;	1	1.0 Overview of Project Proponent Description	n/a	6.3 Alternative Means Rating Methodology; 6.4 Alternative Means of the Project	n/a															

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1.3	16	Alternative Means of Carrying out the Project	Technical applicability, system integrity, and reliability	1	1.0 Overview of Project Proponent Description	n/a	6.3 Alternative Means Rating Methodology; Table 6.3-1 Criteria Used in the Review of the Alternatives; 6.4 Alternative Means of the Project	n/a
1.3	16	Alternative Means of Carrying out the Project	Cost effectiveness;	1	1.0 Overview of Project Proponent Description	n/a	6.3 Alternative Means Rating Methodology; Table 6.3-1 Criteria Used in the Review of the Alternatives; 6.4 Alternative Means of the Project	n/a
1.3	16	Alternative Means of Carrying out the Project	Community input and effects on human health.	1	1.0 Overview of Project Proponent Description	n/a	6.3 Alternative Means Rating Methodology; Table 6.3-1 Criteria Used in the Review of the Alternatives; 6.4 Alternative Means of the Project	n/a
1.3	16	Alternative Means of Carrying out the Project	Alternative means of carrying out the Project that will be considered in the Application include:	1	See below	See below	See below	See below
1.3	16	Alternative Means of Carrying out the Project	Mining Method:	1	1.0 Overview of Project Proponent Description	n/a	6.4.1 Mining Method	n/a
1.3	16	Alternative Means of Carrying out the Project	Underground room and pillar; or	1	1.0 Overview of Project Proponent Description	n/a	6.4.1 Mining Method	n/a
1.3	16	Alternative Means of Carrying out the Project	Surface;	1	1.0 Overview of Project Proponent Description	n/a	6.4.2 Surface Mining Methodology	n/a
1.3	16	Alternative Means of Carrying out the Project	Production rate;	1	1.0 Overview of Project Proponent Description	n/a	6.4.3 Production Rate for Project	n/a
1.3	16	Alternative Means of Carrying out the Project	Equipment selection;	1	1.0 Overview of Project Proponent Description	n/a	6.4.5 Minesite Equipment Selection	n/a
1.3	16	Alternative Means of Carrying out the Project	Plant layout and footprint:	1	1.0 Overview of Project Proponent Description	n/a	6.4.6 Coal Processing Plant (CPP) Location	n/a
1.3	16	Alternative Means of Carrying out the Project	Plant location;	1	1.0 Overview of Project Proponent Description	n/a	6.4.6 Coal Processing Plant (CPP) Location	n/a
1.3	17	Alternative Means of Carrying out the Project	Parking lot;	1	1.0 Overview of Project Proponent Description	n/a	6.4.20 Employee Parking Lot Location	n/a
1.3	17	Alternative Means of Carrying out the Project	Office;	1	1.0 Overview of Project Proponent Description	n/a	6.4.14 Administration and Mine Dry Location	n/a
1.3	17	Alternative Means of Carrying out the Project	Dry location;	1	1.0 Overview of Project Proponent Description	n/a	6.4.14 Administration and Mine Dry Location	n/a
1.3	17	Alternative Means of Carrying out the Project	Mine access / employee transport;	1	1.0 Overview of Project Proponent Description	n/a	6.4.19 Employee Transport	n/a
1.3	17	Alternative Means of Carrying out the Project	Plant flowsheet;	1	1.0 Overview of Project Proponent Description	n/a	6.4.15 CPP Flowsheet	n/a

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1.3	17	Alternative Means of Carrying out the Project	Coal storage, transport to rail, transport to port;	1	1.0 Overview of Project Proponent Description	n/a	6.4.4 Processed Coal Transport from Coal Processing Plant (CPP) to the Port; 6.4.6 Coal Processing Plant (CPP) Location; 6.4.7 Rail Infrastructure Location; 6.4.8 Processed Coal Transport Between the Coal Processing Plant and Rail Infrastructure; 6.4.8 Processed Coal Transport Between the Coal Processing Plant and Rail Infrastructure; 6.4.9 Processed Coal Truck Haul and Project Access; 6.4.10 Coal Storage at Rail Infrastructure	n/a
1.3	17	Alternative Means of Carrying out the Project	Rail Infrastructure;	1	1.0 Overview of Project Proponent Description	n/a	6.4.7 Rail Infrastructure Location	n/a
1.3	17	Alternative Means of Carrying out the Project	Mined and processed rock management (PAG / non-potentially acid generating (non-PAG) materials and water cover and discharge);	1	1.0 Overview of Project Proponent Description	n/a	6.4.11 Fine Processed Rock Dewatering; 6.4.12 Potentially Acid Generating (PAG) Management Methodology; 6.4.13 Water Cover Methodology	n/a
1.3	17	Alternative Means of Carrying out the Project	Water source for processing; and	1	1.0 Overview of Project Proponent Description	n/a	6.4.16 Process Water Supply	n/a
1.3	17	Alternative Means of Carrying out the Project	Potable water source and sewage treatment.	1	1.0 Overview of Project Proponent Description	n/a	6.4.17 Potable Water Supply; 6.4.18 Sewage Treatment Methodology	n/a
1.4	17	Alternatives to the Project	Alternatives to the Project	1	1.0 Overview of Project Proponent Description	n/a	7. Alternatives to the Project	n/a
1.4	17	Alternatives to the Project	The Application will include:	1	See below	See below	See below	See below
1.4	17	Alternatives to the Project	An assessment of the alternatives to the Project that were technically and economically feasible, including, but not limited to, the alternatives identified in this AIR.	1	1.0 Overview of Project Proponent Description	n/a	7.1 Assessment of Alternatives	n/a
1.4	17	Alternatives to the Project	The Application will provide a description of the Project purpose and rationale to meet global demand for economically viable steelmaking coal and alternatives to the proposed Project will be assessed on their technical and economic feasibility to meet the Project purpose.	1	1.0 Overview of Project Proponent Description Project Overview	n/a	7.2.1 Global Demand for Steel; 7.3 Alternative Steel Manufacturing Process	n/a
1.4	17	Alternatives to the Project	Alternatives that will be considered in the Application are:	1	See below	See below	See below	See below

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1.4	17	Alternatives to the Project	No project;	1	1.0 Overview of Project Proponent Description Project Overview	n/a	7.2 No Project	n/a
1.4	17	Alternatives to the Project	Consideration for alternate production rates of steelmaking quality coal; and	1	1.0 Overview of Project Proponent Description Project Overview	n/a	7.3 Alternative Steel Manufacturing Process	n/a
1.4	17	Alternatives to the Project	Development of other steelmaking coal resources in BC.	1	1.0 Overview of Project Proponent Description Project Overview	n/a	7.5 Development of Alternative Steelmaking Coal Resource	n/a
1.4	17	Alternatives to the Project	Based on an evaluation of the potential development of several other projects, and the positive results for pre-feasibility and feasibility studies for the Project, the Proponent is proceeding with the Project.	1	1.0 Overview of Project Proponent Description Project Overview	n/a	7.7 Go-forward Statement	n/a

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2	18	ENVIRONMENTAL ASSESSMENT PROCESS	ENVIRONMENTAL ASSESSMENT PROCESS		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	n/a	n/a
2.1	18	Provincial Environmental Assessment Process	Provincial Environmental Assessment Process		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	n/a	n/a
2.1	18	Provincial Environmental Assessment Process	The Application will include:	n/a	See below	See below	See below	n/a
2.1	18	Provincial Environmental Assessment Process	A statement that the Project is subject to review under the Act, identifying the trigger(s) for the review under the Act;		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	2. Environmental Assessment (EA) Process	n/a
2.1	18	Provincial Environmental Assessment Process	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;		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	2. Environmental Assessment (EA) Process	n/a
2.1	18	Provincial Environmental Assessment Process	A table documenting applicable milestones, including, but not limited to, issuance of Section 10 Order, Section 11 Order, 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;		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	Table 2 1: Regulatory Milestones	n/a

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2.1	18	Provincial Environmental Assessment Process	A list of the government agencies and Indigenous 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. (The Proponent will cross-reference, as appropriate, other sections of the Application that deal further with consultation and issues raised); and		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	2.1.1 List of Reviewing Agencies; Table 2.1 1: Summary of Key Issues Raised and Status of Issue Resolution; 2.1.2 Public Participation; Part C - Wet'suwet'en Rights and Interests; Part D - Public Consultation	2.0-A Tenas Project Valued Components Working Group Comment Tracker; 2.0-B Draft Application Information Requirements – Working Group Issues Tracking Table
2.1	18	Provincial Environmental Assessment Process	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 sections of the Application that deal further with consultation and issues raised).		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	2.1.2 Public Participation Part D - Public Consultation	2.0-A Tenas Project Valued Components Working Group Comment Tracker; 2.0-B Draft Application Information Requirements – Working Group Issues Tracking Table n/a

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2.2	18	Federal Environmental Assessment Process	Federal Environmental Assessment Process		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	2.2 Federal Environmental Assessment (EA) Process	n/a
2.2	18	Federal Environmental Assessment Process	The CEAA 2012 (Gov BC 2012a) does not apply to the Project because the proposed production capacity is under the 3,000 tonnes per day threshold for a designated project, as specified in the Regulations Designating Physical Activities (GOC 2012b). Confirmation was received from the CEAA on December 12, 2018 (CEAA 2018).		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	2.2 Federal Environmental Assessment (EA) Process	n/a
2.2	18	Federal Environmental Assessment Process	On August 28, 2019, the IAA 2019 (Gov BC 2019) came into force. The IAA 2019 creates the new Impact Assessment Agency of Canada and repeals the CEAA 2012. An EA under the IAA is not required for the Project because the proposed production capacity is well under the 5,000 tonnes per day coal production threshold for the construction, operation, decommissioning and abandonment of a new coal mine as defined in 16(d) of the Regulations Designating Physical Activities (GOC 2012b). IAAC confirmed on June 1, 2020 that the Project is not reviewable under the IAA (GOC 2019).		2.0 Environmental Assessment (EA) Process	1 Provincial and EA Federal Process	2.2 Federal Environmental Assessment (EA) Process	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
PART B	20	PART B – ASSESSMENT OF ENVIRONMENTAL, ECONOMIC, SOCIAL, HERITAGE AND HEALTH EFFECTS	PART B – ASSESSMENT OF ENVIRONMENTAL, ECONOMIC, SOCIAL, HERITAGE AND HEALTH EFFECTS	2	PART B – ASSESSMENT OF ENVIRONMENTAL, ECONOMIC, SOCIAL, HERITAGE AND HEALTH EFFECTS	n/a	n/a	n/a
3	20	ASSESSMENT METHODOLOGY	ASSESSMENT METHODOLOGY	2	3.0 Assessment Methodology	1 Assessment Methodology	n/a	n/a
3	20	ASSESSMENT METHODOLOGY	This section of the Application will describe the methods used to assess the potential adverse effects of the Project. The assessment methodology will be based on the EAO's Guideline for the Selection of Valued Components and Assessment of Potential Effects (EAO 2013b). The guideline provides standardized methods for completing EAs under the EAO that will meet the requirements of the Act.	2	3.0 Assessment Methodology	1 Assessment Methodology	n/a	n/a
3.1	20	Issues Scoping and Selection of Valued Components	Issues Scoping and Selection of Valued Components	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	20	Issues Scoping and Selection of Valued Components	During initial issues scoping, the Proponent compiled a list of candidate VCs that considered the five pillars requiring assessment under the Act: environmental, economic, social, heritage and health. Identifying candidate VCs involved the analysis of available information to identify issues under the five pillars that may be related to a reviewable project. Previous EAs in northern BC were reviewed and provided insight to the issues, that are generally indicative of the local and regional values of interest to the public, Indigenous groups and stakeholders in the area.	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	20	Issues Scoping and Selection of Valued Components	Candidate VCs were screened to exclude potential VCs that are not relevant to the Project, are not present in the Project Area, or could be better represented by, or included in, the assessment of another VC. These candidate VCs were not carried forward. Candidate VCs that were carried forward were further screened by values in one or more of the following four values categories:	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	20	Issues Scoping and Selection of Valued Components	Regulatory Importance – Candidate VC is associated with regulatory requirements. Agency input for VC selection is ongoing and additional input is anticipated during the period before the Application is formally submitted.	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	20	Issues Scoping and Selection of Valued Components	Indigenous group consideration – Candidate VC has been identified by Indigenous Groups of importance or concern. Input from Indigenous groups is ongoing.	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	20	Issues Scoping and Selection of Valued Components	Conservation or scientific importance – Candidate VC is identified in federal or provincial databases or legislation applies to species and guild.	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a

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3.1	20	Issues Scoping and Selection of Valued Components	Significance to other stakeholders, including local government – Candidate VC identified based on professional experience and expressed through consultation programs.	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	20	Issues Scoping and Selection of Valued Components	Candidate VCs that have the potential to interact with the Project and are likely to be present near the Project were screened based on discipline-specific filters to identify those that represent the key values and priorities of government, Indigenous Groups, the public and other stakeholders.	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	20-21	Issues Scoping and Selection of Valued Components	Table 3 identifies the VCs and subcomponents that will be assessed for potential Project-induced adverse effects. The term “NA” indicates that subcomponents are not used for that VC. Each of the effects assessments in Sections 4, 5, 6, 7, and 8 of the Application will address linkages among VCs. The linkage column in Table 3 identifies other VCs that may support or be supported by each VC.	2	3.0 Assessment Methodology	1 Assessment Methodology	Table 2.4-1: Valued Components, Subcomponents, Indicators, and Linkages	n/a
3.1	21-26	Issues Scoping and Selection of Valued Components	Table 3: Valued Components and Subcomponents for the Tenas Project	2	3.0 Assessment Methodology	1 Assessment Methodology	Table 2.4-1: Valued Components, Subcomponents, and Linkages	n/a
3.1	26	Issues Scoping and Selection of Valued Components	The process used to select the VCs and the supporting rationale, and the methodology for assessing potential Project-related effects on the existing condition of each VC, as appropriate, is provided in the Valued Component Scoping Document (TCL 2019).	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	26	Issues Scoping and Selection of Valued Components	The Valued Component Scoping Document (TCL 2019) was submitted in draft to the EAO on December 28, 2018. Changes were made based on EAO input and the revised draft was distributed to the Advisory Working Group members on February 26, 2019, for review and comment. Comments received from EAO and the Advisory Working Group members informed the refinement of the VCs in Table 3 . The selected VCs in this AIR represent the input provided through this consultation.	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4 Issues Scoping	n/a
3.1	26	Issues Scoping and Selection of Valued Components	The Application will summarize the process and methodologies used to identify and select the VCs for assessment. The Application will also include the rationale for any differences in the list of VCs presented in the Application from those listed in the final AIR.	2	3.0 Assessment Methodology	1 Assessment Methodology	2.4.1 Selection of Valued Components (VCs); Table 2.4-1: Valued Components, Subcomponents, Indicators, and Linkages	n/a

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3.2	26	Assessment Boundaries	Assessment Boundaries	2	3.0 Assessment Methodology	1 Assessment Methodology	3. Assessment Boundaries	n/a
3.2.1	26	<i>Spatial, Temporal, Administrative and Technical Boundaries</i>	<i>Spatial, Temporal, Administrative and Technical Boundaries</i>	2	3.0 Assessment Methodology	1 Assessment Methodology	<i>3.1 Spatial Boundaries; 3.2 Temporal Boundaries; 3.3 Administrative; 3.4 Technical Boundaries</i>	n/a
3.2.1	26	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 VCs will be included in the appropriate VC sections of this document 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 final AIR.	2	3.0 Assessment Methodology	1 Assessment Methodology	3.1 Spatial Boundaries; 3.2 Temporal Boundaries; 3.3 Administrative; 3.4 Technical Boundaries	n/a
3.2.1	26-27	Spatial, Temporal, Administrative and Technical Boundaries	Assessment boundaries define the limits of the effects assessment for VCs. Boundaries encompass areas within and times when the Project is expected to interact with the VCs, as well as any constraints due to political, social, and economic realities, and limitations in predicting or measuring changes. Each effects assessment section in the Application describes spatial and temporal boundaries and the rationale for their selection, as well as any applicable administrative and technical boundaries.	2	3.0 Assessment Methodology	1 Assessment Methodology	3.1 Spatial Boundaries; 3.2 Temporal Boundaries; 3.3 Administrative; 3.4 Technical Boundaries	n/a
3.2.1	27	Spatial, Temporal, Administrative and Technical Boundaries	Spatial assessment boundaries are identified for each VC based on the spatial characteristics of the Project and the component (e.g., location, distribution, range), as well as the areas within which Project VC interactions are expected to occur. When determining the spatial boundary, where available and applicable, community knowledge and Indigenous Traditional Ecological Knowledge (TEK), information on current land and resource use by Indigenous Groups, and other pertinent ecological, technical, social, and cultural considerations, as well as input from government, and the public will be considered.	2	3.0 Assessment Methodology	1 Assessment Methodology	3.1 Spatial Boundaries; for VC specific boundaries, also refer to Spatial Boundaries heading in subsection 3. Assessment of Boundaries of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.2.1	27	Spatial, Temporal, Administrative and Technical Boundaries	Temporal boundaries will be identified for the VC assessments and will encompass periods when the Project is expected to affect VCs. Temporal boundaries will reflect those periods during which planned Project activities are reasonably expected to potentially affect a VC. These boundaries are adjusted as appropriate to reflect seasonal and annual variations or biophysical constraints related to a VC. Proposed temporal boundaries are based on the timing of the different phases of the Project.	2	3.0 Assessment Methodology	1 Assessment Methodology	3.2 Temporal Boundaries; for VC specific boundaries, also refer to Temporal Boundaries heading in subsection 3. Assessment of Boundaries of each VC chapter within Sections 4.0-8.0	n/a
3.2.1	27	Spatial, Temporal, Administrative and Technical Boundaries	As appropriate, the Application will identify the relevant administrative and technical boundaries for each VC and provide an explanation of their relevance to the assessment boundaries. Administrative boundaries arise when political, economic, or social issues, as well as fiscal or other resourcing issues influence the environmental assessment. Administrative boundaries do not apply to every assessment, but where identified, the nature of the administrative boundaries and their effect on the assessment is documented.	2	3.0 Assessment Methodology	1 Assessment Methodology	3.3 Administrative Boundaries; for VC specific boundaries, also refer to Administrative Boundaries heading in subsection 3. Assessment of Boundaries of each VC chapter within Sections 4.0-8.0	n/a
3.2.1	27	Spatial, Temporal, Administrative and Technical Boundaries	Technical boundaries arise when there is a limit in the ability to predict a project's effects. This may occur when sampling is constrained by legal restrictions, when large geographical settings limit the ability of proper sampling, or when modelling constraints impose limitations on the analysis. Technical boundaries do not apply to every assessment, but in cases where technical boundaries have been identified, the nature of the technical boundaries and their effect on the assessment are documented.	2	3.0 Assessment Methodology	1 Assessment Methodology	3.4 Technical Boundaries; for VC specific boundaries, also refer to Technical Boundaries heading in subsection 3. Assessment of Boundaries of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.3	27	Existing Conditions	Existing Conditions	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions	n/a
3.3	27	Existing Conditions	For each VC section, (Environmental, Economic, Social, Heritage and Health), the Application will include:	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a
3.3	27	Existing Conditions	A description of the existing (or baseline) conditions within the study area in sufficient detail to enable potential Project-VC interactions to be identified, understood, and assessed;	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a
3.3	27	Existing Conditions	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;	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a
3.3	27	Existing Conditions	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 Project or other project and/or activities in the area;	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.3	27-28	Existing Conditions	An explanation of if and how other past and present projects and activities in the study area have affected or are affecting each VC (further described in the Cumulative Effects Assessment section 3.8 of this AIR following the Guideline for the Selection of Valued Components and Assessment of Potential Effects [EAO 2013b]);	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a
3.3	28	Existing Conditions	Documentation of the methods and data sources used to compile information on existing (or baseline) conditions, including any standards or guidelines followed;	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a
3.3	28	Existing Conditions	Where additional project and VC-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; and	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a
3.3	28	Existing Conditions	Description of what TEK, including Indigenous Traditional Knowledge, was used in the VC assessment.	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.3	28	Existing Conditions	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 effects assessment.	2	3.0 Assessment Methodology	1 Assessment Methodology	4. Existing Conditions; for VC specific details, also refer to subsection 4. Existing Conditions of each VC chapter within Sections 4.0-8.0	n/a
3.4	28	Potential Effect	Potential Effects	2	3.0 Assessment Methodology	1 Assessment Methodology	5. Assessment of Project related Effects	n/a
3.4	28	Potential Effect	The Application will summarize the overall process and methodologies used to identify and assess the potential effects of the Project on the identified VCs.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.2 Potential Project-related Effects	n/a
3.4	28	Potential Effect	For each VC section, the Application will:	2	n/a	n/a	n/a	n/a
3.4	28	Potential Effect	Identify the potential interactions of the Project and the considered and selected VCs;	2	3.0 Assessment Methodology	1 Assessment Methodology	5.1 Potential Project-related Interactions; for VC specific details, also refer to subsection Potential Project-related Interactions of each VC chapter within Sections 4.0-8.0	n/a
3.4	28	Potential Effect	Identify and describe the potential adverse effects resulting from the Project; and	2	3.0 Assessment Methodology	1 Assessment Methodology	5.2 Potential Project-related Effects; for VC specific details, also refer to subsection Potential Project-related Effects of each VC chapter within Sections 4.0-8.0	n/a
3.4	28	Potential Effect	Demonstrate how feedback from Indigenous Groups, the public, stakeholders and government agencies on VC selection and assessment was incorporated, as appropriate.	2	3.0 Assessment Methodology	1 Assessment Methodology	2. Issues Scoping	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.4	28	Potential Effect	Expected Project interactions with each VC, that may result in an effect, will be described within each VC section. In the Application, these interactions will be presented in an interactions table and matrix format for ease of viewing, and to help ensure adequate identification of likely Project-VC interactions. The interactions table lists the various Project activities according to Construction, Operation, Decommissioning and Reclamation, and Post-closure phases, indicates whether there is likely to be an interaction with each VC, and describes the nature of the interaction. The interaction matrix applies a likelihood of interaction to filter the Project components and activities that will or will not result in potential effects.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.1 Potential Project-related Interactions; for VC specific details, also refer to subsection Potential Project-related Interactions, and the related interactions table of each VC chapter within Sections 4.0-8.0	n/a
3.4	28-29	Potential Effect	All Project components and activities that were determined to not interact with a VC, and will therefore not result in a potential effect, are not considered further in the assessment. For some VCs there will be no interactions with any Project activities in a particular Project phase, while for others, there may be interactions with certain Project activities within a Project phase. The Application will identify all Project activity-VC interactions and/or Project phases that were excluded from further assessment, including the methods and criteria used to justify the exclusion and input received from EAO, government agencies, Indigenous groups and the public regarding the exclusion.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.1 Potential Project-related Interactions; for VC specific details, also refer to subsection Potential Project-related Interactions, and the related interactions table of each VC chapter within Sections 4.0-8.0	n/a
3.4	29	Potential Effect	Where an interaction is identified as possible, a potential effect is identified and considered in the assessment. Assumptions regarding the potential effects are documented in each effects assessment section. Project activity-VC interactions that were identified but excluded from further assessment are clearly identified in the potential effects section of the VC section and will include the rationale to justify the exclusion.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.1 Potential Project-related Interactions; 5.2 Potential Project-related Effects; for VC specific details, also refer to subsections Potential Project-related Interactions, and Potential Project-related Effects of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.5	29	Mitigation Measures	Mitigation Measures	2	3.0 Assessment Methodology	1 Assessment Methodology	5.3 Mitigation Measures	n/a
3.5	29	Mitigation Measures	For each VC section, the Application will:	2	See below	See below	See below	n/a
3.5	29	Mitigation Measures	Describe the approach to identify and analyze mitigation measures, including any management and compensation plans proposed by the Proponent, which will be implemented to address potential effects;	2	3.0 Assessment Methodology	1 Assessment Methodology	5.3.1 Mitigation Approaches; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a
3.5	29	Mitigation Measures	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;	2	3.0 Assessment Methodology	1 Assessment Methodology	5.3.1 Mitigation Approaches; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a
3.5	29	Mitigation Measures	Describe any standard mitigation assumed or proposed to be implemented, including consideration of best management practices (BMPs), environmental management plans, environmental protection plans, contingency plans, emergency response plans, and other general practices;	2	3.0 Assessment Methodology	1 Assessment Methodology	5.3.1 Mitigation Approaches; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a
				7	13.0 Management Plans	All Chapters	n/a	n/a
3.5	29	Mitigation Measures	Clearly indicate how the mitigation measures will mitigate the potential adverse effects on the VC;	2	3.0 Assessment Methodology	1 Assessment Methodology	5.3.1 Mitigation Approaches; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.5	29	Mitigation Measures	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;	2	3.0 Assessment Methodology	1 Assessment Methodology	5.3.2 Effectiveness and Timing of Mitigation Measures; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a
3.5	29	Mitigation Measures	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;	2	3.0 Assessment Methodology	1 Assessment Methodology	5.3.2 Effectiveness and Timing of Mitigation Measures; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a
3.5	29	Mitigation Measures	Include the time required for mitigation to become effective, to enable understanding of the duration of residual effects and the temporal characteristics of reversibility; and	2	3.0 Assessment Methodology	1 Assessment Methodology	5.3.2 Effectiveness and Timing of Mitigation Measures; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a
3.5	29	Mitigation Measures	Summarize the mitigation measures for potential Project effects by Project phase and identify any mitigation measures that are in management or compensation plans.	2	4.0-8.0 Environmental, Economic, Social, Heritage, and Health Valued Components	All Chapters	5.3 Mitigation Measures; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.5	29-30	Mitigation Measures	Mitigation measures proposed to reduce or eliminate an adverse effect, or enhance a positive effect, are described in the assessment of each VC. Where possible, information is provided on the effectiveness of the proposed mitigation measure(s) in terms of the VC indicator for the effect. Mitigation measures may include monitoring to verify results, standard mitigation measures such as BMPs and/or changes to the means in which the Project will be designed, constructed, or operated. Mitigation measures will also consider TEK, where applicable and available.	2	4.0-8.0 Environmental, Economic, Social, Heritage, and Health Valued Components	All Chapters	5.3 Mitigation Measures; for VC specific details, also refer to subsection 5.3 Mitigation Measures of each VC chapter within Sections 4.0-8.0	n/a
3.6	30	Characterization of Residual Effects	Characterization of Residual Effects	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
3.6	30	Characterization of Residual Effects	The Application will describe, in a table format, the residual effects on VCs using the residual effects criteria magnitude, geographic extent, duration, frequency, reversibility, and context, as defined in EAO's Guideline for the Selection of Valued Components and Assessment of Potential Effects (EAO (2013b)). Where feasible, these criteria will be described quantitatively in the Application for each VC. When residual effects cannot be characterized quantitatively, the Application will characterize these effects qualitatively. Definitions will be provided when qualitative terms are used.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance; for VC specific details, also refer to subsection Residual Effects and Significance of Residual Effects, and related table of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.6	30	Characterization of Residual Effects	The use of any qualitative terms (e.g., low, moderate, high) 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.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4 Residual Effects and Significance of Residual Effects; for VC specific details, also refer to subsection Residual Effects and Significance of Residual Effects of each VC chapter within Sections 4.0-8.0	n/a
3.6	30	Characterization of Residual Effects	Potential residual effects that may result from the Project after mitigation measures are implemented, are described in the assessment of each VC. Standardized criteria are used to characterize residual adverse effects: magnitude, geographic extent, duration, frequency, reversibility, and context.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance; for VC specific details, also refer to subsection Residual Effects and Significance of Residual Effects, and Summary of Project-related Residual Adverse Effects and Significance of each VC chapter within Sections 4.0-8.0	n/a
3.6	30	Characterization of Residual Effects	The following generalized definitions are used as a guide for establishing specific effects characteristics for each VC:	2	See below	See below	See below	n/a
3.6	30	Characterization of Residual Effects	Magnitude: Refers to the amount of change to the existing condition of a VC, considering factors such as the uniqueness of the effect and the change relative to natural or background variation. Magnitude may be defined as low, moderate, or high.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.1 Residual Effects	n/a
3.6	30	Characterization of Residual Effects	Geographic Extent: Refers to the geographic area over which the residual effect will occur. The geographic extent of effects may be Project Area, Local Study Area (LSA), Regional Study Area (RSA), or beyond RSA.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.1 Residual Effects	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.6	30	Characterization of Residual Effects	Duration: Refers to the length of time for a VC to return to its existing condition. The duration of an effect may be short-term, medium-term, or long-term.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.1 Residual Effects	n/a
3.6	30	Characterization of Residual Effects	Frequency: Refers to the number of times that an effect might occur. The frequency of an effect may be frequent, infrequent, or continuous.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.1 Residual Effects	n/a
3.6	30	Characterization of Residual Effects	Reversibility: Refers to the degree to which existing conditions can be regained after the factors causing the effect are removed. Effects can be fully reversible, partially reversible, or irreversible.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.1 Residual Effects	n/a
3.6	30-31	Characterization of Residual Effects	Context: Primarily refers to the sensitivity and resilience of the VC to change caused by the Project. Context draws on the descriptions of the existing conditions for the VC, which reflect the cumulative effects of other Projects and activities, and on information about the natural or human-caused trends in the condition of the VC. Context will be described qualitatively.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.1 Residual Effects	n/a
3.6	31	Characterization of Residual Effects	Where feasible, these criteria are described quantitatively in each VC section. When residual effects cannot be characterized quantitatively, the effects are characterized qualitatively. Definitions are provided for all effects criteria in each VC section. The characterization of effects will inform the determination of significance of each potential residual adverse effect.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4 Residual Effects and Significance of Residual Effects; for VC specific details, also refer to subsection Residual Effects and Significance of Residual Effects of each VC chapter within Sections 4.0-8.0	n/a
3.6.1	31	Likelihood	Likelihood	2	See below	See below	See below	n/a
3.6.1	31	Likelihood	The Application will assess the likelihood for all residual adverse effects using appropriate quantitative or qualitative terms and necessary description to understand how the conclusions were reached. Definitions of any qualitative terms, such as likely, or unlikely will be provided.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.2 Likelihood	n/a
3.6.1	31	Likelihood	Each VC section describes the basis for the determination of likelihood, including the use of appropriate quantitative or qualitative terms with rationale for the conclusions. A variety of factors may influence likelihood or the probability of an adverse residual effect, such as how probable it is that a disturbance will be caused by the Project or that a specific mitigation will be successful. The residual effects described in each VC section represent the best prediction of what is likely to occur based on knowledge of the Project components and activities, the pathways of effect, and the mitigation proposed.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.2 Likelihood; for VC specific details, also refer to subsection Likelihood of each VC chapter within Sections 4.0-8.0	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.6.1	31	Likelihood	Where qualitative relative terms for likelihood such as low, moderate, or high are used, they will be clearly defined with the intent to avoid varying interpretations by different readers.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.2 Likelihood; for VC specific details, also refer to subsection Likelihood of each VC chapter within Sections 4.0-8.0	n/a
3.7	31	Proponent's Determination of Significance	Proponent's Determination of Significance	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.3 Significance Determination	n/a
3.7	31	Proponent'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.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.3 Significance Determination	n/a
3.7	31	Proponent's Determination of Significance	Each VC section discusses the potential for significant adverse residual effects that may occur after mitigation measures are implemented. The approach to determining significance includes a comparison of the current state of the VC, relative to a scenario where it is assumed the Project does not proceed, with the predicted state of the VC if the Project does proceed. The assessment describes the level of confidence in the significance determination and provides a clear rationale for each adverse residual effect determined, based on the criteria for characterization of residual effects.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.3 Significance Determination; for VC specific details, also refer to subsection Significance Determination of each VC chapter within Sections 4.0-8.0	n/a
3.7	32	Proponent's Determination of Significance	Where possible, the determination of significance considers one or more management standards; where thresholds do not exist, significance criteria are based on an applied process, including guidance established from a review of literature, precedents, learned persons, panels, and professional judgements.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.3 Significance Determination; for VC specific details, also refer to subsection Significance Determination of each VC chapter within Sections 4.0-8.0	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.7	32	Proponent's Determination of Significance	A conclusion of significance of residual adverse effects will be provided for each VC and residual effects will be rated as not significant or significant, each of which is defined for each VC in the relevant section.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.3 Significance Determination; 5.5 Summary of Project-related Residual Adverse Effects and Significance; for VC specific details, also refer to subsection Significance Determination, and Summary of Project-related Residual Adverse Effects and Significance of each VC chapter within Sections 4.0-8.0	n/a
3.7.1	32	Confidence and Risk	Confidence and Risk	2	3 Assessment Methodology	1 Assessment Methodology	5.4.4 Level of Confidence	n/a
3.7.1	32	Confidence and Risk	The Application will summarize the process and methodology used to evaluate the levels of confidence associated with residual effects predictions and, how any identified uncertainty may affect either the likelihood or the significance of the predicted residual effect. Where appropriate, the Application will also describe any measures to reduce uncertainty through monitoring, adaptive management, or other follow-up programs.	2	3 Assessment Methodology	1 Assessment Methodology	5.4.4 Level of Confidence; 8. Follow-up Strategy	n/a
3.7.1	32	Confidence and Risk	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.	2	3 Assessment Methodology	1 Assessment Methodology	5.4.4 Level of Confidence	n/a
3.7.1	32	Confidence and Risk	Each VC section includes a consideration of the level of confidence associated with the effects assessment.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.4 Level of Confidence; for VC specific details, also refer to subsection Level of Confidence of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.7.1	32	Confidence and Risk	Determination of the level of confidence considers:	2	See below	See below	See below	n/a
3.7.1	32	Confidence and Risk	Scientific certainty regarding quantification of effect, including the quality and quantity of data and understanding of effect mechanisms;	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.4 Level of Confidence	n/a
3.7.1	32	Confidence and Risk	Scientific certainty relative to effectiveness of proposed mitigation and assumptions made; and	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.4 Level of Confidence	n/a
3.7.1	32	Confidence and Risk	Professional judgment from prior experience predicting effects and developing proven mitigation measures.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.4 Level of Confidence	n/a
3.7.1	32	Confidence and Risk	Confidence predictions are defined as high, moderate, and low, and may be adjusted for some VC assessments where quantitative data and methods are available. Definitions are provided in each VC section.	2	3.0 Assessment Methodology	1 Assessment Methodology	5.4.4 Level of Confidence; for VC specific details, also refer to subsection Level of Confidence of each VC chapter within Sections 4.0-8.0	n/a
3.8	32	Cumulative Effects Assessment	Cumulative Effects Assessment	2	3.0 Assessment Methodology	1 Assessment Methodology	6. Cumulative Effects Assessment (CEA)	n/a
3.8	32	Cumulative Effects Assessment	All previously identified residual Project effects (independent of their significance) will be carried forward to the cumulative effects assessment which considers if residual adverse effects of the Project will overlap in space and time with residual adverse effects of other past, present and reasonably foreseeable projects or activities. Effects that are considered in cumulative effects assessments include those where:	2	3.0 Assessment Methodology	1 Assessment Methodology	6. Cumulative Effects Assessment (CEA)	n/a
3.8	32	Cumulative Effects Assessment	There is potential for a residual adverse effect of the Project on a VC;	2	3.0 Assessment Methodology	1 Assessment Methodology	6.1 Conducting the Cumulative Effects Assessment (CEA)	n/a
3.8	32-33	Cumulative Effects Assessment	The residual adverse effect can be demonstrated to act cumulatively with the residual adverse effects from other projects or activities on the same VC;	2	3.0 Assessment Methodology	1 Assessment Methodology	6.1 Conducting the Cumulative Effects Assessment (CEA)	n/a
3.8	33	Cumulative Effects Assessment	Other projects or activities, which represent a source of residual effects that may interact with Project-related residual effects, have been or will be carried out and are not hypothetical; and	2	3.0 Assessment Methodology	1 Assessment Methodology	6.1 Conducting the Cumulative Effects Assessment (CEA)	n/a
3.8	33	Cumulative Effects Assessment	The cumulative effect is likely to occur.	2	3.0 Assessment Methodology	1 Assessment Methodology	6.1 Conducting the Cumulative Effects Assessment (CEA)	n/a
3.8	33	Cumulative Effects Assessment	This assessment will be conducted in accordance with EAO's Guideline for the Selection of Valued Components and Assessment of Potential Effects (EAO 2013b).	2	3.0 Assessment Methodology	1 Assessment Methodology	6.1 Conducting the Cumulative Effects Assessment (CEA)	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.8.1	33	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities	n/a
3.8.1	33	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The Application will determine residual Project and cumulative effects using the steps identified in Figure 2 .	2	3.0 Assessment Methodology	1 Assessment Methodology	6. Cumulative Effects Assessment (CEA)	n/a
3.8.1	33	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	Figure 2: Steps to Determine Residual Project & Cumulative Effects	2	3.0 Assessment Methodology	1 Assessment Methodology	6. Cumulative Effects Assessment (CEA)	n/a
3.8.1	33	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The following development categories will be considered in the Application:	2	See below	See below	See below	n/a
3.8.1	33	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	Projects or activities that have already been built or conducted for which the environmental effects overlap with those of the Project (i.e., certain); and	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities; Table 6.2-1: Projects and Activities Included in the Cumulative Effects Assessment (CEA)	n/a
3.8.1	33	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	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 Project (i.e., reasonably foreseeable).	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities; Table 6.2-1: Projects and Activities Included in the Cumulative Effects Assessment (CEA)	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.8.1	33-34	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The following major projects and activities have been preliminarily identified as possible candidates for inclusion in the assessment of cumulative effects in consideration of the potential for their residual effects to interact with the residual effects of the Project. The list includes other projects and activities within the largest proposed RSA plus a buffer to accommodate projects that may be located outside the RSA but have influence within the RSA. This list will be tailored for each VC -specific cumulative effects assessment. The list has been refined based on input from the Advisory Working Group, EAO and public consultation.	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities; Table 6.2-1: Projects and Activities Included in the Cumulative Effects Assessment (CEA); Figure 6.2-1: Location of present and reasonably foreseeable projects and activities; for VC specific details, also refer to subsection Identification of Present or Reasonably Foreseeable Projects and Activities, related table, and related figure of each VC chapter within Sections 4.0-8.0	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.8.1	34-35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	Agricultural activities; Berg Copper-Molybdenum-Silver Mine; Big Onion Project; Blackjack Mineral;	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities; Table 6.2-1: Projects and Activities Included in the Cumulative Effects Assessment (CEA); Figure 6.2-1: Location of present and reasonably foreseeable projects and activities; for VC specific details, also refer to subsection Identification of Present or Reasonably Foreseeable Projects and Activities, related table, and related figure of each VC chapter within Sections 4.0-8.0	

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
			Buck Project; Bulbous Toe; Burning Daylight Quarry; Cheslatta Green Energy Project; Chuchi Lake Mine; Coastal GasLink Pipeline; Community development (including Smithers, Houston, Telkwa, Witset, Hudson's Bay Mountain Estates, and any miscellaneous developments); Decar Project; Dome Mountain Mine; Duke Property; Emerald Glacier Project; Endako Mine; Equity Silver Mine; Fenton Creek Project; Forestry activities; Fort St. James Green Energy; Fran Property; Hanson Project; Harvesting activities (including fishing, hunting, and trapping); Holy Cross Project; Huckleberry Copper-Silver Molybdenum Mine; Kenney Dam Cold Water Release Facility; Kwanika Project; Lennac Lake Project; Lorraine-Jajay Copper Mine; Maple Leaf Cannabis Production Facility; Morrison Copper/Gold Project; Mount Milligan Mine; Ogden Mountain Jade Project; Ootsa Property;					

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
			Pacific Northern Gas Looping Pipeline; Pacific Trails Pipeline; Prince George to Terrace Capacitors Project; Prince Rupert Gas Transmission; Recreation activities; Silver Hope Project; Silver Queen Property; Smithers Regional Airport Runway Expansion; Snowbird Property; Stardust Project; Telkwa to Smithers Bike Trail; Utilities activities; and Wildcat Property.					
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The proposed cut-off date for incorporating any new, reasonably foreseeable future developments in the Application's cumulative effects assessment will be six months prior to the submission of the Application. The rationale is that after this date authors do not have time to reconsider, update, and report on the potentially altered cumulative effects.	2	This is statement only – no commitment for content	n/a	n/a	n/a
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	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:	2	3.0 Assessment Methodology	1 Assessment Methodology	6.1 Conducting the Cumulative Effects Assessment (CEA);	n/a
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The spatial boundaries for the cumulative effects assessment for each VC, including maps;	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities; Figure 6.2-1: Location of present and reasonably foreseeable projects and activities	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The spatial and temporal boundaries of other developments; and	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities; Figure 6.2-1: Location of present and reasonably foreseeable projects and activities	n/a
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The potential for interaction (spatial and temporal) and linkages (overlap) of VCs with other developments.	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities	n/a
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	The Application will include:	2	See below	See below	See below	n/a
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	A table of all past, present, and reasonably foreseeable developments that will be included in the cumulative effects assessment for each VC;	2	3.0 Assessment Methodology	1 Assessment Methodology	Table 6.2-1: Projects and Activities Included in the Cumulative Effects Assessment (CEA)	n/a
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	A general description of the information sources used to identify reasonably foreseeable developments and activities; and	2	3.0 Assessment Methodology	1 Assessment Methodology	6.2 Identification of Present or Reasonably Foreseeable Projects and Activities, Table 6.2-1: Projects and Activities Included in the Cumulative Effects Assessment (CEA)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.8.1	35	Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities	A map showing the location of the projects and activities.	2	3.0 Assessment Methodology	1 Assessment Methodology	Figure 6.2-1: Location of present and reasonably foreseeable projects and activities	n/a
3.8.2	35	Conducting a Cumulative Effects Assessment	Conducting a Cumulative Effects Assessment	2	3.0 Assessment Methodology	1 Assessment Methodology	6.1 Conducting the Cumulative Effects Assessment (CEA)	n/a
3.8.2	35-36	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 (in addition to those identified to mitigate potential Project effects), and evaluation of any (residual) cumulative effects using the same methodology described above in sections 3.6 to 3.6 of this AIR. Significance of cumulative effects will be determined using characterization criteria as defined for the residual Project effects assessment (section 3.7 of this AIR).	2	3.0 Assessment Methodology	1 Assessment Methodology	6.1 Conducting the Cumulative Effects Assessment (CEA);	n/a
3.9	36	Follow-up Strategy	Follow-up Strategy	2	3.0 Assessment Methodology	1 Assessment Methodology	8. Follow-up Strategy	n/a
3.9	36	Follow-up Strategy	Where a residual adverse effect and/or cumulative effect has been identified for a specific VC, the Application will include a description of a follow-up strategy, where appropriate, that:	2	3.0 Assessment Methodology	1 Assessment Methodology	8. Follow-up Strategy; for VC specific details, also refer to subsection 8. Follow-up Strategy of each VC chapter within Sections 4.0-8.0	n/a
3.9	36	Follow-up Strategy	Identifies the measures to evaluate the accuracy of the original effects prediction;	2	3.0 Assessment Methodology	1 Assessment Methodology	8. Follow-up Strategy; for VC specific details, also refer to subsection 8. Follow-up Strategy of each VC chapter within Sections 4.0-8.0	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
3.9	36	Follow-up Strategy	Identifies the measures to evaluate the effectiveness of proposed mitigation measures; and	2	3.0 Assessment Methodology	1 Assessment Methodology	8. Follow-up Strategy; for VC specific details, also refer to subsection 8. Follow-up Strategy of each VC chapter within Sections 4.0-8.0	n/a
3.9	36	Follow-up Strategy	Proposes an appropriate strategy to apply if original predictions of effects and mitigation effectiveness are not as expected. This includes reference to further mitigation, involvement of key stakeholders, Indigenous Groups, government agencies and any other measures deemed necessary to manage the issue.	2	3.0 Assessment Methodology	1 Assessment Methodology	8. Follow-up Strategy; for VC specific details, also refer to subsection 8. Follow-up Strategy of each VC chapter within Sections 4.0-8.0	n/a
3.9	36	Follow-up Strategy	Each VC section will describe the approach to identifying and developing a monitoring and adaptive management strategy or provide a rationale where no strategy is needed (e.g., where confidence in the effects assessment is high or there is an existing monitoring program).	2	3.0 Assessment Methodology	1 Assessment Methodology	8. Follow-up Strategy; for VC specific details, also refer to subsection 8. Follow-up Strategy of each VC chapter within Sections 4.0-8.0	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.1	37	Atmospheric Environment Valued Component	Atmospheric Environment Valued Component	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	n/a
4.1	37	Atmospheric Environment Valued Component	The Project has the potential to influence the atmospheric environment that includes air quality, greenhouse gas (GHG) emissions and noise due to emissions from Construction, Operation, Decommissioning and Reclamation, and Post-closure phase activities. This section of the Application will present the subcomponents, key indicators, and boundaries of the assessment for the Atmospheric Environment VC, and pathways along which potential Project-related effects could occur, with cross references to other supporting VC assessment sections.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
4.1	37	Atmospheric Environment Valued Component	The Atmospheric Environment VC will include the following subcomponents and associated indicators:	3	See below	See below	See below	n/a
4.1	37	Atmospheric Environment Valued Component	Subcomponent	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
			Air Quality					
			GHG Emissions					
			Noise					

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.1	37	Atmospheric Environment Valued Component	Although vibration has been screened out as a subcomponent, a qualitative discussion will be included in the Application.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	2.4 Vibration	n/a
4.1	37	Atmospheric Environment Valued Component	Project-related effects on this VC may have linkages to other VCs, such as:	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	37	Atmospheric Environment Valued Component	Aquatic Resources;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	37	Atmospheric Environment Valued Component	Avian Species;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	38	Atmospheric Environment Valued Component	Community Well-being;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	5 Community Well-Being being Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	38	Atmospheric Environment Valued Component	Fish and Fish Habitat;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	38	Atmospheric Environment Valued Component	Human Health;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				4	8.0 Human Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	38	Atmospheric Environment Valued Component	Land and Resource Use;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	38	Atmospheric Environment Valued Component	Surface Water;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	38	Atmospheric Environment Valued Component	Terrain and Soils;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
4.1	38	Atmospheric Environment Valued Component	Vegetation; and	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component (VC)	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.1	38	Atmospheric Environment Valued Component	Wildlife.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component (VC)	n/a
4.1.1	38	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4 Assessment Boundaries	n/a
4.1.1	38	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Atmospheric Environment VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Air Quality Local and Regional Study Areas; Figure 3.2-2: Noise Local and Regional Study Areas	n/a
4.1.1	38	Context and Boundaries	The proposed LSA and RSA for the Atmospheric Environment VC are described below and are illustrated in Figure 3 and Figure 4. Air quality boundaries are based on modelling guidance and expected emissions, primarily fugitive dust. Potential effects of GHGs are global in nature and thus the assessment area follows provincial and federal boundaries. Noise boundaries are based on the expected extent of noise emissions that would attenuate to background levels:	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Air Quality Local and Regional Study Areas; Figure 3.2-2: Noise Local and Regional Study Areas	n/a
4.1.1	38	Context and Boundaries	LSA:	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.1.1	38	Context and Boundaries	Air Quality LSA: 25 km by 21 km area including a minimum 5 km buffer around proposed infrastructure. This represents the area within which the main effects on air quality may be expected.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.1.1	38	Context and Boundaries	GHG Emissions LSA: Not applicable.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.1.1	38	Context and Boundaries	Noise LSA: Extends 3 km from Project boundaries and activities, including the haul road.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.1.1	38	Context and Boundaries	RSA:	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.1.1	38	Context and Boundaries	Air Quality RSA: 35 km by 35 km area including a 10 km buffer around proposed infrastructure. This represents an area within which potential effects on Telkwa and Smithers are captured.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.1.1	38	Context and Boundaries	GHG Emissions RSA: The RSA includes provincial and federal boundaries.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.1 Spatial Boundaries	n/a

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4.1.1	39	Context and Boundaries	Noise RSA: Extends 5 km from project boundaries and activities, including the Bypass Road and Minesite haul road.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.1.1	39	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
4.1.1	40	Context and Boundaries	Figure 3 Air Quality Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	Figure 3.2-1: Air Quality Local and Regional Study Areas	n/a
4.1.1	41	Context and Boundaries	Figure 4 Noise Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	Figure 3.2-2: Noise Local and Regional Study Areas	n/a
4.1.2	42	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4. Existing Conditions	4.1-A Noise Modelling Report; 4.1-B Air Quality Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4. Existing Conditions	4.1-A Noise Modelling Report; 4.1-B Air Quality Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.1.2	42	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, a list of the information provided in the baseline report, and descriptions of field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Atmospheric Environment VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions	4.1-A Noise Modelling Report; 4.1-B Air Quality Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	The following general approach is being taken to develop existing conditions for the Atmospheric Environment VC:	3	See below	See below	See below	n/a
4.1.2	42	Existing Conditions	Air Quality	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.2.2 Air Quality	4.1-B Air Quality Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	Dustfall was monitored during consecutive periods of approximately 30 days each, beginning in September/October 2017 until February 2018.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.2.2 Air Quality; 4.2.2.3 Dustfall	4.1-B Air Quality Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	At the end of each sampling period, dustfall canisters were collected and analyzed for particulates (total, soluble, and insoluble), anions and nutrients (sulphate, nitrate, chloride, and ammonia), and metals.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.2.2 Air Quality	4.1-B Air Quality Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	A Partisol station to measure PM₁₀ and PM_{2.5} was installed in November 2018.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.2.2.1 Particulate Matter	4.1-B Air Quality Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report

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4.1.2	42	Existing Conditions	○ A meteorological station was installed at the Tenas Deposit in September 2017.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.3 Baseline Studies; 4.2 Description of Existing Conditions	4.1-B Air Quality Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	• Noise	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2.4 Noise; 4.2.4 Noise	4.1-A Noise Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	○ Noise was monitored at three stations, and measurements were collected.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2.4 Noise; Table 4.2-6: Summary of Baseline Noise Measurements, 2017 - 2018; 4.2.4 Noise	4.1-A Noise Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	○ Noise measurements were logged once every minute at approximately 1.5 metre (m) above ground. Measurements were taken for approximately 24 hours at each sampling season and each location.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.3 Baseline Studies; 4.2.4 Noise	4.1-A Noise Modelling Report; 4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	The following technical reports will be reviewed as part of the Application. Where historic technical reports from unrelated projects are used as supporting information, the Application will include context relevant to the Project:	3	See below	See below	See below	n/a
4.1.2	42	Existing Conditions	• Davidson Project: Davidson Project Meteorology, Air Quality and Noise Baseline Study (Blue Pearl Mining Inc. 2008).	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2.4 Noise	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	42	Existing Conditions	• Dome Mountain Project: 2009/10 Meteorology and Air Quality Baseline Report (Rescan 2010).	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.1.2	43	Existing Conditions	Telkwa Coal Project	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	Application for a Project Approval Certificate – Volumes I-V (Manalta Coal Ltd 1997).	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	BC Air Data Archive website (BC Ministry of Environment and Climate Change 2019).	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2.1 Climate	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	BC State of the Air Reports (BC Lung Association 2018).	3	4.0 Environmental Effects Assessment	Chapter 1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs, and guidance documents related to the Atmospheric Environment VC, including:	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	2. Regulatory Context	n/a
4.1.2	43	Existing Conditions	Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (BC Ministry of Environment 2016a);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	<i>Environmental Management Act</i>. SBC 2003. Chapter 53 (Prov BC 2003);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	2.1 Air Quality	n/a
4.1.2	43	Existing Conditions	Air Quality Objectives and Standards (BC AQO) (BC Ministry of Environment and Climate Change Strategy 2018a);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2 Scientific and Other Information; Table 4.1-1: Environmental Assessment Certificate (EAC) Application Alternate References	n/a
4.1.2	43	Existing Conditions	Canadian Ambient Air Quality Standards (Canadian Council of Ministers of the Environment (CCME) 2020a);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2 Scientific and Other Information; Table 4.1-1: Environmental Assessment Certificate (EAC) Application Alternate References	n/a
4.1.2	43	Existing Conditions	National Ambient Air Quality Objectives (CCME 1974);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2 Scientific and Other Information; Table 4.1-1: Environmental Assessment Certificate (EAC) Application Alternate References	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.1.2	43	Existing Conditions	Village of Telkwa's Noise Control Bylaw No. 495, 2001 (Village of Telkwa 2001);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	Noise Control Best Practices Guidelines (BC Oil & Gas Commission 2009);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	Environmental Code of Practice for Metal Mines (Environment Canada 2009);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	Night Noise Guidelines for Europe (World Health Organization 1999);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2 Scientific and Other Information; Table 4.1-1: Environmental Assessment Certificate (EAC) Application Alternate References	n/a
4.1.2	43	Existing Conditions	Standard Test Method for Collection and Measurement of Dustfall (Settleable Particulate Matter), American Society for Testing and Materials (ASTM) D1739 98 (ASTM International 2017);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.3 Baseline Studies	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	Standard Guide for Selection Environmental Noise Measurements & Criteria, ASTM E1686-03 (ASTM International 2008);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	n/a	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	43	Existing Conditions	Useful Information for Environmental Assessments (Health Canada 2010c);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2 Scientific and Other Information; Table 4.1-1: Environmental Assessment Certificate (EAC) Application Alternate References	n/a
4.1.2	43	Existing Conditions	Guideline for Air Quality Dispersion Modelling in BC (Ministry of Environment 2015b);	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.2.2.4 Summary	n/a
4.1.2	43	Existing Conditions	Guidance for Evaluating Human Health Impacts in Environmental Assessments: Noise (Health Canada 2017b); and	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	2.3 Noise	n/a

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4.1.2	43	Existing Conditions	Guidance for Developing a Fugitive Dust Management Plan (Ministry of Energy, Mines and Petroleum Resources & Ministry of Environment and Climate Change Strategy 2020).	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.2 Scientific and Other Information; Table 4.1-1: Environmental Assessment Certificate (EAC) Application Alternate References	n/a
4.1.2	43	Existing Conditions	The following Atmospheric Environment VC technical reports will be provided with the Application:	3	See below	See below	See below	See below
4.1.2	44	Existing Conditions	Tenas Project: 2017 to 2019 Baseline Report (ERM 2020); and	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	4.1.3 Baseline Studies	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.1.2	44	Existing Conditions	Data from BC Ministry of Environment and Climate Change monitoring stations (BC Ministry of Environment and Climate Change 2018c).	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	2.1 Air Quality	n/a
4.1.3	44	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5. Assessment of Project-related Effects	n/a
4.1.3	44	Potential Effects	The Application will identify potential adverse effects on the Atmospheric Environment VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5. Assessment of Project-related Effects	n/a
4.1.3	44	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Atmospheric Environment VC resulting from Project activities within each phase of the Project. Interactions between Project components and activities and the Atmospheric Environment VC will be summarized.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.1 Potential Project-related Interactions with Atmospheric Environment; 5.2 Potential Project-related Effects	4.1-B Air Quality Modelling Report
4.1.3	44	Potential Effects	The following potential effects will be assessed:	3	See below	See below	See below	n/a
4.1.3	44	Potential Effects	Fugitive dust emissions from material handling, blasting, vehicles, and processing can result in increases in ambient particulate matter concentrations (total suspended particulate [TSP], inhalable particulate matter [PM₁₀], and respirable particulate matter [PM_{2.5}]) that can affect human and wildlife health and increases in dust fall deposition that can affect vegetation and waterbodies.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.2.1.1 Operation Phase; Figures 5.2.1 through 5.2.10	4.1-B Air Quality Modelling Report

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4.1.3	44	Potential Effects	Combustion emissions from vehicles and equipment can result in increases in ambient concentrations of nitrogen dioxide (NO₂), sulphur dioxide (SO₂), and other contaminants that can negatively affect human health and vegetation.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.2.2.1 Operation Phase; Table 5.2-2: Estimated Greenhouse Gas (GHG) Emissions	4.1-B Air Quality Modelling Report
4.1.3	44	Potential Effects	The nature and extent of potential increases in ambient noise levels resulting from mining and Rail Loadout activities during the Operation phase of the Project for daytime noise levels (Leq,day) and nighttime noise levels (Leq,night) at receptor locations, as well as percent highly annoyed (%HA) and low frequency noise.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.2.3.1 Operation Phase; Table 5.2-3: Maximum Predicted Noise Levels	4.1-A Noise Modelling Report
4.1.3	44	Potential Effects	Increases in GHG emissions and comparisons to provincial and federal emissions.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.2.2.1 Operation Phase; Table 5.2-2: Estimated Greenhouse Gas Emissions	n/a
4.1.4	44	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.3 Mitigation Measures	n/a
4.1.4	44	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects on the Atmospheric Environment VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans (as identified in section 13 Management Plans) will be referenced, e.g., fugitive dust management will be part of the Air Quality Management Plan. Linkages to other sections in the Application will also be identified.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Environmental Management Plans	2 Air Quality Management Plan (AQMP); 6 Explosives Management Plan (EMP)	n/a	n/a
4.1.5	44	Residual Effects	Residual Effects	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.1.5	44	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a

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4.1.5	45	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.1.6	45	<i>Cumulative Effects</i>	<i>Cumulative Effects</i>	3	<i>4.0 Environmental Effects Assessment</i>	<i>1 Atmospheric Environment Valued Component</i>	<i>6. Cumulative Effects Assessment (CEA)</i>	<i>n/a</i>
4.1.6	45	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	n/a
4.1.6	45	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	6. Cumulative Effects Assessment (CEA); Table 6-1: Projects Included in the Assessment of Atmospheric Environment Valued Component (VC) Based on Spatial and Temporal Interaction; Figure 6-1: Map of Projects and Activities for Cumulative Effects Assessment	n/a
4.1.6	45	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR; and	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	6. Cumulative Effects Assessment (CEA); 6.1 Cumulative Effects Assessment (CEA) - Air Quality Subcomponent; 6.2 Cumulative Effects Assessment (CEA) – Greenhouse Gas (GHG) Emissions Subcomponent; 6.3 Cumulative Effects Assessment (CEA) - Noise Subcomponent; 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a

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4.1.6	45	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	6.1.2 Additional Mitigation Measures; 6.2.2 Additional Mitigation Measures 6.3.2 Additional Mitigation Measures	n/a
4.1.6	45	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance; 6.2.3 Cumulative Effects and Characterisation of Significance; 6.3.3 Cumulative Effects and Characterisation of Significance; 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a
4.1.7	45	Follow-up Strategy	Follow-up Strategy	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	8. Follow-up Strategy	n/a
4.1.7	45	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 3.9 Follow-up Strategy of this AIR.	3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Environmental Management Plans	2 Air Quality Management Plan (AQMP); 6 Explosives Management Plan (EMP)	n/a	n/a

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4.2	45	Terrain and Soils Valued Component	Terrain and Soils Valued Component	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	n/a	n/a
4.2	45	Terrain and Soils Valued Component	The Project has the potential to change slope stability and increase the risk of geohazards during the Construction, Operation, Decommissioning and Reclamation and Post-closure phases for the access road to the pit area. There is also the potential to interact with soil quantity and quality as a result of mine development. Soil quantity and quality will be considered during reclamation planning. This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for the Terrain and Soils VC, and pathways along which potential Project related effects could occur, with cross references to other supporting VC assessment sections.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
4.2	45	Terrain and Soils Valued Component	The Terrain and Soils VC will include the following subcomponents and their associated indicators:	3	See below	See below	See below	n/a
4.2	46	Terrain and Soils Valued Component	Subcomponent	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
			Indicators					
			Soil Quality					
			Change in physical and chemical properties of soil in context of land use capability					
			Terrain Stability					
			Change in:					
			• Terrain stability					
			• Terrain morphology					
4.2	46	Terrain and Soils Valued Component	The Terrain and Soils VC will be supported by the Atmospheric Environment VC assessment. Project-related effects on the Terrain and Soils VC may have linkages to the following VCs:	3	See below	See below	See below	n/a
4.2	46	Terrain and Soils Valued Component	• Aquatic Resources;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	• Atmospheric Environment;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	• Avian Species;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component (VC)	n/a

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4.2	46	Terrain and Soils Valued Component	Fish and Fish Habitat;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	Groundwater;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	Human Health;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	Land and Resource Use;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	Surface Water;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	Vegetation;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	Visual Resources; and	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	6.0 Social Effects Assessment	2 Visual Resources Valued Component	3.2.1 Valued Component (VC)	n/a
4.2	46	Terrain and Soils Valued Component	Wildlife.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component (VC)	n/a
4.2.1	46	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.4 Assessment Boundaries	n/a
4.2.1	46	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Terrain and Soils VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.4 Assessment Boundaries; Figure 3.2.1 Spatial assessment boundaries for the Terrain and Soils Valued Component	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.2.1	46	Context and Boundaries	The proposed LSA and RSA for the Terrain and Soils VC are described below and are illustrated in Figure 5 .	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2.1 Spatial assessment boundaries for the Terrain and Soils Valued Component	n/a
4.2.1	46-47	Context and Boundaries	Terrain and Soils LSA: includes the Project Area with a 250 m buffer on gravel quarries and linear infrastructure outside of the Rail Loop, Minesite and Mine Infrastructure Complex (i.e., roads, powerlines, pipelines), and a 500 m buffer around all other infrastructure (e.g., Rail Loop, Explosives Facility and Magazine, pit).	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.2.1	47	Context and Boundaries	Terrain and Soils RSA: includes a minimum of a 5 km buffer around the Project Area.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.2.1	47	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation, and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
4.2.1	48	Context and Boundaries	Figure 5 Terrain and Soils Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	Figure 3.2.1 Spatial assessment boundaries for the Terrain and Soils Valued Component	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.2.2	49	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4. Existing Conditions	4.2-A Terrain and Soil Baseline Report
4.2.2	49	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4. Existing Conditions	4.2-A Terrain and Soil Baseline Report
4.2.2	49	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, list of the information provided in the baseline report, and field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Terrain and Soils VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Terrain and Soils VC:	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4. Existing Conditions	4.2-A Terrain and Soil Baseline Report
4.2.2	49	Existing Conditions	Desktop studies using publicly available information will be completed. Information sources may include but are not limited to existing terrain, soils, and geology mapping, reports completed from previous projects and the scientific literature.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions; 9. References	4.2-A Terrain and Soil Baseline Report
4.2.2	49	Existing Conditions	Terrain will be mapped within the Terrain and Soils LSA following the Terrain Classification System for British Columbia (Howes and Kenk 1997), the Guidelines and Standards to Terrain Mapping in British Columbia (Resources Inventory Committee 1996).	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4.1.3.1 Terrain Mapping	4.2-A Terrain and Soil Baseline Report
4.2.2	49	Existing Conditions	Terrain mapping will be completed at the 1:10,000 scale, which indicates that 26 to 75 percent (%) of the polygons will be verified in the field.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4.1.3.1 Terrain Mapping	4.2-A Terrain and Soil Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.2.2	49	Existing Conditions	Field methodology will follow the Field Manual for Describing Terrestrial Ecosystems (BC Ministry of Forests and Range and BC Ministry of Environment 2010).	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4.1.3 Baseline Studies; 4.2 Description of Existing Conditions	4.2-A Terrain and Soil Baseline Report
4.2.2	49	Existing Conditions	Soils will be described using detailed soil surveys within any ALR areas and using Terrestrial Ecosystem Mapping (TEM) in non-ALR areas.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4.1.3 Baseline Studies; 4.2 Description of Existing Conditions	4.2-A Terrain and Soil Baseline Report
4.2.2	49	Existing Conditions	Soil quality will be assessed in the context of land capability classification for agriculture.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4.1.2 Scientific and Other Information; 4.1.3 Baseline Studies; 4.2 Description of Existing Conditions	4.2-A Terrain and Soil Baseline Report
4.2.2	49	Existing Conditions	Any TEK will be included where relevant and available.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4.1.1 Traditional Knowledge	n/a
4.2.2	49	Existing Conditions	The Application will identify applicable provincial and federal legislation, policies, BMPs and guidance documents related to Terrain and Soils VC, including:	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	2. Regulatory Context	n/a
4.2.2	49	Existing Conditions	<i>Mines Act</i> . RSBC 1996. Chapter 293 (Prov BC 1996f);	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	2.2 Provincial Legislation and Regulations; Table 2.2-1 Summary of Provincial Legislation, Regulations, and Policy Applicable to the Terrain and Soils Valued Component (VC)	n/a
4.2.2	49	Existing Conditions	Health, Safety and Reclamation Code for Mines in British Columbia. Ministry of Energy and Mines (Prov BC 2021);	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3-1: Summary of Strategies, Guidelines, Plans and Best Management Practices (BMPs) Applicable to the Terrain and Soils Valued Component (VC)	n/a
4.2.2	50	Existing Conditions	<i>Forest and Range Practices Act</i>. SBC 2002. Chapter 69 (Prov 2002d);	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	2.2 Provincial Legislation and Regulations; Table 2.2-1 Summary of Provincial Legislation, Regulations, and Policy Applicable to the Terrain and Soils Valued Component (VC)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.2.2	50	Existing Conditions	<i>Environmental Assessment Act</i>. SBC 2002. Chapter 43 (Prov 2002c);	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	2.2 Provincial Legislation and Regulations; Table 2.2-1 Summary of Provincial Legislation, Regulations, and Policy Applicable to the Terrain and Soils Valued Component (VC)	n/a
4.2.2	50	Existing Conditions	Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health (CCME 2007);	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	2.1 Federal Legislation and Regulations; Table 2.1-1: Summary of Federal Legislation, Regulations and Policy Applicable to the Terrain and Soils Valued Component (VC)	n/a
4.2.2	50	Existing Conditions	Bulkley Land and Resource Management Plan (Prov BC 1998a); and	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	2.4 Land Use Plans	n/a
4.2.2	50	Existing Conditions	<i>Agricultural Land Commission Act</i> (Prov BC 2002a) and Agricultural Land Reserve Use Regulation (Prov BC 2019a).	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	2.2 Provincial Legislation and Regulations; Table 2.2-1 Summary of Provincial Legislation, Regulations, and Policy Applicable to the Terrain and Soils Valued Component (VC)	n/a
4.2.2	50	Existing Conditions	The following Terrain and Soils VC technical reports will be referenced in the Application:	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	n/a	n/a
4.2.2	50	Existing Conditions	Soil Survey and Land Capability Evaluation of the Telkwa Coal Project (Pedology Consultants 1984); and	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	n/a	4.2-A Terrain and Soil Baseline Report
4.2.2	50	Existing Conditions	The following Terrain and Soil VC technical report will be provided as an appendix to the Application:	3	See below	See below	See below	See below
4.2.2	50	Existing Conditions	Terrain and Soil Baseline Studies	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	4.1.3 Baseline Studies	4.2-A Terrain and Soil Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.2.3	50	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5. Assessment of Project-related Effects	n/a
4.2.3	50	Potential Effects	The Application will identify potential adverse effects on the Terrain and Soils VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5. Assessment of Project-related Effects	n/a
4.2.3	50	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Terrain and Soils VC resulting from activities within each phase of the Project. Interactions between Project components and activities and the Terrain and Soils VC will be summarized.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5.1 Potential Project-related Interactions with Terrain and Soils Valued Component (VC); 5.2 Potential Project-related Effects	n/a
4.2.3	50	Potential Effects	The following potential effects will be assessed:	3	See below	See below	See below	n/a
4.2.3	50	Potential Effects	Changes to terrain from vegetation and rock removal during Construction and Operation phases of the Project; and	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5.2 Assessment of Project-related Effects; 5.2.1 Terrain Stability Subcomponent	n/a
4.2.3	50	Potential Effects	Loss of soils and changes to soil quality due to change in chemical and physical characteristics during Construction, Operation, and Decommissioning and Reclamation phases of the Project.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5.2 Assessment of Project-related Effects; 5.2.2 Soil Quality Subcomponent	n/a
4.2.4	50	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5.3 Mitigation Measures	n/a
4.2.4	50	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects on the Terrain and Soils VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	7	13.0 Management Plans	2 Air Quality Management Plan (AQMP); Chapter 7 Fuel Management and Spill Control Plan (FMSCP); 9 Mine Emergency Response Plan (MERP); 15 Reclamation and Closure Plan (RCP); 17 Surface Erosion Prevention and Sediment Control Plan (SEPSCP); 18 Vegetation Management Plan (VMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.2.5	51	Residual Effects	Residual Effects	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.2.5	51	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.2.5	51	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.2.6	51	Cumulative Effects	Cumulative Effects	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
4.2.6	51	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	n/a
4.2.6	51	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	6. Cumulative Effects Assessment (CEA); Table 6-1: Projects Included in the Assessment of the Terrain and Soils Valued Component (VC) Based on Spatial and Temporal Interaction; Figure 6 1: Projects included in the Cumulative Effects Assessment for the Terrain and Soils VC; 6.1 Cumulative Effects Assessment (CEA) - Terrain Stability Subcomponent; 6.2 Cumulative Effects Assessment (CEA) - Soil Quality Subcomponent	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.2.6	51	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR; and	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	6. Cumulative Effects Assessment (CEA); 6.1 Cumulative Effects Assessment (CEA) - Terrain Stability Subcomponent; 6.2 Cumulative Effects Assessment (CEA) - Soil Quality Subcomponent; 6.3 Summary of Cumulative Effects Assessment (CEA)	n/a
4.2.6	51	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	6.2.2 Additional Mitigation Measures	n/a
4.2.6	51	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	6.2.3 Cumulative Effects and Characterisation of Significance; 6.3 Summary of Cumulative Effects Assessment (CEA)	n/a
4.2.7	51	Follow-up Strategy	Follow-up Strategy	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	8. Follow-up Strategy	n/a
4.2.7	51	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 3.9 Follow-up Strategy of this AIR.	7	13.0 Management Plans	2 Air Quality Management Plan (AQMP); 7 Fuel Management and Spill Control Plan (FMSCP); 9 Mine Emergency Response Plan (MERP); 15 Reclamation and Closure Plan (RCP); 17 Surface Erosion Prevention and Sediment Control Plan (SEPSCP); 18 Vegetation Management Plan (VMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.3	51	Surface Water Valued Component	Surface Water Valued Component		3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	n/a	n/a
4.3	51	Surface Water Valued Component	Project design and implementation may affect surface water quantity and quality in the Project Area. Instream and near-stream construction activities have the potential to produce elevated suspended solids in surface water and increase sediment deposition in sensitive habitats. This section of the Application will present the subcomponents, key indicators, and boundaries of the assessment for the Surface Water VC, and pathways along which potential Project related effects could occur, with cross references to other supporting VC assessment sections.		3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
4.3	52	Surface Water Valued Component	The Surface Water VC will include the following subcomponents and their associated indicators.		3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
4.3	52	Surface Water Valued Component	Subcomponent	Indicators	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.2 Subcomponents;	n/a
			Surface Water Quantity	Change in surface water flow rates (m ³ /sec)				3.2.3 Indicators	
			Surface Water Quality	Change in: • Total and dissolved elements • Anions/ nutrients • Alkalinity/acidity • Hardness • Turbidity • Total suspended solids • pH • Conductivity • Temperature • PAHs					

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4.3	52	Surface Water Valued Component	Project-related effects on this VC may have linkages to the following VCs:		See below	See below	See below	n/a
4.3	52	Surface Water Valued Component	• Aquatic Resources;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
4.3	52	Surface Water Valued Component	• Atmospheric Environment;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
4.3	52	Surface Water Valued Component	• Avian Species;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component (VC)	n/a
4.3	52	Surface Water Valued Component	• Fish and Fish Habitat;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
4.3	52	Surface Water Valued Component	• Groundwater;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component (VC)	n/a
4.3	52	Surface Water Valued Component	• Human Health;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component (VC)	n/a
4.3	52	Surface Water Valued Component	• Land and Resource Use;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				3	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
4.3	52	Surface Water Valued Component	• Vegetation; and	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component (VC)	n/a
4.3	52	Surface Water Valued Component	• Wildlife.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component (VC)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.3.1	52	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.4 Assessment Boundaries	n/a
4.3.1	52	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Surface Water VC, including maps, in a manner consistent with 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Local and Regional Study Areas for Surface Water Valued Component	n/a
4.3.1	52	Context and Boundaries	The proposed LSA and RSA for the Surface Water VC are described below and are illustrated in Figure 6 . The water study boundaries are selected to account for near and far-field changes to surface water quantity and quality:	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Local and Regional Study Areas for Surface Water Valued Component	n/a
4.3.1	52	Context and Boundaries	Surface Water LSA: is defined where direct discharges occur to watercourses within the vicinity of the mine (e.g., Tenas Creek, Four Creek, and Goathorn Creek), to the edge of the mixing zone in the Telkwa River, and downstream of the Rail Loadout in the Bulkley River.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.3.1	53	Context and Boundaries	Surface Water RSA: is assumed to extend to monitoring location WQS12 in the Bulkley River, downstream of the confluence with the Telkwa River. The extent of the RSA will be confirmed through modelling.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.3.1	53	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project, including a Post-closure monitoring plan. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries 8. Follow-up Strategy	n/a
4.3.1	54	Context and Boundaries	Figure 6 Surface Water Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	Figure 3.2 1: Local and Regional Study Areas for Surface Water Valued Component	

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.3.2	55	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4. Existing Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report; 4.3-A Tenas Project - Water and Load Balance Modeling Report; 7.1-B Cultural Use Study (CUS)
4.3.2	55	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4. Existing Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report; 4.3-A Tenas Project - Water and Load Balance Modeling Report
4.3.2	55	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, list of the information provided in the baseline report, field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Surface Water VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach and sources are being used to develop existing conditions for the Surface Water VC:	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4. Existing Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report; 4.3-A Tenas Project - Water and Load Balance Modeling Report
4.3.2	55	Existing Conditions	Surface water hydrology;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.3.2	55	Existing Conditions	Hydrometric monitoring stations were set up at Tenas Creek, Goathorn Creek, and Telkwa River. At each station, pressure transducers were installed as deep in the channel as possible to allow for continuous monitoring of water levels at all ranges of flows. Pressure transducers continuously recorded water level at a ten-minute interval.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3.1 Surface Water Quantity Methods; 4.2.3 Surface Water Quantity Baseline Conditions; Table 4.2 1: Summary of Hydrologic Indices for Local Hydrometric Stations in the RSA from 2017-2020	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.3.2	55	Existing Conditions	Manual flow measurements were completed during each site visit during the 2017 to 2019 monitoring period to obtain a range of measured discharges under varying conditions.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3.1 Surface Water Quantity Methods; 4.2.3 Surface Water Quantity Baseline Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.3.2	55	Existing Conditions	To provide a continuous record of the discharge at hydrometric monitoring sites, empirical relationships between measured stage and discharge (i.e., rating curves) were developed (ISO 2010). Once the rating curve is established for a monitoring site, continuous stage data can be converted into continuous discharge data by applying the rating curve equation to the recorded stage values. Data are then presented as discharge hydrographs.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3.1 Surface Water Quantity Methods; 4.2.3 Surface Water Quantity Baseline Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.3.2	55	Existing Conditions	Annual hydrographs, presented as mean daily discharge, were generated for each hydrometric monitoring station operated in 2017.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3.1 Surface Water Quantity Methods; 4.2.3 Surface Water Quantity Baseline Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.3.2	55	Existing Conditions	Observed and calculated discharge values were used to generate a series of hydrologic indices including annual runoff, mean annual discharge, seasonal runoff distribution, and annual peak and low flows.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3.1 Surface Water Quantity Methods; 4.2.3 Surface Water Quantity Baseline Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.3.2	55	Existing Conditions	Surface water quality;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3.2 Surface Water Quality Methods; 4.2.4 Surface Water Quality Baseline Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.3.2	55	Existing Conditions	Water samples were collected in Tenas Creek, Goathorn Creek, Four Creek, Helps Creek, Telkwa River, and Bulkley River.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.2.4 Surface Water Quality Baseline Conditions; Table 4.2 5: Number of Samples Collected Throughout Surface Water Quality Baseline Sampling Program, 2017 to 2019; Table 4.2 6: Surface Water Quality Summary Statistics by Stream, 2017 to 2019 (mg/L)	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.3.2	55	Existing Conditions	Samples were analyzed by ALS Environmental Laboratories.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3.2 Surface Water Quality Methods	4.1-C Tenas Project 2017 to 2019 Baseline Report
53	56	Existing Conditions	Water-quality parameters were compared to their respective BC Ministry of Environment and Climate Change Strategy and CCME water quality guidelines for the protection of freshwater aquatic life.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3.2 Surface Water Quality Methods	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.3.2	56	Existing Conditions	Sources	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information; 9. References	n/a
4.3.2	56	Existing Conditions	Telkwa River Below Tsai Creek, Bulkley River at Quick, and Bulkley River Near Smithers Real-time Hydrometric Data (Water Survey of Canada 2021a);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Goathorn Creek Near Telkwa Historical Hydrometric Data (Water Survey of Canada 2021b);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a

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4.3.2	56	Existing Conditions	Telkwa Coal Project: Application for a Project Approval Certificate – Volumes I-V (Manalta Coal Ltd 1997a);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Final Project Report Specifications for Manalta Coal Ltd.'s Proposed Telkwa Coal Project (Telkwa Coal Project Committee 1997b);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Application for Environmental Assessment Certificate (Blue Pearl Mining Inc. 2008);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Davidson Project Meteorology and Hydrology Baseline report 2006-2008 (Rescan Environmental Services Ltd 2009);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Water Management for the Telkwa Coal Project (Piteau Engineering Ltd. August 1998);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Ambient Water Quality Objectives for the Bulkley River Basin: Overview Report. B.C. Ministry of Environment (R. Nijman 1986a);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Ambient Water Quality Objectives for the Bulkley River Basin: Technical Appendix. B.C. Ministry of Environment (R. Nijman 1986b);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Telkwa Coal Mine Surface Water Monitoring Program 1998. (AGRA Earth & Environmental Ltd. 1999);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Telkwa Coal Project 1999 Baseline Surface Flow and Water Quality Final Data Report (AGRA Earth & Environmental Ltd. 2000);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	56	Existing Conditions	Drinking Water Source Quality Monitoring 2002-03; Bulkley Valley Surface Water Sources: Smithers Lakes, Kirby Lake, Chicago Creek, Bulkley River, Tobaggan Creek, and Thompson Creek (BC MOE 2006a);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a

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4.3.2	56	Existing Conditions	○ Skeena-Nass Area Bulkley River Basin Water Quality Assessment and Objectives (BC Ministry of Environment 1986);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	57	Existing Conditions	○ Report to Stephen Day: BC Research Selenium Results (Frontier Geosciences 1999);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	57	Existing Conditions	○ Baseline Data, Surface Water and Groundwater, Telkwa Coal Project (Piteau Engineering 1994);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	57	Existing Conditions	○ Summary of Fisheries, Aquatic Habitat and Water Quality Information for the Telkwa Project Area: A Literature Review (SRK Consultants 1996);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.2 Scientific and Other Information	n/a
4.3.2	57	Existing Conditions	○ TEK where relevant and available.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.1 Traditional Knowledge (TK)	7.1-B Cultural Use Study
4.3.2	57	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Surface Water VC, including:	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	• <i>Water Sustainability Act</i> . Chapter 15 (Prov BC 2014);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	• <i>Canada Water Act</i> . R.S.C. 1985 (GOC 1985a);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	• <i>Fisheries Act</i>. R.S.C. 1985 (GOC 1985d);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	• <i>Canadian Environmental Protection Act</i>. S.C. 1999 (GOC 1999);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	• <i>Mines Act</i>. Chapter 293. 1996 (Prov BC 1996f);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	• <i>Environmental Management Act</i> . Chapter 53. 2003 (Prov BC 2003);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	• Manual of British Columbia Hydrometric Standards (Prov BC 2018b);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	• Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (Ministry of Environment 2016a);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a

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4.3.2	57	Existing Conditions	British Columbia Environmental Laboratory Manual (BC Ministry of Environment 2020a);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	British Columbia Approved Water Quality Guidelines: Aquatic Life, Wildlife & Agriculture (Ministry of Environment 2019c);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	Canadian Council of Ministers of the Environment (CCME) guidelines (CCME 2018);	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	BC Field Sampling Manual (BC Ministry of Environment 2016b); and	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	Guidelines for Metal Leaching and Acid Rock Drainage at Mine Sites in British Columbia (Prov BC 1998b).	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	2. Regulatory Context	n/a
4.3.2	57	Existing Conditions	The following Surface Water VC technical reports will be provided with the Application:	3	See below	See below	See below	n/a
4.3.2	57	Existing Conditions	Tenas Project: 2017 to 2019 Baseline Report (ERM 2020).	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	4.1.3 Baseline Studies	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.3.3	57	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5. Assessment of Project-related Effects	n/a
4.3.3	57-58	Potential Effects	The Application will identify potential adverse effects to the Surface Water VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5. Assessment of Project-Related Effects	n/a
4.3.3	58	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Surface Water VC resulting from project activities within each phase of the Project. Interactions between Project components and activities and the Surface Water VC will be summarized.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.1 Potential Project-related Interactions with Surface Water Valued Component (VC); 5.2 Potential Project-related Effects	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.3.3	58	Potential Effects	Results from water quality predictions will be screened against provincial guidelines and background concentrations. Exceedances will be identified and discussed in the context of potential risk for biological effects. A detailed water quantity and quality model will be completed for the effects assessment. The methodologies and model results throughout all Project phases will be presented in the Application. The water quality model will incorporate parameters of potential concern, with relevant water quality guidelines. BC water quality guidelines for drinking water and freshwater aquatic life, combined with the Canadian Council of Ministers of Environment (CCME) guidelines and a Species Sensitivity Distribution (SSD) approach will be used.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2 Potential Project-related Effects; 5.2.2 Surface Water Quality Subcomponent	4.3-A Tenas Project - Water and Load Balance Modeling Report
4.3.3	58	Potential Effects	A bioaccumulation assessment of selenium in the aquatic environment will be prepared (to determine selenium risk), and this will be presented in the Application. The above-mentioned water quality model will predict total selenium.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2.2 Surface Water Quality Subcomponent	13.5-G Selenium SPO Recommendation Memo of S13.0-C5 Discharge Management Plan; 13.5-I Selenium Management Plan
4.3.3	58	Potential Effects	Parameters including, but not limited to copper, cadmium, selenium, and sulphate will be evaluated in the water and load balance modeling for the Project. Nitrogen species released through blasting have also been incorporated using approved methodologies. Calcite saturation indices will be calculated to determine if calcite is supersaturated in the modelled solutions to determine if calcite has the potential to precipitate in site waters and discharge from the Project.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5. Assessment of Project-Related Effects	4.3-A Tenas Project - Water and Load Balance Modeling Report; 13.5-J Calcite Precipitation Evaluation Technical Memorandum
4.3.3	58	Potential Effects	The site-wide water balance and water quality model will incorporate the results of the groundwater numerical flow model to delineate surface water-groundwater interactions and potential effects to both surface water quantity and surface water quality.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5. Assessment of Project-Related Effects	4.3-A Tenas Project - Water and Load Balance Modeling Report
4.3.3	58	Potential Effects	The following potential effects will be assessed for all Project phases:	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2.3 Summary of Potential Project-Related Effects	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.3.3	58	Potential Effects	Annual runoff;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2.1.1 Change in Mean Annual Discharge (MAD)	n/a
4.3.3	58	Potential Effects	Seasonal distribution of flow;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2.1.2 Change in Seasonal Flow Distribution	n/a
4.3.3	58	Potential Effects	Timing and magnitude of peak and low flow events;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2.1.3 Change in Low Flows and High Flows	n/a
4.3.3	58	Potential Effects	Changes to groundwater-surface water interactions;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2.1.2 Change in Seasonal Flow Distribution	n/a
4.3.3	58	Potential Effects	Evaluation of the metal leaching and acid rock drainage (ML/ARD) potential of mined materials (e.g., mined rock and processed rock) and influence of ML/ARD on surface water	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2.2.1 Change in Modelled Parameter Concentrations	n/a
4.3.3	58	Potential Effects	Changes to surface water quality.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.2.2 Surface Water Quality Subcomponent; 5.2.3 Summary of Potential Project-Related Effects	n/a

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4.3.4	59	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.3 Mitigation Measures	n/a
4.3.4	59	Mitigation Measures	The Application will identify measures to avoid, reduce, manage or otherwise mitigate potential adverse effects to the Surface Water VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced (e.g., Water, Discharge, and Explosives) when and if appropriate. Potential linkages to other aspects of the Application will be identified and cross-referenced. Mitigation measures and contingency plans will be proposed should predictions exceed benchmarks for the protection of the environment.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.3 Mitigation Measures	1.0-N SRK, Tenas Project Water Management Technical Design Report
				7	13.0 Management Plans	1 Environmental Management System (EMS); 2 Air Quality Management Plan (AQMP) 3 Chemicals and Materials Storage, Transfer, and Handling Plan (CMSTHP); 4 Construction Environmental Management Plan (CEMP); 5 Discharge Management Plan (DMP); 6 Explosives Management Plan (EMP); 7 Fuel Management and Spill Control Plan (FMSCP); 11 Minesite Water Management Plan (MWMP); 12 Metal Leaching (ML)/Acid Rock Drainage (ARD) Management Plan ML/ARDMP); 15 Reclamation and Closure Plan (RCP); 17 Surface Erosion Prevention and Sediment Control Plan (SEPSCP); 20 Waste Management Plan for Refuse and Emissions (WMPRE)	n/a	n/a

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4.3.5	59	Residual Effects	Residual Effects	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	4.3-A Tenas Project - Water and Load Balance Modeling Report; 1.0-N SRK Water Management Design Technical Report
4.3.5	59	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.3.5	59	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.3.6	59	Cumulative Effects	Cumulative Effects	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
4.3.6	59	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	n/a
4.3.6	59	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	6. Cumulative Effects Assessment (CEA); Table 6.1 1: Projects Included in the Assessment of the Surface Water Valued Component (VC) Based on Spatial and Temporal Interaction; Figure 6.1 1: Surface Water Cumulative Effects Assessment Project Inclusion List	n/a

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4.3.6	59	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR; and	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	6. Cumulative Effects Assessment (CEA); 6.3 Cumulative Effects and Characterisation of Significance by Subcomponent; 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a
4.3.6	59	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	6.2 Additional Mitigation Measures	n/a
4.3.6	59-60	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	6.3 Cumulative Effects and Characterisation of Significance by Subcomponent; 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a

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4.3.7	60	Follow-up Strategy	Follow-up Strategy	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	8. Follow-up Strategy	n/a
4.3.7	60	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 3.9 Follow-up Strategy of this AIR.	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	1 Environmental Management System (EMS); 2 Air Quality Management Plan (AQMP); 3 Chemicals and Materials Storage, Transfer, and Handling Plan (CMSTHP); 4 Construction Environmental Management Plan (CEMP); 5 Discharge Management Plan (DMP); 6 Explosives Management Plan (EMP); 7 Fuel Management and Spill Control Plan (FMSCP); 11 Minesite Water Management Plan (MWMP); 12 Metal Leaching (ML)/Acid Rock Drainage (ARD) Management Plan ML/ARDMP; 15 Reclamation and Closure Plan (RCP); 17 Surface Erosion Prevention and Sediment Control Plan (SEPSCP); 20 Waste Management Plan for Refuse and Emissions (WMPRE)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.4	60	Groundwater Valued Component	Groundwater Valued Component		3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	n/a	n/a
4.4	60	Groundwater Valued Component	Groundwater is protected under various legislation including the <i>BC Water Sustainability Act</i> (Prov BC 2014), <i>BC Environmental Management Act</i> (Prov BC 2003) and the <i>BC Mines Act</i> (Prov BC 1996f). The Project has the potential to interact with groundwater quantity and quality as a result of Project-related water management, and mine development. This section of the Application will present the subcomponents, key indicators, and boundaries of the assessment for the Groundwater VC, and pathways along which potential Project related effects could occur, with cross references to other supporting VC assessment sections.		3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3. Scope of the Assessment	4.4-A Groundwater Technical Report for the Tenas Coal Project, Telkwa (SRK)
4.4	60	Groundwater Valued Component	The following Groundwater VC will include the following Subcomponents and indicators:		3	See below	See below	See below	See below
4.4	60	Groundwater Valued Component	Subcomponent	Indicators	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.2 Subcomponents	n/a
			Groundwater Quantity	Change in - Groundwater discharge rates to surface water features (e.g., streams and creeks) (m3/s) - Groundwater levels (metres below ground surface)				3.2.3 Indicators	
			Groundwater Quality	Change in: - Dissolved elements - Anions/nutrients - Alkalinity/acidity - Hardness - Total dissolved solids - pH - Conductivity - Temperature					

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4.4	60	Groundwater Valued Component	Project-related effects on this VC may have linkages to the following VCs:	n/a	See below	See below	See below	See below
4.4	60	Groundwater Valued Component	Aquatic Resources;	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component	n/a
4.4	60	Groundwater Valued Component	Avian Species;	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.4	60	Groundwater Valued Component	Fish and Fish Habitat;	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component	n/a
4.4	60	Groundwater Valued Component	Human Health	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
4.4	60	Groundwater Valued Component	Surface Water;	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component	n/a
4.4	60	Groundwater Valued Component	Terrain and Soils;	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component	n/a
4.4	60	Groundwater Valued Component	Vegetation; and	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
4.4	60	Groundwater Valued Component	Wildlife.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a

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4.4.1	61	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.4 Assessment Boundaries	n/a
4.4.1	61	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Groundwater VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Local and Regional Study Areas for Groundwater	n/a
4.4.1	61	Context and Boundaries	The proposed LSA and RSA for the Groundwater VC are described below and are illustrated in Figure 7 .	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Local and Regional Study Areas for Groundwater	n/a
4.4.1	61	Context and Boundaries	Groundwater LSA: Where the Project may have a direct influence on the groundwater system and/or groundwater users. The area is delimited based on watersheds and to include the Project Area, and the private domestic wells located downgradient of the Project.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.4.1	61	Context and Boundaries	Groundwater RSA: Coincides with the Aquatic Resources RSA given the interdependence between groundwater and surface water.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.4.1	61	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project, including a Post-closure monitoring plan. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.4.2 Temporal Boundaries; Table 3.2-4: Temporal Boundaries for the Tenas Project	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.4.1	62	Context and Boundaries	Figure 7 Groundwater Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Local and Regional Study Areas for Groundwater	n/a
4.4.2	63	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4. Existing Conditions	4.4-A Groundwater Technical Report for the Tenas Coal Project, Telkwa (SRK)
4.4.2	63	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4. Existing Conditions	4.4-A Groundwater Technical Report for the Tenas Coal Project, Telkwa (SRK)
4.4.2	63	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, list of the information provided in the baseline report, field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Groundwater VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Groundwater VC:	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.1.3 Baseline Studies; 4.2 Description of Existing Conditions	4.1-A Tenas Project 2017 to 2019 Baseline Report (ERM) 4.4-A Groundwater Technical Report for the Tenas Coal Project, Telkwa (SRK) 7.1-B Cultural Use Study

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.4.2	63	Existing Conditions	The characterization of groundwater has generally followed regulatory and policy frameworks, and provincial	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	2. Regulatory Context	n/a
4.4.2	63	Existing Conditions	Joint Application Requirements for <i>Mines Act</i> and <i>Environmental Management Act</i> Permits (BC	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	2. Regulatory Context	n/a
4.4.2	63	Existing Conditions	Groundwater Protection Regulation (Prov BC 2016), <i>Water Sustainability Act</i>. Chapter 15. 2016. (Prov BC 2014);	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	2. Regulatory Context	n/a
4.4.2	63	Existing Conditions	Guidelines for Groundwater Modelling to Assess Impacts of Proposed Natural Resource Development Activities (BC Ministry of Environment 2012);	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	2. Regulatory Context	n/a
4.4.2	63	Existing Conditions	Framework for a Hydrogeologic Study in support of an Application for an Environmental Assessment Certificate under the <i>Environmental Assessment Act</i> and Regulations (BC Ministry of Environment, Water Stewardship Division 2019);	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	2. Regulatory Context	n/a
4.4.2	63	Existing Conditions	Draft Guidelines for the Preparation of an Environmental Impact Statement (CEAA 2015); and	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	2. Regulatory Context	n/a
4.4.2	63	Existing Conditions	Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators, Version 2 (BC Ministry of Environment 2016).	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	8. Follow-up Strategy	n/a
4.4.2	63	Existing Conditions	The Application will describe the existing (or baseline) groundwater conditions within the study area in detail to enable potential Project- VC interactions to be identified, understood, and assessed, including:	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4. Existing Conditions	n/a
4.4.2	63	Existing Conditions	A description of the literature reviews, desktop studies, and field programs, with reference to applicable assumptions, standards, methods, dates, analyses, and margins of error or degree of uncertainty; and	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.1 Background Information and Studies	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.4.2	64	Existing Conditions	Natural and/or human-caused trends that may have altered the VC as a result of the Project or other project and/or activities in the area.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.2 Description of Existing Conditions	n/a
4.4.2	64	Existing Conditions	The baseline groundwater conditions will be characterized based on the relevant documentation produced specifically for the Project, as well as publicly available studies for the study area or other projects in central BC. The key findings will be summarized directly in the Application and the full description of the study will be documented in two technical reports contained in Appendices:	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.2 Description of Existing Conditions	n/a
4.4.2	64	Existing Conditions	Baseline Data – Surface Water and Groundwater for the Project; and	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.2 Description of Existing Conditions	4.1-A 2017 to 2019 Baseline Report (ERM 2020) 4.4-A
4.4.2	64	Existing Conditions	Groundwater Assessment Technical Report for the Project.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.2 Description of Existing Conditions	4.4-A Groundwater Technical Report for the Tenas Coal Project, Telkwa. (SRK)
4.4.2	64	Existing Conditions	The information specific to the Project will include:	3	See below	See below	See below	See below
4.4.2	64	Existing Conditions	The groundwater field investigations completed by the prior owners (Manalta Coal Ltd.);	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.1.3 Baseline Studies	n/a
4.4.2	64	Existing Conditions	The groundwater field investigations completed since 2017 to compliment the historical	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.1.3 Baseline Studies	n/a
4.4.2	64	Existing Conditions	Comparisons of groundwater quality at the Project with BC Ministry of Environment approved and working water quality guidelines for freshwater aquatic life; and	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.2.6 Baseline Groundwater Quality Table 4.2-5: Summary Statistics for Baseline Groundwater Quality	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.4.2	64	Existing Conditions	Characterization of the baseline hydrogeological setting and groundwater flow regime of the Project.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	4.2.5 Baseline Groundwater Quantity	4.4-A Groundwater Technical Report for the Tenas Coal Project, Telkwa. (SRK)
4.4.3	64	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5. Assessment of Project-related Effects	n/a
4.4.3	64	Potential Effects	The Application will identify potential adverse effects to the Groundwater VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5. Assessment of Project-related Effects	n/a
4.4.3	64	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Groundwater VC resulting from activities within each phase of the Project. Interactions between Project components and activities and the Groundwater VC will be summarized.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5. Assessment of Project-related Effects	n/a
4.4.3	64	Potential Effects	The following potential effects will be assessed:	3	See below	See below	See below	See below
4.4.3	64	Potential Effects	Groundwater Quantity: Mining and pit dewatering may cause changes to ground surface and subsurface characteristics and development of water management components may change groundwater levels and discharge rates to creeks; and	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5.2.1 Groundwater Quantity Subcomponent	n/a
4.4.3	64	Potential Effects	Groundwater Quality: The potential loads associated with the weathering of pit walls, waste facilities, and control ponds can migrate via groundwater and change the groundwater quality.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5.2.2 Groundwater Quality Subcomponent	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.4.3	64-65	Potential Effects	Potential groundwater quantity effects will be assessed using numerical groundwater flow models that follow the Guidelines for Groundwater Modelling to Assess Impacts of Proposed Natural Resource Development Activities, prepared by BC Ministry of Environment (2012). The models will be calibrated to groundwater levels and baseflow estimates and the sensitivity of model parameters will be tested. Model results will be provided in the Groundwater Assessment Technical Report included as an appendix to the Application. Potential effects related to groundwater quality will be assessed with the site-wide water and load balance model utilizing results from the numerical groundwater flow models. All primary effects pathways will be carried forward for further evaluation of the residual effects.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5.2.1 Groundwater Quantity Subcomponent	4.4-A Groundwater Technical Report for the Tenas Coal Project, Telkwa. (SRK)
4.4.4	65	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5.3 Mitigation Measures	n/a
4.4.4	65	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Groundwater VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5.3 Mitigation Measures	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.4.5	65	Residual Effects	Residual Effects	3	Section 4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5.4 Residual Effects and Significance of Residual Effects	4.4-A Groundwater Technical Report for the Tenas Coal Project, Telkwa. (SRK) 4.4-B Tenas Project Water and Load Balance Model (SRK)
4.4.5	65	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context, as described in section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5.4.2 Groundwater Quantity Subcomponent; 5.4.3 Groundwater Quality Subcomponent; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
4.4.5	65	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	5.4.2 Groundwater Quantity Subcomponent; 5.4.3 Groundwater Quality Subcomponent; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.4.6	65	Cumulative Effects	Cumulative Effects	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
4.4.6	65	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	See below
4.4.6	65	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	6.1 Potential Cumulative Effects	n/a
4.4.6	65	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR; and	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	6.3 Cumulative Effects and Characterisation of Significance	n/a
4.4.6	65	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	6.2 Additional Mitigation Measures	n/a
4.4.7	65	Follow-up Strategy	Follow-up Strategy	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	8. Follow-up Strategy	n/a
4.4.7	65	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 3.9 Follow-up Strategy of this AIR.	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	11 Minesite Water Management Plan (MWMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.5	66	Aquatic Resources Valued Component	Aquatic Resources Valued Component		3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	n/a	n/a
4.5	66	Aquatic Resources Valued Component	The Project has the potential to affect aquatic resources in sub basins of the Telkwa River over which the Project is located (i.e., Tenas Creek, Goathorn Creek, and Four Creek), and in aquatic habitats downstream of proposed diversions and contact water discharge locations. Construction and Operation phases of the mine may have adverse effects on aquatic resources through change in water quality and in concentrations of contaminants in sediments that may affect the abundance, diversity, richness, and evenness of benthic invertebrates and periphyton.		3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	1. Introduction; <	

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.5	66	Aquatic Resources Valued Component	This VC assessment may support and be supported by the following VC assessments:	See below	See below	See below	See below	See below
4.5	66	Aquatic Resources Valued Component	Avian Species;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component (VC)	n/a
4.5	66	Aquatic Resources Valued Component	Atmospheric Environment;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
4.5	66	Aquatic Resources Valued Component	Fish and Fish Habitat;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
4.5	66	Aquatic Resources Valued Component	Groundwater;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component (VC)	n/a
4.5	66	Aquatic Resources Valued Component	Human Health.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				4	8 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component (VC)	n/a
4.5	66	Aquatic Resources Valued Component	Surface Water;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
4.5	66	Aquatic Resources Valued Component	Terrain and Soils;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
4.5	66	Aquatic Resources Valued Component	Vegetation; and	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6 Social Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component (VC)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.5	66	Aquatic Resources Valued Component	Wildlife.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component (VC)	n/a
4.5.1	67	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.4 Assessment Boundaries	n/a
4.5.1	67	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Aquatic Resources VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Aquatic Resources Local and Regional Study Areas	n/a
4.5.1	67	Context and Boundaries	The proposed LSA and RSA for the Aquatic Resources VC are described below and are illustrated in Figure 8 . The boundaries of the LSA and RSA encompass those instream areas that are likely influenced by Project-related habitat disturbance, water quality effects, and sedimentation and were chosen to correspond with those for the Fish and Fish Habit VC (Section 4.6 of the Application).	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Aquatic Resources Local and Regional Study Areas	n/a
4.5.1	67	Context and Boundaries	Aquatic Resources LSA: Fish habitats within the Project Footprint, Four Creek, and Tenas and Goathorn Creeks downstream of the mine footprint; and from 100 m upstream to 300 – 1000 m downstream on watercourses crossed by the Bypass Road.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.5.1	67	Context and Boundaries	Aquatic Resources RSA: Fish habitats in the Telkwa River watershed and in the tributaries to the Bulkley River crossed by the Bypass Road.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.5.1	67	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
4.5.1	68	Context and Boundaries	Figure 8 Aquatic Resources Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	Figure 3.2 1: Aquatic Resources Local and Regional Study Areas	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.5.2	69	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4. Existing Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4. Existing Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, list of the information provided in the baseline report, field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Aquatic Resources VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4. Existing Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	The following general approach is being taken to develop existing conditions for the Aquatic Resources VC:	3	See below	See below	See below	n/a
4.5.2	69	Existing Conditions	Summarize available existing aquatic resource information for the Project study areas including the historical surveys of water quality, sediment quality, and abundance, diversity, and richness of benthic invertebrates and periphyton;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.2 Scientific and Other Information; 4.1.3 Baseline Studies	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Sampling of sediments;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.3 Sediment Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Sediment samples were collected from six sites in the Project area in September 2017.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.3 Sediment Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.5.2	69	Existing Conditions	Sediment samples were collected from existing sites and four new sites in 2019.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.3 Sediment Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Whole sediment samples from streams were analyzed for pH, particle size, nutrients, total organic compounds, and metals.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.3 Sediment Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Sediments were compared to the current BC Ministry of Environment and Climate Change Strategy working sediment quality criteria (BC Ministry of Environment and Climate Change Strategy 2018) and sediment quality guidelines (CCME 2018).	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.3 Sediment Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Sampling of periphyton;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.1 Periphyton Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Periphyton biomass (as chlorophyll <i>a</i>) was sampled from six stream sites in 2017.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.1 Periphyton Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Periphyton samples were collected from existing sites and four new sites in 2019.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.1 Periphyton Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Periphyton density was calculated by dividing the total number of cells counted by the area sampled and corrected for subsampling.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.1 Periphyton Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Sampling of benthic invertebrates;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.2 Benthic Invertebrate Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	69	Existing Conditions	Kick net sampling was conducted once at each site in 2017.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.2 Benthic Invertebrate Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	70	Existing Conditions	The Canadian Aquatic Biomonitoring Network (CABIN) model was used for comparing relative stream health based on benthic invertebrate density and diversity.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.2 Benthic Invertebrate Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.2	70	Existing Conditions	Invertebrates were sorted and identified to the lowest possible taxonomic level (usually genus).	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.2 Benthic Invertebrate Sampling	4.1-C Tenas Project 2017 to 2019 Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.5.2	70	Existing Conditions	Instream Flow Methods (IFM);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.4 Instream Flow Methods (IFM)	n/a
4.5.2	70	Existing Conditions	Three IFM field surveys were conducted in 2019 to capture seasonal flows; and	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.4 Instream Flow Methods (IFM)	n/a
4.5.2	70	Existing Conditions	Overwintering surveys in 2019 and 2020 will complement IFM surveys.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.3.1.4 Instream Flow Methods (IFM)	n/a
4.5.2	70	Existing Conditions	Compilation of TEK where relevant and available.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.1 Traditional Knowledge (TK)	7.1-B Cultural Use Study
4.5.2	70	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Aquatic Resources VC, including:	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	Surface Water Quality Guidelines for the Protection of Aquatic Life in BC (Ministry of Environment 2018);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Water Sustainability Act</i> . SBC 2014. Chapter 15 (Prov BC 2014);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Canada Water Act</i> . RSC 1985 (GOC Canada 1985a);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Mines Act</i>. RSBC 1996. Chapter 293 (Prov BC 1996f);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Environmental Management Act</i> . SBC 2003. Chapter 53 (Prov BC 2003);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	Manual of British Columbia Hydrometric Standards (Ministry of Environment 2009);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Fisheries Act</i>. RSC 1985 (GOC 1985d);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Canadian Environmental Protection Act</i> . SC 1999 (GOC 1999);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	CCME guidelines (CCME 2018);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a

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4.5.2	70	Existing Conditions	Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (Ministry of Environment 2016);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	BC Field Sampling Manual (Clark 2002, 2013 edition);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Riparian Areas Protection Act</i>. SBC 1997. Chapter 21 (Prov BC 1997);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Species at Risk Act</i> (SARA). SC 2002 (GOC 2002);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	<i>Canadian Environmental Assessment Act</i>. 2012 (GOC 2012);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	British Columbia Conservation Data Centre (Ministry of Environment 2015);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	70	Existing Conditions	Fisheries and Oceans Canada Protection Policy Statement (Fisheries and Oceans Canada 2013);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	71	Existing Conditions	BC Water and Sediment Quality Guidelines (Ministry of Environment 2006);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	71	Existing Conditions	Canadian Sediment Quality Guidelines (CCME 2011); and	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	71	Existing Conditions	Canadian Tissue Residue Guidelines (CCME 2001).	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	2. Regulatory Context	n/a
4.5.2	71	Existing Conditions	The following Aquatic Resources VC technical reports will be provided with the Application:	3	See below	See below	See below	n/a
4.5.2	71	Existing Conditions	Telkwa Coal Project Aquatic Resources Assessment (Bustard 1985);	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.2 Scientific and Other Information	4.5-B Telkwa Coal Project Aquatic Resource Assessment. Prepared by D. Bustard and Associates for the Telkwa Coal Project: Smithers, BC.

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4.5.2	71	Existing Conditions	Assessment of Benthic Invertebrate and Juvenile Fish Populations in Goathorn and Tenas Creeks and the Lower Telkwa Rivers (Bustard 1984); and	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	4.1.2 Scientific and Other Information	4.5-A Assessment of Benthic Invertebrate and Juvenile Fish Populations in Goathorn and Tenas Creeks and the Lower Telkwa Rivers (Bustard 1984)
4.5.2	71	Existing Conditions	Tenas Project: 2017 to 2019 Baseline Report (ERM 2020).	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3. Scope of the Assessment; 4. Existing Conditions	4.1-C Tenas Project 2017 to 2019 Baseline Report
4.5.3	71	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5. Assessment of Project-related Effects	n/a
4.5.3	71	Potential Effects	The Application will identify potential adverse effects to the Aquatic Resources VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5. Assessment of Project-related Effects	n/a
4.5.3	71	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Aquatic Resources VC resulting from Project activities within each phase of the Project. The Application will identify and evaluate the anticipated interactions between the Project and the VC.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5. Assessment of Project-related Effects	n/a
4.5.3	71	Potential Effects	The following potential effects will be assessed:	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5. Assessment of Project-related Effects	n/a
4.5.3	71	Potential Effects	Change in water quality due to releases of suspended sediments, mine contact water, blast residues, and flow alterations;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5.2.1 Change in Water Quality (All Project Phases)	n/a
4.5.3	71	Potential Effects	Change in sediment quality due to releases of suspended sediments, mine contact water, blast residues, and flow alterations; and	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5.2.2 Change in Sediment Quality (All Project Phases)	n/a
4.5.3	71	Potential Effects	Change in the abundance and community structure of periphyton and benthic invertebrates.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5.2.3 Change in Periphyton and Benthic Invertebrates (All Project Phases)	n/a

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4.5.4	71	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5.3 Mitigation Measures	n/a
4.5.4	71	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Aquatic Resources VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	2 Air Quality Management Plan (AQMP); 4 Construction Environmental Management Plan (CEMP); 5 Discharge Management Plan (DMP); 7 Fuel Management and Spill Control Plan (FMSCP); 9 Mine Emergency Response Plan (MERP); 17 Surface Erosion Prevention and Sediment Control Plan (SEPSCP); 18 Vegetation Management Plan (VMP); 21 Wildlife Management Plan	n/a	n/a
4.5.5	71	Residual Effects	Residual Effects	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.5.5	71	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context, as described in Section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a

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4.5.5	72	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.5.6	72	Cumulative Effects	Cumulative Effects	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
4.5.6	72	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	n/a
4.5.6	72	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	6. Cumulative Effects Assessment (CEA) Table 6.1 1: Projects Included in the Cumulative Effects Assessment (CEA) with Potential Interactions with Aquatic Resources Residual Effects Figure 6.1 1: Map of Projects and Activities for Cumulative Effects Assessment	n/a
4.5.6	72	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR; and	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	6. Cumulative Effects Assessment (CEA); 6.3 Cumulative Effects and Characterisation of Significance 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a
4.5.6	72	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	6.2 Additional Mitigation Measures	n/a
4.5.6	72	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	6.3 Cumulative Effects and Characterisation of Significance 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a

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4.5.7	72	Follow-up Strategy	Follow-up Strategy	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	8. Follow-up Strategy	n/a
4.5.7	72	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 3.9 Follow-up Strategy of this AIR.	3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	2 Air Quality Management Plan (AQMP); 4 Construction Environmental Management Plan (CEMP); 5 Discharge Management Plan (DMP); 7 Fuel Management and Spill Control Plan (FMSCP); 9 Mine Emergency Response Plan (MERP); 17 Surface Erosion Prevention and Sediment Control Plan (SEPSCP); 18 Vegetation Management Plan (VMP); 21 Wildlife Management Plan	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.6	72	Fish and Fish Habitat Valued Component	Fish and Fish Habitat Valued Component		3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	n/a	n/a
4.6	72	Fish and Fish Habitat Valued Component	The Project has the potential to affect fish and fish habitat in sub-basins of the Telkwa River in which the Project is located (i.e., Tenas Creek, Goathorn Creek, and Four Creek), and in aquatic habitats downstream of proposed diversions and contact water discharge locations. Construction and Operation phases of the mine may have adverse effects on fish and fish habitat through direct mortality of fish, alterations or destruction of fish habitat, change in base flows, and in the degradation of water quality. Due to their position as a top predator in the aquatic food chain, fish are important as an indicator of overall aquatic health. They are also important for their recreational, ceremonial, and food value to both Indigenous and other users.		3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	n/a	n/a
4.6	73	Fish and Fish Habitat Valued Component	The Fish and Fish Habitat VC will include the following subcomponents and associated indicators.		3	See below	See below	See below	n/a
4.6	73	Fish and Fish Habitat Valued Component	Subcomponent	Indicators	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
			Fish Habitat	Change in areal extent permanently altered, destroyed or made inaccessible to fish					
			Fish	Change in: - Fish health - Abundance - Condition					
4.6	73	Fish and Fish Habitat Valued Component	This VC assessment may support and be supported by the following VC assessments:		3	See below	See below	See below	n/a
4.6	73	Fish and Fish Habitat Valued Component	Aquatic Resources;		3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
					3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component (VC)	n/a
4.6	73	Fish and Fish Habitat Valued Component	Atmospheric Environment;		3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
					3	4 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
4.6	73	Fish and Fish Habitat Valued Component	Avian Species;		3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
					3	4 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component (VC)	n/a
4.6	73	Fish and Fish Habitat Valued Component	Groundwater;		3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
					3	4 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component (VC)	n/a
4.6	73	Fish and Fish Habitat Valued Component	Human Health;		3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
					4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component (VC)	n/a

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4.6	73	Fish and Fish Habitat Valued Component	Land and Resource Use;	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
4.6	73	Fish and Fish Habitat Valued Component	Surface Water;	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
4.6	73	Fish and Fish Habitat Valued Component	Terrain and Soils;	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
4.6	73	Fish and Fish Habitat Valued Component	Vegetation; and	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6 Social Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component (VC)	n/a
4.6	73	Fish and Fish Habitat Valued Component	Wildlife.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component (VC)	n/a
4.6.1	73	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.4 Assessment Boundaries	n/a
4.6.1	73	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Fish and Fish Habitat VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Fish and Fish Habitat Local and Regional Study Areas	n/a
4.6.1	73	Context and Boundaries	The proposed LSA and RSA for the Fish and Fish Habitat VC are described below and are illustrated in Figure 9 . They coincide with the spatial boundaries of the Aquatic Resources VC (section 4.5 of this AIR). The LSA includes instream and riparian areas that are likely to be influenced by Project-related habitat disturbance, water quality effects, and sedimentation. The RSA includes those instream and riparian areas in which Project-related effects may interact with effects from other projects.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.4 Assessment Boundaries; Table 3.2 3: Spatial Boundary Definitions for Fish and Fish Habitat Valued Component (VC); Figure 3.2 1: Fish and Fish Habitat Local and Regional Study Areas	n/a
4.6.1	73	Context and Boundaries	Fish and Fish Habitat LSA: Fish habitats within the Project Footprint, Four Creek, and Tenas and Goathorn Creeks downstream of the mine footprint; and from 100 m upstream to 300 – 1000 m downstream on watercourses crossed by the Bypass Road.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.6.1	74	Context and Boundaries	Fish and Fish Habitat RSA: Fish habitats in the Telkwa River watershed and in the tributaries to the Bulkley River crossed by the Bypass Road.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.6.1	74	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a

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4.6.1	75	Context and Boundaries	Figure 9 Fish and Fish Habitat Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	Figure 3.2 1: Fish and Fish Habitat Local and Regional Study Areas	n/a
4.6.2	76	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4. Existing Conditions	Appendix 4.6-A 1982 <i>Investigations of Adult Coho Salmon in the Telkwa River. Smithers, BC: Produced by Dave Bustard and Associates for Crowsnest Resources Ltd. February, 1983</i> 4.6-B Stream Assessment Report, Feasibility Road Design Phase 2, Telkwa Metallurgical Coal Project, prepared by DWB Consulting Services Ltd., 2018; 4.6-C Stream Assessment Report, Feasibility Road Design Phase 2, Telkwa Metallurgical Coal Project, prepared by DWB Consulting Services Ltd., 2020 Appendix 4.6-D Fish Habitat Offsetting–Phase 1 Feasibility Planning, prepared by Hemmera, 2021

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4.6.2	76	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4. Existing Conditions	4.6-A 1982 Investigations of Adult Coho Salmon in the Telkwa River. Smithers, BC; 4.6-B Stream Assessment Report, Feasibility Road Design Phase 2, Telkwa Metallurgical Coal Project, prepared by DWB Consulting Services Ltd., 2018; 4.6-C Stream Assessment Report, Feasibility Road Design Phase 2, Telkwa Metallurgical Coal Project, prepared by DWB Consulting Services Ltd., 2020 Appendix 4.6-D Fish Habitat Offsetting–Phase 1 Feasibility Planning, prepared by Hemmera, 2021
4.6.2	76	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, a list of the information provided in the baseline report, and field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Fish and Fish Habitat VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4. Existing Conditions	n/a
4.6.2	76	Existing Conditions	The following general approach is being taken to develop existing conditions for the Fish and Fish Habitat VC:	3	See below	See below	See below	n/a
4.6.2	76	Existing Conditions	Summarize available existing fisheries inventory and habitat use information for the Project study areas including the occurrence and distribution of indicators, as well as information on habitat use.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4.1.2 Scientific and Other Information	n/a
4.6.2	76	Existing Conditions	Sampling for fish to determine fish presence, species composition and distribution, and to collect fish tissue for metals analysis at receiving and reference sites.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4.1.3 Baseline Studies	n/a

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4.6.2	76	Existing Conditions	Identification of species and maturity for captured fish and measurement of length, weight, condition, and age.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4.1.3 Baseline Studies; 4.2.3 Fish Subcomponent	n/a
4.6.2	76	Existing Conditions	Assessment of stream habitat for indicator species within the LSA based on known species distributions and species captured during fish sampling.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4.1.3 Baseline Studies; 4.2.2 Fish Habitat Subcomponent	n/a
4.6.2	76	Existing Conditions	Compilation of TEK where relevant and available.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4.1.1 Traditional Knowledge (TK)	n/a
4.6.2	76	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Fish and Fish Habitat VC, including:	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	2. Regulatory Context	n/a
4.6.2	76	Existing Conditions	<i>Fisheries Act</i> RSC 1985 (GOC 1985d);	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	2.1 Fisheries Act	n/a
4.6.2	76	Existing Conditions	<i>Water Sustainability Act</i>. SBC 2014. Chapter 15 (Prov BC 2014);	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	2.2 Species at Risk Act	n/a
4.6.2	76	Existing Conditions	<i>Species at Risk Act</i> (SARA). SC 2002 (GOC 2002);	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	2.3 Water Sustainability Act	n/a
4.6.2	76	Existing Conditions	<i>Canadian Navigable Waters Act</i>. RSC 1985 (GOC 1985c);	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	2.4 Other Regulatory Guidance	n/a
4.6.2	76	Existing Conditions	<i>Mines Act</i>. RSBC 1996. Chapter 293 (Prov BC 1996f);	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	2.4 Other Regulatory Guidance	n/a
4.6.2	77	Existing Conditions	<i>Environmental Management Act</i>. SBC 2003. Chapter 53 (Prov BC 2003); and	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	2.4 Other Regulatory Guidance	n/a
4.6.2	77	Existing Conditions	Metal Mining Environmental Effects Monitoring Technical Guidance Document (Environment Canada 2011).	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	2.4 Other Regulatory Guidance	n/a
4.6.2	77	Existing Conditions	The following Fish and Fish Habitat VC technical reports will be provided with the Application:	3	See below	See below	See below	n/a
4.6.2	77	Existing Conditions	1982 Investigations of Adult Coho Salmon in the Telkwa River (Bustard 1983);	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4.1.2 Scientific and Other Information	4.6-A 1982 Investigations of Adult Coho Salmon in the Telkwa River. Smithers, BC
4.6.2	77	Existing Conditions	Assessment of Benthic Invertebrate and Juvenile Fish Populations in Goathorn and Tenas Creeks and the Lower Telkwa River (Bustard 1984); and	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4.1.2 Scientific and Other Information	4.5-A Assessment of Benthic Invertebrate and Juvenile Fish Populations in Goathorn and Tenas Creeks and the Lower Telkwa Rivers (Bustard 1984)
4.6.2	77	Existing Conditions	Tenas Project: 2017 to 2019 Baseline Report (ERM 2020).	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	4.1.3.1	4.1-C Tenas Project: 2017 to 2019 Baseline Report (ERM 2020)

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4.6.3	77	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5 Assessment of Project-related Effects	n/a
4.6.3	77	Potential Effects	The Application will identify potential adverse effects to the Fish and Fish Habitat VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5 Assessment of Project-related Effects	n/a
4.6.3	77	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Fish and Fish Habitat VC resulting from Project activities within each phase of the Project. Interactions between Project components and activities and the Fish and Fish Habitat VC will be summarized.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.1 Potential Project-related Interactions with the Fish and Fish Habitat Valued Component (VC); 5.2 Potential Project-related Effects	n/a
4.6.3	77	Potential Effects	The following potential effects will be assessed:	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.2 Potential Project-related Effects	n/a
4.6.3	77	Potential Effects	Change in the aerial extent of available fish habitat due to destruction, alteration, change in baseflows, degradation of water quality, or creation of barriers to fish passage; and	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.2.1.1 Change in Fish Habitat	n/a
4.6.3	77	Potential Effects	Change in health, abundance, or condition of fish due to direct impacts, stranding, or degradation of water quality.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.2.2.1 Change in Fish Health	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.6.4	77	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.3 Mitigation Measures	Appendix 4.6-D Fish Habitat Offsetting–Phase 1 Feasibility Planning, prepared by Hemmera, 2021
4.6.4	77	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Fish and Fish Habitat VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	3 Chemicals and Materials, Storage, Transfer, and Handling Plan (CMSTHP); 4 Construction Environmental Management Plan (CEMP); 5 Discharge Management Plans (DMP); 6 Explosives Management Plan (EMP); 7 Fuel Management and Spill Control Plan (FMSCP); 9 Mine Emergency Response Plan (MERP) 11 Minesite Water Management Plan (MWMP); 12 Metal Leaching (ML)/Acid Rock Drainage (ARD) Management Plan (ML/ARDMP); 15 Reclamation and Closure Plan (RCP); 17 Surface Erosion Protection and Sediment Control Plan (SEPSCP); 20 Waste Management Plan for Refuse and Emissions (WMPRE)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.6.5	77	Residual Effects	Residual Effects	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.6.5	77	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context, as described in section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project related Adverse Residual Effects and Significance	n/a
4.6.5	78	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project related Adverse Residual Effects and Significance	n/a
4.6.6	78	Cumulative Effects	Cumulative Effects	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	6. Cumulative Effects Assessment (CEA) – Fish Habitat	n/a
4.6.6	78	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	n/a
4.6.6	78	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	6. Cumulative Effects Assessment (CEA) – Fish Habitat; Table 6.1 1: Projects Included in the Cumulative Effects Assessment (CEA) with Potential Interactions with Fish Habitat Residual Effects; Figure 6.1 1: Map of Projects and Activities for Cumulative Effects Assessment	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.6.6	78	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a
4.6.6	78	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	6.1.2 Additional Mitigation Measures	n/a
4.6.6	78	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.6.7	78	Follow-up Strategy	Follow-up Strategy	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	8. Follow-up Strategy	n/a
4.6.7	78	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 3.9 Follow-up Strategy of this AIR.	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	3 Chemicals and Materials, Storage, Transfer, and Handling Plan (CMSTHP); 4 Construction Environmental Management Plan (CEMP); 5 Discharge Management Plans (DMP); 6 Explosives Management Plan (EMP); 7 Fuel Management and Spill Control Plan (FMSCP); 9 Mine Emergency Response Plan (MERP) 11 Minesite Water Management Plan (MWMP); 12 Metal Leaching (ML)/Acid Rock Drainage (ARD) Management Plan (ML/ARDMP); 15 Reclamation and Closure Plan (RCP); 17 Surface Erosion Protection and Sediment Control Plan (SEPSCP); 20 Waste Management Plan for Refuse and Emissions (WMPRE)	n/a	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.7	79	Vegetation Valued Component	Vegetation Valued Component	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	n/a	n/a
4.7	79	Vegetation Valued Component	The landscape where the Project is located is primarily sub-boreal spruce forest that has experienced forest harvesting over the last 40 years, creating a mosaic of young to mature forest types. The Project has potential to alter forests, wetlands, ecological communities, culturally important plant species and rare plants or lichens. This section of the Application will present the Subcomponents, indicators, and boundaries of the assessment for the Vegetation VC, potential Project-related effects, and analysis of potential residual effects. There will be cross references to other relevant VC assessment sections.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
4.7	79	Vegetation Valued Component	The Vegetation VC will include the following subcomponents and their associated indicators:	3	See below	See below	See below	See below
4.7	79	Vegetation Valued Component	Subcomponent	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
			Indicators					
			Old Growth Forest					
			Wetlands (including biodiversity, water quantity and quality, and habitat function)					
			Listed Ecological Communities					
			Culturally Important Species					
			Rare Plants and Lichens					
4.7	79	Vegetation Valued Component	This VC assessment may support and be supported by the following VC assessments:	See below	See below	See below	See below	See below

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.7	79	Vegetation Valued Component	Avian Species;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Aquatic Resources;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Atmospheric Environment	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Fish and Fish Habitat;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Groundwater;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Heritage Resources;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				4	4.0 Environmental Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Human Health;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				4	8.0 Health Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Land and Resource Use;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Surface Water;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Terrain and Soils;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component	n/a
4.7	79	Vegetation Valued Component	Visual Resources; and	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				4	6.0 Social Effects Assessment	2 Visual Resources Valued Component	3.2.1 Valued Component	n/a
4.7	80	Vegetation Valued Component	Wildlife.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.7.1	80	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.4 Assessment Boundaries	n/a
4.7.1	80	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Vegetation VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Spatial assessment boundaries for the Vegetation Valued Component; Table 3.2-4 Temporal Boundaries for the Tenas Project	n/a
4.7.1	80	Context and Boundaries	The proposed LSA and RSA for the Vegetation VC are described below and are illustrated in Figure 10. The Vegetation LSA includes all areas that have potential for direct and indirect effects on vegetation resources as a result of the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. The RSA is designed to provide context for regionally available vegetation resources for the assessment of both residual and cumulative effects. The boundaries are consistent with the extent of Predictive Ecosystem Mapping (PEM; at a regional scale), and TEM (at a local scale):	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2 1: Spatial assessment boundaries for the Vegetation Valued Component;	n/a
4.7.1	80	Context and Boundaries	Vegetation LSA: includes the Project Area with a 250 m buffer on gravel quarries and linear infrastructure outside of the Rail Loop, Minesite and Mine Infrastructure Complex (i.e., roads, powerlines, pipelines), and a 500 m buffer around all other infrastructure (e.g., Rail Loop, Explosives Facility and Magazine, pit). A wetland complex located downgradient from the Project was also included within the Vegetation LSA to encompass potential indirect effects on wetlands.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.4.1 Spatial Boundaries;	n/a
4.7.1	80	Context and Boundaries	Vegetation RSA: includes a minimum of a 5 km buffer around the Project Area.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.7.1	80	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and the Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.4.2 Temporal Boundaries; Table 3.2 4: Temporal Boundaries for the Tenas Project	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.7.1	81	Context and Boundaries	Figure 10 Vegetation Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	Figure 3.2 1: Assessment boundaries for the Vegetation Valued Component (VC)	n/a
4.7.2	82	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4. Existing Conditions	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	82	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4. Existing Conditions	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	82	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, list of the information provided in the baseline report, field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the timeframe and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. Where available and appropriate, the Application will describe available traditional ecological or community knowledge related to the Vegetation VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following approach is being taken to develop existing conditions for the Vegetation VC:	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.1 Background Information and Studies	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	82	Existing Conditions	Desktop studies using publicly available information will be completed. Information sources may include but are not limited to existing TEM, PEM, Vegetation Resources Inventory, records of occurrences of species and ecosystems at risk according to the BC Conservation Data Centre, reports completed for relevant previous projects, and the scientific literature.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.1.2 Scientific and Other Information; 4.2 Description of Existing Conditions; 9. References	4.7-A Vegetation and Ecosystems Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.7.2	82	Existing Conditions	TEM will be completed for the Project Footprint according to the Standard for Terrestrial Ecosystem Mapping in British Columbia (Resources Inventory Committee 1998) at the 1:5,000 scale and survey intensity level (SIL 1/2) within the mine pit area and rail loadout, which indicates that 51 - 100% of the polygons will be inspected in the field to verify mapping accuracy. The remainder of the Project Footprint will be mapped at the 1:10,000 scale (SIL 2), which indicates that 51 to 75% of the polygons will be field verified.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.1.3 Baseline Studies; 4.2 Description of Existing Conditions	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	82	Existing Conditions	Field methodology will follow the Field Manual for Describing Terrestrial Ecosystems (BC Ministry of Forests and Range and BC Ministry of Environment 2010).	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.1.3 Baseline Studies; 4.2 Description of Existing Conditions	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	82	Existing Conditions	Ecosystems will be classified according to the Biogeoclimatic Ecosystem Classification system and applicable site identification field guides (e.g., Banner et al. 1993).	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.1.3 Baseline Studies; 4.2 Description of Existing Conditions	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	82	Existing Conditions	Wetlands will be classified according to Wetlands of British Columbia: A Guide to Identification (MacKenzie and Moran 2004).	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.1.3 Baseline Studies; 4.2.2 Wetlands	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	82	Existing Conditions	Wetland functions (e.g., hydrologic, biochemical, ecological and habitat) will be assessed in the field using an adapted protocol following Wetland Ecological Functions Assessment: An Overview of Approaches (Hanson et al. 2008).	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.2.2 Wetlands	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	82	Existing Conditions	Invasive plants will be inventoried in the field and classified according to the <i>BC Weed Control Act</i> (Prov BC 1996).	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.2 Provincial Legislation and Requirements; Table 2.2-1 Summary of Provincial Legislation, Regulations and Policy Applicable to the Vegetation Valued Component (VC); 4.2.6 Invasive Plants	4.7-A Vegetation and Ecosystems Baseline Report

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4.7.2	82-83	Existing Conditions	Provincially and federally-listed rare plants and lichens will be surveyed according to the Protocols for Rare Plant Surveys (Penny and Klinkenberg 2018).	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.1.3 Baseline Studies; 4.2.5 Rare Plants and Lichens	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	83	Existing Conditions	Culturally important species will be identified through literature research and consultation with Indigenous Groups.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.2.4 Culturally Important Species	4.7-A Vegetation and Ecosystems Baseline Report
4.7.2	83	Existing Conditions	Where available and appropriate, TEK will be incorporated.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4.1.1 Traditional Knowledge	n/a
4.7.2	83	Existing Conditions	The Application will identify applicable provincial and federal legislation, policies, BMPs and guidance documents related to the Vegetation VC, including:	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2. Regulatory Context	n/a
4.7.2	83	Existing Conditions	<i>Forest and Range Practices Act</i> . SBC 2002. Chapter 69 (Prov BC 2002d);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.2 Provincial Legislation and Regulations	n/a
4.7.2	83	Existing Conditions	<i>Species at Risk Act (SARA)</i> . SC 2002 (GOC 2002);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.1 Federal Legislation and Regulations; Table 2.1 1: Summary of Federal Legislation, Regulations and Policy Applicable to the Vegetation Valued Component (VC)	n/a
4.7.2	83	Existing Conditions	<i>Mines Act</i>. RSBC 1996. Chapter 293 (Prov BC 1996f);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.2 Provincial Legislation and Regulations; Table 2.2 1: Summary of Provincial Legislation, Regulations and Policy Applicable to the Vegetation Valued Component (VC)	n/a
4.7.2	83	Existing Conditions	<i>Health, Safety and Reclamation Code for Mines in British Columbia</i> (Prov BC 2017);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.3 Strategies, Guidelines, Plans, and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans and Best Management Practices (BMPs) Applicable to the Vegetation Valued Component (VC)	n/a

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4.7.2	83	Existing Conditions	<i>Weed Control Act</i>. RSBC 1996. Chapter 487 (Province of BC 1996b) and Weed Control Regulations (Prov BC 2011);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.2 Provincial Legislation and Regulations; Table 2.2 1: Summary of Provincial Legislation, Regulations and Policy Applicable to the Vegetation Valued Component (VC)	n/a
4.7.2	83	Existing Conditions	Bulkley Land and Resource Management Plan (Prov BC 1998a);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.4 Land Use Plans	n/a
4.7.2	83	Existing Conditions	Standard for Terrestrial Ecosystem Mapping in British Columbia (Resources Inventory Committee 1998);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.3 Strategies, Guidelines, Plans, and Best Management Practices (BMPs)	n/a
4.7.2	83	Existing Conditions	The Federal Policy on Wetland Conservation (GOC 1991);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.1 Federal Legislation and Regulations	n/a
4.7.2	83	Existing Conditions	Wetland Ways: Interim Guidelines for Wetland Protection and Conservation in British Columbia. Wetland Stewardship Partnership (Prov BC 2009);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.3 Strategies, Guidelines, Plans, and Best Management Practices (BMPs)	n/a
4.7.2	83	Existing Conditions	<i>Environmental Management Act</i>. SBC 2003. Chapter 53 (Prov BC 2003);	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.2 Provincial Legislation and Regulations; Table 2.2 1: Summary of Provincial Legislation, Regulations and Policy Applicable to the Vegetation Valued Component (VC)	n/a
4.7.2	83	Existing Conditions	<i>Water Sustainability Act</i>. Chapter 15 (Prov BC 2014); and	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.2 Provincial Legislation and Regulations; Table 2.2 1: Summary of Provincial Legislation, Regulations and Policy Applicable to the Vegetation Valued Component (VC)	n/a

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4.7.2	83	Existing Conditions	North West Invasive Plant Council (NWIPC 2018).	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	2.3 Strategies, Guidelines, Plans, and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans and Best Management Practices (BMPs) Applicable to the Vegetation Valued Component (VC)	n/a
4.7.2	83	Existing Conditions	The following Vegetation VC technical report will be provided as an appendix to the Application:	3	See below	See below	See below	n/a
4.7.2	83	Existing Conditions	Ecosystems and Vegetation Baseline Report.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	4. Existing Conditions	4.7-A Vegetation and Ecosystems Baseline Report
4.7.3	83	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5. Assessment of Project-Related Effects	n/a
4.7.3	83	Potential Effects	The Application will identify potential adverse effects to the Vegetation VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5. Assessment of Project-Related Effects	n/a
4.7.3	84	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Vegetation VC resulting from Project activities within each phase of the Project. Interactions between Project components and activities and the Vegetation VC will be summarized.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5.1 Potential Project-related Interactions with the Vegetation Valued Component; 5.2 Potential Project-related Effects	n/a
4.7.3	84	Potential Effects	The following potential effects will be assessed for all phases of the Project:	3	See below	See below	See below	See below
4.7.3	84	Potential Effects	Alteration and/or loss of vegetation, ecosystems and wetlands from land clearing and mine Construction and Operation phases; and	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5.2 Potential Project-related Effects; 5.2.1 Alteration/Loss of Vegetation, Ecosystems, and Wetlands - All Subcomponents	n/a
4.7.3	84	Potential Effects	Deposition of trace metals on plants and soil, which can result in uptake by plants during Construction and Operation phases.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5.2 Potential Project-related Effects; 5.2.2 Trace Metals Deposition - All Subcomponents	n/a

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4.7.4	84	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5.3 Mitigation Measures	n/a
4.7.4	84	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Vegetation VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	18 Vegetation Management Plan (VMP)	n/a	n/a
4.7.5	84	Residual Effects	Residual Effects	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.7.5	84	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context, as described in section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.7.5	84	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.7.6	84	Cumulative Effects	Cumulative Effects	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
4.7.6	84	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.7.6	84	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	6. Cumulative Effects Assessment (CEA); 6.1 Potential Cumulative Effects; Table 6.1 1. Projects Included in the Cumulative Effects Assessment (CEA) For the Vegetation Valued Component (VC) Based on Spatial and Temporal Interaction; Figure 6.1 1: Projects included in the Cumulative Effects Assessment for the Vegetation VC; 6.3 Cumulative Effects and Characterisation of Significance by Subcomponent; 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a
4.7.6	84	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	6.3 Cumulative Effects and Characterisation and of Significance by Subcomponent; 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a
4.7.6	84	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	6.2 Additional Mitigation Measures	n/a
4.7.6	84-85	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	6.3 Cumulative Effects and Characterisation and of Significance by Subcomponent; 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a
4.7.7	85	Follow-up Strategy	Follow-up Strategy	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	8. Follow-up Strategy	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.7.7	85	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 3.9 Follow-up Strategy of this AIR.	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	18 Vegetation Management Plan (VMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8	85	Wildlife Valued Component	Wildlife Valued Component	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	n/a	n/a
4.8	85	Wildlife Valued Component	The landscape where the Project is located primarily sub-boreal spruce forest that has experienced forest harvesting over the last 40 years creating a mosaic of young to mature forest types. There is a range of mixed and coniferous forested ecological communities, small wetlands, and open water areas. The disturbed nature of the landscape influences the type and abundance of wildlife present. Wildlife species identified as having historic or current use, include ungulates (caribou, moose, mule deer, white-tailed deer and elk), bears (black and grizzly bear), furbearers (wolf, lynx, coyote, fisher, marten, ermine), small mammals (squirrels, voles, mice), bats, reptiles (common garter snake) and amphibians (western toad, Columbia spotted frog, long-toed salamander). This section of the Application will present the Subcomponents, indicators, and boundaries of the assessment for the Wildlife VC, potential Project-related effects, and analysis of potential residual effects. There will be cross references to other relevant VC assessment sections.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
4.8	85	Wildlife Valued Component	The Wildlife VC will include the following subcomponents and their associated indicators:	3	See below	See below	See below	n/a
4.8	85	Wildlife Valued Component	Subcomponent Indicators Furbearers (American marten (<i>Martes americana</i>); Wolverine (<i>Gulo gulo</i>), Fisher (<i>Pekania pennanti</i>)) Change in: Caribou (<i>Rangifer tarandus</i>) (northern mountain population) - Habitat, including direct and indirect disturbance (including sensory disturbance) Grizzly Bear (<i>Ursus arctos</i>) - Mortality Moose (<i>Alces americanus</i>) - Movement (as an Indicator for grizzly bear, caribou, wolverine, and Western toad; qualitative analysis for marten, moose and bats based on available information) Bats (Little Brown myotis (<i>Myotis lucifugus</i>), Northern myotis (<i>Myotis septentrionalis</i>)) Western Toad (<i>Anaxyrus boreas</i>);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8	85	Wildlife Valued Component	This VC assessment may support and be supported by the following VC assessments:	3	See below	See below	See below	n/a
4.8	85	Wildlife Valued Component	• Avian Species;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.8	85	Wildlife Valued Component	• Aquatic Resources;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component	n/a
4.8	85	Wildlife Valued Component	• Atmospheric Environment;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component	n/a
4.8	85	Wildlife Valued Component	• Fish and Fish Habitat;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component	n/a
4.8	85	Wildlife Valued Component	• Groundwater;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
4.8	86	Wildlife Valued Component	• Heritage Resources;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				4	4.0 Environmental Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component	n/a
4.8	86	Wildlife Valued Component	• Human Health;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				4	8.0 Human Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
4.8	86	Wildlife Valued Component	• Land and Resource Use;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component	n/a
4.8	86	Wildlife Valued Component	• Surface Water;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component	n/a
4.8	86	Wildlife Valued Component	• Terrain and Soils;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component	n/a
4.8	86	Wildlife Valued Component	• Vegetation; and	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
4.8	86	Wildlife Valued Component	• Visual Resources.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				4	6.0 Social Effects Assessment	2 Visual Resources Valued Component	3.2.1 Valued Component	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.1	86	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4 Assessment Boundaries	n/a
4.8.1	86	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Wildlife VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4 Assessment Boundaries	n/a
4.8.1	86	Context and Boundaries	The proposed LSA and RSA for the Wildlife VC are described below and are illustrated in Figure 11A-C .	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2 1: Spatial assessment boundaries for the Wildlife Valued Component - Furbearers, Grizzly Bear, Moose, Bats and Western Toad subcomponents; Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a
4.8.1	86	Context and Boundaries	Wildlife LSA: designed to capture potential direct and indirect effects of the Project's Construction, Operation, and Decommissioning and Reclamation phases. It includes the Project Area plus a minimum of a 5 km buffer.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2 3: Spatial Boundary Definitions for the Wildlife Valued Component (VC) and Subcomponents Figure 3.2 1: Spatial assessment boundaries for the Wildlife Valued Component - Furbearers, Grizzly Bear, Moose, Bats and Western Toad subcomponents; Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.1	86	Context and Boundaries	Wildlife RSA: designed to include regionally available habitat for wildlife species that have been selected as subcomponents. Three separate RSAs are proposed relative to species’ range:	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2 3: Spatial Boundary Definitions for the Wildlife Valued Component (VC) and Subcomponents Figure 3.2 1: Spatial assessment boundaries for the Wildlife Valued Component - Furbearers, Grizzly Bear, Moose, Bats and Western Toad subcomponents; Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a
4.8.1	86	Context and Boundaries	Wildlife RSA: Intersection of all watersheds that overlap a 10 km buffer around the Project Area (Figure 11-B);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2 3: Spatial Boundary Definitions for the Wildlife Valued Component (VC) and Subcomponents Figure 3.2 1: Spatial assessment boundaries for the Wildlife Valued Component - Furbearers, Grizzly Bear, Moose, Bats and Western Toad subcomponents; Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.1	86	Context and Boundaries	Wide-ranging Wildlife RSA: Bulkley watershed excluding biogeoclimatic zones that are associated with coastal ecosystems (Figure 11-B); and	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2 3: Spatial Boundary Definitions for the Wildlife Valued Component (VC) and Subcomponents Figure 3.2 1: Spatial assessment boundaries for the Wildlife Valued Component - Furbearers, Grizzly Bear, Moose, Bats and Western Toad subcomponents; Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a
4.8.1	86	Context and Boundaries	Caribou RSAs: Three RSAs will be used for assessments for caribou, as per recommendations from ECCC and the Province: the 2014 ECCC Critical Habitat area (RSA1) (ECCC 2014), the 2019 Provincial Core habitat (RSA2 Core) (Dodd and Carswell 2019), and Matrix habitat (RSA2 Matrix) (Dodd and Carswell 2019) types. RSA1 corresponds to existing provincial management areas for the Telkwa Caribou Herd (TCH), such as the TCH Wildlife Habitat Area (Figure 11C)	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2 3: Spatial Boundary Definitions for the Wildlife Valued Component (VC) and Subcomponents Figure 3.2 1: Spatial assessment boundaries for the Wildlife Valued Component - Furbearers, Grizzly Bear, Moose, Bats and Western Toad subcomponents; Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.1	86	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
4.8.1	87	Context and Boundaries	Figure 11A Wildlife and Caribou Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	Figure 3.2 1: Spatial assessment boundaries for the Wildlife Valued Component - Furbearers, Grizzly Bear, Moose, Bats and Western Toad subcomponents; Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a
4.8.1	88	Context and Boundaries	Figure 11B Wildlife Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	Figure 3.2 1: Spatial assessment boundaries for the Wildlife Valued Component - Furbearers, Grizzly Bear, Moose, Bats and Western Toad subcomponents Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a
4.8.1	89	Context and Boundaries	Figure 11C Caribou Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	Figure 3.2 2: Spatial assessment boundaries for the Wildlife Valued Component -Caribou subcomponent	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.2	90	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4 Existing Conditions	4.8-A Wildlife Baseline Report
4.8.2	90	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4 Existing Conditions	4.8-A Wildlife Baseline Report
4.8.2	90	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, list of the information provided in the baseline report, field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Wildlife VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Wildlife VC:	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1 Background Information and Studies	4.8-A Wildlife Baseline Report
4.8.2	90	Existing Conditions	Desktop studies using publicly available information will be completed. Information sources may include but are not limited to available existing wildlife inventory and habitat use information for the Project study areas including occurrence, distribution and population status as well as travel corridors and potential breeding areas where available.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1 Background Information and Studies; 9. References	4.8-A Wildlife Baseline Report
4.8.2	90	Existing Conditions	Habitat suitability following provincial standards will be modelled and results will be incorporated into the assessment of potential effects on habitat availability for Subcomponent species.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1.3 Baseline Studies	4.8-A Wildlife Baseline Report
4.8.2	90	Existing Conditions	Caribou habitat analysis will follow the standard approach being used for caribou habitat assessment, including in other assessments in BC and in the Recovery Strategy for the Woodland Caribou, Southern Mountain Population (Environment Canada [EC] 2014), by applying a buffer around all disturbance features on the landscape.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1.3 Baseline Studies	4.8-A Wildlife Baseline Report
4.8.2	90	Existing Conditions	Project-related field studies will be summarized, including habitat assessment, species-specific and generalized wildlife surveys.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1.3 Baseline Studies	4.8-A Wildlife Baseline Report

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4.8.2	90	Existing Conditions	Element occurrence records from sources such as the BC Conservation Data Centre and the BC Wildlife Species Inventory Database will be summarized.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1.3 Baseline Studies	4.8-A Wildlife Baseline Report
4.8.2	90	Existing Conditions	TEK will be incorporated where relevant and available.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1.1 Traditional Knowledge (TK)	7.1-B Cultural Use Study
4.8.2	90	Existing Conditions	The Application will identify applicable provincial and federal legislation, policies, BMPs and guidance documents related to the Wildlife VC, including:	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2. Regulatory Context	n/a
4.8.2	90	Existing Conditions	<i>Forest and Range Practices Act</i> . SBC 2002. Chapter 69 (Prov BC 2002d);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.1 Federal Legislation and Regulations; Table 2.1 1: Summary of Federal Legislation, Regulations, and Policy Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	90	Existing Conditions	<i>Species at Risk Act (SARA)</i> . S.C. 2002 (GOC 2002);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.1 Federal Legislation and Regulations; Table 2.1 1: Summary of Federal Legislation, Regulations, and Policy Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	90	Existing Conditions	<i>Wildlife Act</i> . RSBC 1996. Chapter 488 (Prov BC 1996j);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.1 Federal Legislation and Regulations; Table 2.1 1: Summary of Federal Legislation, Regulations, and Policy Applicable to the Wildlife Valued Component (VC)	n/a

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4.8.2	91	Existing Conditions	Canada Wildlife Act . RSC 1985 (GOC 1985b);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.1 Federal Legislation and Regulations; Table 2.1 1: Summary of Federal Legislation, Regulations, and Policy Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	Grizzly Bear Population Inventory and Monitoring Strategy for British Columbia (Apps 2010);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	Guidelines for Amphibian and Reptile Conservation during Urban and Rural Land Development in British Columbia (BC Ministry of Environment 2014);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a

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4.8.2	91	Existing Conditions	BC Furbearer Management Guidelines: Marten (BC Ministry of Forests Lands and Natural Resource Operations [MFLNRO] 2003);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	Management Plan for the Western Toad (Anaxyrus boreas) in Canada [Proposed] (Environment and Climate Change Canada 2016);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	Management Plan for the Western Toad (Anaxyrus boreas) in British Columbia (Provincial Western Toad Working Group 2014);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.2	91	Existing Conditions	A Future for Grizzly: British Columbia Grizzly Bear Management Strategy (BC Ministry of Environment, Lands and Parks 1995a);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	Conservation of Grizzly Bears in British Columbia. Background Report (BC Ministry of Environment, Lands and Parks 1995b);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	Grizzly Bears in British Columbia: Ecology, Conservation and Management (BC Ministry of Environment, Lands and Parks 2002);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.2	91	Existing Conditions	Provincial Caribou Recovery Program. 2017/18 Annual Report (BC Ministry of Environment, Lands and Parks 2019);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	Recovery Strategy for the Woodland Caribou, Southern Mountain Population (Rangifer tarandus caribou) in Canada [Proposed] (Environment Canada 2014);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	Provincial Framework for Moose Management in British Columbia (BC MFLNRO 2015); and	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.2	91	Existing Conditions	A Strategy to Help Restore Moose Populations in British Columbia (BC Ministry of Forests, Lands and Natural Resource Operations 2016).	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	2.3 Strategies, Guidelines, Plans and Best Management Practices (BMPs); Table 2.3 1: Summary of Strategies, Guidelines, Plans, and Best Management Practices (BMPs) Applicable to the Wildlife Valued Component (VC)	n/a
4.8.2	91	Existing Conditions	The following Wildlife VC technical reports will be referenced in the Application:	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	n/a	n/a
4.8.2	91	Existing Conditions	Telkwa Project: Vegetation – Forestry – Wildlife. Stage II Report for Crows Nest Resources Ltd. (Taesco Consultants Ltd. 1984);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1.2 Scientific and Other Information; Table 4.1 2: Summary of Previous Environmental Reports within the Wildlife Study Area	n/a
4.8.2	91	Existing Conditions	Wildlife North of the Telkwa River: A Stage II Assessment for the Proposed Telkwa Project (Hatler 1990);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	Table 4.1 2: Summary of Previous Environmental Reports within the Wildlife Study Area	n/a
4.8.2	92	Existing Conditions	Moose Habitat Capability/Suitability Mapping. Telkwa Coal Project (Manalta Coal Ltd. 1997c);	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	Table 4.1 2: Summary of Previous Environmental Reports within the Wildlife Study Area	n/a
4.8.2	92	Existing Conditions	Wildlife Assessment. Telkwa Coal Project (Manalta Coal Ltd. 1998); and	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	Table 4.1 2: Summary of Previous Environmental Reports within the Wildlife Study Area	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.2	92	Existing Conditions	Habitat selection and calf survival in the Telkwa caribou herd, British Columbia (Stronen 2000).	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	Table 4.1 2: Summary of Previous Environmental Reports within the Wildlife Study Area	4.8-A Wildlife Baseline Report
4.8.2	92	Existing Conditions	The following Wildlife VC technical report will be provided as an appendix to the Application:	3	See below	See below	See below	n/a
4.8.2	92	Existing Conditions	Wildlife Baseline Studies.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	4.1.3 Baseline Studies	4.8-A Wildlife Baseline Report
4.8.3	92	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5. Assessment of Project-Related Effects	n/a
4.8.3	92	Potential Effects	The Application will identify potential adverse effects to the Wildlife VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5. Assessment of Project-Related Effects	n/a
4.8.3	92	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Wildlife VC resulting from Project activities within each phase of the Project.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.2 Potential Project-related Effects	n/a
4.8.3	92	Potential Effects	Interactions between Project components and activities and the Wildlife VC will be summarized.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.1 Potential Project-related Interactions with the Wildlife Valued Component (VC); 5.2 Potential Project-related Effects	n/a
4.8.3	92	Potential Effects	The following potential effects will be assessed for all phases of the Project:	3	See below	See below	See below	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.3	92	Potential Effects	Alteration and/or loss of habitat;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.2.1.1 Alteration and/or Loss of Habitat; <i>and same subheading for each subcomponent:</i> 5.2.2.1, 5.2.3.1, 5.2.4.1, 5.2.5.1, 5.2.6.1, 5.2.7.1	n/a
4.8.3	92	Potential Effects	Change in mortality; and	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.2.1.2 Change in Mortality, <i>and same subheading for each subcomponent :</i> 5.2.2.2, 5.2.3.2, 5.2.4.2, 5.2.5.2, 5.2.6.2, 5.2.7.2	n/a
4.8.3	92	Potential Effects	Change in movement patterns.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.2.1.3 Change in Movement Patterns, , <i>and same subheading for each subcomponent :</i> 5.2.2.3, 5.2.3.3, 5.2.4.3, 5.2.5.3, 5.2.6.3, 5.2.7.3	n/a
4.8.3	92	Potential Effects	This section will include an evaluation of whether contaminants of potential concern (COPCs) may be present at concentrations that could result in adverse effects or impacts on wildlife species/populations. To establish the latter, COPCs will be screened against applicable Wildlife, Livestock and Freshwater Aquatic Life Water Quality Guidelines (WQG) (e.g., BC Ministry of Environment and Climate Change Strategy [BC MOECCS], CCME, United States Environmental Protection Agency [US EPA]). If there are exceedances of the WQG based on this screening exercise, a wildlife health assessment will be conducted.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.2.1.2.1 Construction Phase	4.8-A Wildlife Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.4	92	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.3 Mitigation Measures	n/a
4.8.4	92	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Wildlife VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.3 Mitigation Measures	n/a
4.8.5	92	Residual Effects	Residual Effects	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
4.8.5	92-93	Mitigation Measures	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context, as described in section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.4 Residual Effects and Significance of Residual Effects 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
4.8.5	93	Mitigation Measures	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	5.4 Residual Effects and Significance of Residual Effects 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.6	93	Cumulative Effects	Cumulative Effects	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	6 Cumulative Effects Assessment (CEA)	n/a
4.8.6	93	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	n/a
4.8.6	93	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	6 Cumulative Effects Assessment (CEA)	n/a
4.8.6	93	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR. The caribou cumulative effects assessment boundary will be the largest of the RSAs, which is the 2019 BC Matrix habitat mapping boundary, plus the northeastern portions of the Wildlife RSA that lies just outside the Matrix boundary;	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.4.1 Spatial Boundaries Table 3.2 3: Spatial Boundary Definitions for the Wildlife Valued Component (VC) and Subcomponents 6.1 Potential Cumulative Effects; 6.3 Cumulative Effects Characterisation of Significances	n/a
4.8.6	93	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	6.2 Additional Mitigation Measures	n/a
4.8.6	93	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	6.3 Cumulative Effects Characterisation of Significances; 6.4 Summary of Potential Cumulative Effects	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
4.8.7	93	Follow-up Strategy	Follow-up Strategy	3	See below	See below	See below	n/a
4.8.7	93	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 3.9 Follow-up Strategy of this AIR.	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	8 Follow-up Strategy	n/a
				6	13.0 Management Plans	21 Wildlife Management Plan (WMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9	93	Avian Species Valued Component	Avian Species Valued Component		3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	n/a	n/a
4.9	93	Avian Species Valued Component	The landscape where the Project is located is primarily sub-boreal spruce forest that has experienced forest harvesting over the last 40 years, creating a mosaic of young to mature forest types. The mixed and coniferous forests provide nesting and foraging habitat for a range of migratory bird species and raptors typical for those forest types, as well as the cultivated land along the access road and Rail Loadout areas.		3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.2.1 Habitat Overview	4.9-A Avian Baseline Report
4.9	93	Avian Species Valued Component	This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for the Avian Species VC, potential Project-related effects, and analysis of potential residual effects. There will be cross references to other relevant VC assessment sections.		3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2 Rationale for Selection of the Avian Species Valued Component; 5.2 Potential Project-related Effects	n/a
4.9	93	Avian Species Valued Component	The Avian Species VC will include the following subcomponents and their associated indicators.		3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
4.9	94	Avian Species Valued Component	Subcomponent	Indicators	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
			Migratory Breeding Birds	Change in: Habitat, including direct and indirect disturbance (including sensory disturbance)					
			Listed Bird Species	Mortality					
			Raptors	Movement (qualitative analysis based on available information)					
4.9	94	Avian Species Valued Component	This VC assessment may support and be supported by the following VC assessments:		3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Aquatic Resources;		3	4.0 Environmental Effects Assessment	5 Aquatic Resources Valued Component	3.2.1 Valued Component	n/a
					3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Atmospheric Environment;		3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component	n/a
					3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9	94	Avian Species Valued Component	Fish and Fish Habitat;	3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Groundwater;	3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Heritage Resources;	4	4.0 Environmental Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Human Health;	4	8.0 Health Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Land and Resource Use;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Surface Water;	3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Terrain and Soils;	3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Vegetation;	3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9	94	Avian Species Valued Component	Wildlife; and	3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9	94	Avian Species Valued Component	Visual Resources.	4	6.0 Social Effects Assessment	2 Visual Resources Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
4.9.1	94	Context and Boundaries	Context and Boundaries	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.4 Assessment Boundaries	n/a
4.9.1	94	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable of the Avian Species VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Spatial assessment boundaries for the Avian Species Valued Component; Table 3.2 4: Spatial Boundary Definitions for the Avian Species Valued Component (VC)	n/a
4.9.1	94	Context and Boundaries	The proposed LSA and RSA for the Avian Species VC are described below and are illustrated in Figure 12 .	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Spatial assessment boundaries for the Avian Species Valued Component	n/a
4.9.1	94	Context and Boundaries	Avian Species LSA: designed to capture all potential direct and indirect effects resulting from all phases of the Project and is the same as the Wildlife LSA. It includes the Project Area with a minimum of a 5 km buffer.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.4.1 Spatial Boundaries	n/a
4.9.1	95	Context and Boundaries	Avian Species RSA: designed to capture the extent of indirect effects resulting from the Project, and home ranges of species that could overlap with the direct or indirect effects. The Avian Species RSA is the same as the Wildlife RSA.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.4.1 Spatial Boundaries	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9.1	95	Context and Boundaries	The Application will include analyses for all phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
4.9.1	96	Context and Boundaries	Figure 12 Avian Species Local and Regional Study Areas	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	Figure 3.2-1: Spatial assessment boundaries for the Avian Species Valued Component	n/a
4.9.2	97	Existing Conditions	Existing Conditions	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4. Existing Conditions	4.9-A Avian Baseline Report
4.9.2	97	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4. Existing Conditions	4.9-A Avian Baseline Report
4.9.2	97	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, list of the information provided in the baseline report, and field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Avian Species VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1 Background Information and Studies	4.9-A Avian Baseline Report
4.9.2	97	Existing Conditions	The following general approach is being taken to develop existing conditions for the Avian Species VC:	3	See below	See below	See below	See below
4.9.2	97	Existing Conditions	Desktop studies using publicly available information will be completed. Information sources may include but are not limited to available existing wildlife inventory and habitat use information for the Project study areas including occurrence, distribution and population status as well as travel corridors and potential breeding areas where available.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1 Background Information and Studies	4.9-A Avian Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9.2	97	Existing Conditions	Modelling of habitat suitability for focal species following provincial standards.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.2.1 Migratory Breeding Birds; 3.2.2.3 Raptors; 4.1.3 Baseline Studies; 4.2.2 Migratory Breeding Birds Subcomponent; 4.2.3 Listed Bird Species Subcomponent; 4.2.4 Raptors Subcomponent; 5.4.2 Migratory Breeding Birds Subcomponent; 5.4.4 Raptors Subcomponent	4.9-A Avian Baseline Report
4.9.2	97	Existing Conditions	Modelling of habitat suitability for migratory breeding birds using the habitat guild approach. Wetland, Open, and Forest guilds will be used. Summary of Project-related field studies including habitat assessment, species-specific and breeding bird surveys.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.2.1 Migratory Breeding Birds; 4.1.3 Baseline Studies; 4.2.2 Migratory Breeding Birds Subcomponent; 5.4.2 Migratory Breeding Birds Subcomponent	4.9-A Avian Baseline Report
4.9.2	97	Existing Conditions	Summary of element occurrence records from sources such as the BC Conservation Data Centre, the BC Breeding Bird Atlas, the BC Christmas Bird Count Database and eBird.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1.2 Scientific and Other Information	4.9-A Avian Baseline Report
4.9.2	97	Existing Conditions	TEK will be incorporated where relevant and available.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1.1 Traditional Knowledge	4.9-A Avian Baseline Report 7.1-B Cultural Use Study
4.9.2	97	Existing Conditions	The Application will identify applicable provincial and federal legislation, policies, BMPs and guidance documents related to Avian Species VC, including:	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2. Regulatory Context	n/a
4.9.2	97	Existing Conditions	<i>Forest and Range Practices Act</i> . SBC 2002. Chapter 69 (Prov BC 2002d);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.2 Provincial Legislation and Regulations	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9.2	97	Existing Conditions	<i>Species at Risk Act</i>. SC 2002 (GOC 2002);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.1 Federal Legislation and Regulations	n/a
4.9.2	97	Existing Conditions	<i>Migratory Birds Convention Act</i>. SC 1994. c. 22 (GOC 1994);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.1 Federal Legislation and Regulations	n/a
4.9.2	97	Existing Conditions	<i>Mines Act</i>. RSBC 1996. Chapter 293 (Prov BC 1996f);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.2 Provincial Legislation and Regulations	n/a
4.9.2	97	Existing Conditions	Health, Safety and Reclamation Code for Mines in British Columbia (Prov BC 2017);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.2 Provincial Legislation and Regulations	n/a
4.9.2	98	Existing Conditions	Bulkley Land and Resource Management Plan (Prov BC 1998);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.4 Land Use Plans	n/a
4.9.2	98	Existing Conditions	Any applicable Committee on the Status of Endangered Wildlife in Canada (COSEWIC) status reports or recovery plans;	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.1 Federal Legislation and Regulations	n/a
4.9.2	98	Existing Conditions	<i>Environmental Management Act</i>. SBC 2003. Chapter 53 (Prov BC 2003);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.2 Provincial Legislation and Regulations	n/a
4.9.2	98	Existing Conditions	<i>Water Sustainability Act</i>. SBC 2014. Chapter 15 (Prov BC 2014);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.2 Provincial Legislation and Regulations	n/a
4.9.2	98	Existing Conditions	<i>Wildlife Act</i>. RSBC 1996. Chapter 488 (Prov BC 1996j); and	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	2.2 Provincial Legislation and Regulations	n/a
4.9.2	98	Existing Conditions	Any TEK where relevant and available.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1.1 Traditional Knowledge	7.1-B Cultural Use Study
4.9.2	98	Existing Conditions	Existing Avian Species VC technical reports will be referenced in the Application, including:	3	See below	See below	See below	See below
4.9.2	98	Existing Conditions	Telkwa Project: Vegetation – Forestry – Wildlife. Stage II Report for Crows Nest Resources Ltd. (Taesco Consultants Ltd. 1984);	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1.3 Baseline Studies	n/a
4.9.2	98	Existing Conditions	Wildlife North of the Telkwa River: A Stage II Assessment for the Proposed Telkwa Project (Hatler 1990); and	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1.3 Baseline Studies	n/a
4.9.2	98	Existing Conditions	Wildlife Assessment. Telkwa Coal Project (Manalta Coal Ltd. 1997d).	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1.3 Baseline Studies	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9.2	98	Existing Conditions	The following Avian VC technical report will be provided as an appendix to the Application:	3	See below	See below	See below	See below
4.9.2	98	Existing Conditions	Avian Baseline Report.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	4.1.3 Baseline Studies	4.9-A Avian Baseline Report
4.9.3	98	Potential Effects	Potential Effects	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5. Assessment of Project-related Effects	n/a
4.9.3	98	Potential Effects	The Application will identify potential adverse effects to the Avian Species VC in a manner consistent with section 3.4 Potential Effects of this AIR.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5. Assessment of Project-related Effects	n/a
4.9.3	98	Potential Effects	The Application will describe the analysis, methodology and standards used to assess the potential effects on the Avian Species VC resulting from Project activities within each phase of the Project. Interactions between Project components and activities and the Avian Species VC will be summarized.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.1 Potential Project-related Interactions with the Avian Species Valued Component; 5.2 Potential Project-related Effects	n/a
4.9.3	98	Potential Effects	The following potential effects will be assessed:	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.2 Potential Project-related Effects	n/a
4.9.3	98	Potential Effects	Alteration and/or loss of habitat as a result of the Project Construction phase;	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.2 Potential Project-related Effects; 5.2.1 Alteration and/or Loss of Habitat	n/a
4.9.3	98	Potential Effects	Change in mortality as a result of Project Construction and Operation phases; and	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.2 Potential Project-related Effects; 5.2.2 Change in Mortality	n/a
4.9.3	98	Potential Effects	Change in movement patterns as a result of Project Construction and Operation phases.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.2 Potential Project-related Effects; 5.2.3 Change in Movement Patterns	n/a
4.9.3	98-99	Potential Effects	This section will include an evaluation of whether contaminants of potential concern (COPCs) may be present at concentrations that could result in adverse effects or impacts on avian species/populations. To establish the latter, COPCs will be screened against applicable Wildlife, Livestock and Freshwater Aquatic Life Water Quality Guidelines (WQG) (e.g., BCMOECES, CCME, US EPA). If there are exceedances of the WQG based on this screening exercise, a wildlife health assessment will be conducted.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.2.2.1 Construction Phase; 5.2.2.2 Operation Phase	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9.4	99	Mitigation Measures	Mitigation Measures	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.3 Mitigation Measures	n/a
4.9.4	99	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Avian VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.3.1 Project-specific Mitigation Measures; 5.3.2 Mitigation Measures; 5.3.3 Summary of Mitigation Measures	n/a
				7	13.0 Management Plans	21 Wildlife Management Plan (WMP)	n/a	n/a
4.9.5	99	Residual Effects	Residual Effects	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.4 Residual Effects and Significance of Residual Effects	n/a
4.9.5	99	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context, as described in section 3.6 Characterization of Residual Effects of this AIR.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.9.5	99	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
4.9.6	99	Cumulative Effects	Cumulative Effects	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
4.9.6	99	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	3	See below	See below	See below	n/a
4.9.6	99	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	6. Cumulative Effects Assessment (CEA)	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
4.9.6	99	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	6.3 Cumulative Effects Characterisation and Significance	n/a
4.9.6	99	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	6.2 Additional Mitigation Measures	n/a
4.9.6	99	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	6.3 Cumulative Effects Characterisation of Significance; 6.4 Summary of Cumulative Effects Assessment (CEA)	n/a
4.9.7	99	Follow-up Strategy	Follow-up Strategy	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	8. Follow-up Strategy	n/a
4.9.7	99	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 3.9 Follow-up Strategy of this AIR.	3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	21 Wildlife Management Plan (WMP)	n/a	n/a

Application Information Requirements (AIR)					Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5	100	ECONOMIC EFFECTS ASSESSMENT	ECONOMIC EFFECTS ASSESSMENT		4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	n/a	n/a
5	100	ECONOMIC EFFECTS ASSESSMENT	The Application will include an assessment of economic VCs identified in this 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 of this AIR.		4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	1. Introduction 2. Regulatory Context 3. Scope of the Assessment	n/a
5.1	100	Labour Market Valued Component	Labour Market Valued Component		4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	n/a	n/a
5.1	100	Labour Market Valued Component	Project employment, contracting, and procurement may influence the availability of workers within the local and regional labour market and/or the cost of labour. This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for the Labour Market VC, and pathways along which potential Project-related effects could occur, with cross references to other supporting VC assessment sections.		4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2 Rationale for Selection of Labour Market Valued Component (VC)	n/a
5.1	100	Labour Market Valued Component	The Labour Market VC will include the following indicators:		4	See below	See below	See below	n/a
5.1	100	Labour Market Valued Component	Subcomponent	Indicators	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
			n/a	Change in: - Number of workers by occupation, industry affiliation, and region of residence - Participation rate and unemployment rate - Difference between unemployment rate and natural rate of unemployment - Potential barriers to Indigenous participation in Project-related economic benefits - Income levels and labour income					

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.1	100	Labour Market Valued Component	This VC assessment may support and be supported by the following VC assessments:	4	See below	See below	See below	n/a
5.1	100	Labour Market Valued Component	Community Well-being;	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
5.1	100	Labour Market Valued Component	Demographics;	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.1 Valued Component (VC)	
				4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component (VC)	n/a
5.1	100	Labour Market Valued Component	Economic Development; and	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.1 Valued Component (VC)	n/a
				4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
5.1	100	Labour Market Valued Component	Infrastructure and Services.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component (VC)	n/a
5.1.1	100	Context and Boundaries	Context and Boundaries	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.4 Assessment Boundaries	n/a
5.1.1	100	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Labour Market VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Labour Market Local and Regional Study Areas	n/a
5.1.1	101	Context and Boundaries	The proposed LSA and RSA for the Labour Market VC are described below and are illustrated in Figure 13 :	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Labour Market Local and Regional Study Areas	n/a
5.1.1	101	Context and Boundaries	Socio-economic LSA: includes the communities of Telkwa, Smithers, Houston and Witset.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Labour Market Local and Regional Study Areas	-n/a
5.1.1	101	Context and Boundaries	Socio-economic RSA: includes the Regional District of Bulkley-Nechako and Witset.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Labour Market Local and Regional Study Areas	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.1.1	101	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Administrative Boundaries; Table 3.2-4 Technical Boundaries	n/a
5.1.1	102	Context and Boundaries	Figure 13 Socio-economic Local and Regional Study Areas	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	Figure 3.2-1: Labour Market Local and Regional Study Areas	n/a
5.1.2	103	Existing Conditions	Existing Conditions	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	4. Existing Conditions	5.1-A Socio-economic Baseline Report; 7.1-B - Cultural Use Study
5.1.2	103	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	4. Existing Conditions	n/a
5.1.2	103	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the Labour Market VC, including literature reviews and desktop studies and a list of the information provided in the baseline report, field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degrees of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Labour Market VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Labour Market VC:	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	4. Existing Conditions	5.1-A Socio-economic Baseline Report; 7.1-B Cultural Use Study

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.1.2	103	Existing Conditions	Interviews and community consultation conducted during baseline data collection;	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	4.1 Background Information and Studies	n/a
5.1.2	103	Existing Conditions	Collection and review of publicly available sources of information, such as but not limited to Statistics Canada and Province of BC (e.g., 2016 Canada Census Profile (Statistics Canada 2018b); 2011 National Household Survey (Statistics Canada 2018a); BC Labour Market Outlook 2018 Edition (Province of BC 2019b) and information from other relevant projects;	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	4.1 Background Information and Studies; 9. References	5.1-A Socio-economic Baseline Report
5.1.2	103	Existing Conditions	Review of available socio-economic information for the Project. The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Labour Market VC; and	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	2. Regulatory Context	5.1-A Socio-economic Baseline Report
5.1.2	103	Existing Conditions	<i>Local Government Act</i>, Chapter 1. 2015 (Prov BC 2015).	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	2. Regulatory Context	n/a
5.1.2	103	Existing Conditions	The following Labour Market VC technical reports will be provided with the Application:	4	See below	See below	See below	n/a
5.1.2	103	Existing Conditions	Socio-economic Baseline Report	n/a	5.0 Economic Effects Assessment	1 Labour Market Valued Component	n/a	5.1-A Socio-economic Baseline Report
5.1.3	103	Potential Effects	Potential Effects	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5. Assessment of Project-related Effects	n/a
5.1.3	103	Potential Effects	The Application will identify potential adverse effects to the Labour Market VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.2 Potential Project-related Effects	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.1.3	103	Potential Effects	The Application will describe the analysis, methodology, and standards used to determine the potential effects on the Labour Market VC resulting from Project activities within each phase of the Project. Interactions between Project components and activities and the Labour Market VC will be summarized.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.1 Potential Project-related Interactions with Labour Market Valued Component (VC); 5.2 Potential Project-related Effects	n/a
5.1.3	103	Potential Effects	The following potential effects will be assessed:	4	See below	See below	See below	n/a
5.1.3	103	Potential Effects	Change in competition for skilled local and regional workforce;	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.2.2 Increase in Competition for Skilled Local and Regional Workforce	n/a
5.1.3	104	Potential Effects	Change in labour costs; and	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.2.3 Increase in Labour Cost	n/a
5.1.3	104	Potential Effects	Barriers to Indigenous employment and participation in Project-related economic benefits.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.2.4 Barriers to Indigenous Employment and Participation in Project-related Economic Benefits	n/a
5.1.4	104	Mitigation Measures	Mitigation Measures	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.3 Mitigation Measures	n/a
5.1.4	104	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Labour Market VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	16 Socio-economic Management Plan (SEMP)	n/a	n/a
5.1.5	104	Residual Effects	Residual Effects	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
5.1.5	104	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context, as described in section 3.6 Characterization of Residual Effects of this AIR.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.1.5	104	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
5.1.6	104	Cumulative Effects	Cumulative Effects	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
5.1.6	104	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	4	See below	See below	See below	n/a
5.1.6	104	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the Project and the potential residual effects of other developments, based on the preliminary list of past, present and reasonably foreseeable developments provided in this AIR, are likely to occur, consistent with section 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	6. Cumulative Effects Assessment (CEA); Figure 6-1: Project and Activities Included in the Cumulative Effects Assessment for Labour Market; Table 6-1: Projects Included in the Assessment of Labour Market Valued Component (VC) Based on Spatial and Temporal Interaction	n/a
5.1.6	104	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	6.1 Cumulative Effects Assessment (CEA) - Labour Market Valued Component	n/a
5.1.6	104	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	6.1.2 Additional Mitigation Measures	n/a
5.1.6	104	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a
5.1.7	104	Follow-up Strategy	Follow-up Strategy	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	8. Follow-up Strategy	n/a
5.1.7	104	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 3.9 Follow-up Strategy of this AIR.	4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	16 Socio-economic Management Plan (SEMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.2	105	Economic Development Valued Component	Economic Development Valued Component		4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	n/a	n/a
5.2	105	Economic Development Valued Component	During the Construction and Operation phases, the Project may affect the number and diversity of retail and commercial businesses and industrial sectors represented in the local and regional economies. This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for the Economic Development VC, and pathways along which potential Project-related effects could occur, with cross references to other supporting VC assessment sections.		4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	1. Introduction; 	

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.2	105	Economic Development Valued Component	This VC assessment may support and be supported by the following VC assessments:	4	See below	See below	See below	n/a
5.2	105	Economic Development Valued Component	Community Well-being;	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
5.2	105	Economic Development Valued Component	Demographics;	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component (VC)	n/a
5.2	105	Economic Development Valued Component	Infrastructure and Services;	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component (VC)	n/a
5.2	105	Economic Development Valued Component	Labour Market;	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
				4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.1 Valued Component (VC)	n/a
5.2	105	Economic Development Valued Component	Land and Resource Use; and	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
5.2	105	Economic Development Valued Component	Visual Resources.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	2 Visual Resources Valued Component	3.2.1 Valued Component (VC)	n/a
5.2.1	105	Context and Boundaries	Context and Boundaries	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.4 Assessment Boundaries	n/a
5.2.1	105	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Economic Development VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Economic Development Local and Regional Study Areas	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.2.1	105	Context and Boundaries	The proposed LSA and RSA for the Economic Development VC are described below and are illustrated in Figure 13 :	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Economic Development Local and Regional Study Areas;	n/a
5.2.1	105	Context and Boundaries	Socio-economic LSA: includes the communities of Telkwa, Smithers, Houston and Witset.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Economic Development Local and Regional Study Areas	n/a
5.2.1	106	Context and Boundaries	Socio-economic RSA: includes the Regional District of Bulkley-Nechako and Witset.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Economic Development Local and Regional Study Areas	n/a
5.2.1	106	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
5.2.2	106	Existing Conditions	Existing Conditions	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	4. Existing Conditions	5.1-A Socio-economic Baseline Report; 6.4-A Land Use Baseline Report; 7.1-B Cultural Use Study
5.2.2	106	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	4. Existing Conditions	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.2.2	106	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the Economic Development VC, including literature reviews and desktop studies, a list of the information provided in the baseline report, and field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degrees of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Economic Development VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Economic Development VC:	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	4. Existing Conditions	5.1-A Socio-economic Baseline Report; 6.4-A Land Use Baseline Report; 7.1-B Cultural Use Study
5.2.2	106	Existing Conditions	Interviews and community consultation conducted during baseline data collection;	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	4.1 Background Information and Studies	n/a
5.2.2	106	Existing Conditions	Collection and review of Statistics Canada and BC Stats data (e.g., 2016 Canada Census Profile (Statistics Canada 2018b); 2011 National Household Survey (Statistics Canada 2018a); BC Labour Market Outlook 2018 Edition (Prov BC 2019b) and information from other relevant projects; and	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	4.1 Background Information and Studies; 9 References	5.1-A Socio-economic Baseline Report; 6.4-A Land Use Baseline Report; 7.1-B Cultural Use Study
5.2.2	106	Existing Conditions	Review of available socio-economic information for the Project.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions	5.1-A Socio-economic Baseline Report; 6.4-A Land Use Baseline Report; 7.1-B Cultural Use Study
5.2.2	106	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Economic Development VC, including:	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	2. Regulatory Context	n/a
5.2.2	106	Existing Conditions	<i>Local Government Act</i>. RSBC 2015. Chapter 1 (Prov BC 2015).	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	2. Regulatory Context	n/a
5.2.2	106	Existing Conditions	The following Economic Development VC technical reports will be provided with the Application:	4	See below	See below	See below	See below

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.2.2	107	Existing Conditions	Socio-economic Baseline Report	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	n/a	5.1-A Socio-economic Baseline Report
5.2.3	107	Potential Effects	Potential Effects	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5. Assessment of Project-related Effects	n/a
5.2.3	107	Potential Effects	The Application will identify potential adverse effects to the Economic Development VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.2 Potential Project-related Effects	n/a
5.2.3	107	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Economic Development VC resulting from project activities within each phase of the Project. Interactions between Project components and activities and the Economic Development VC will be summarized.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.1 Potential Project-related Interactions with Economic Development; 5.2 Potential Project-related Effects	n/a
5.2.3	107	Potential Effects	The following potential effects will be assessed:	4	See below	See below	See below	n/a
5.2.3	107	Potential Effects	Change in economic diversity (Construction and Operation phases);	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.2.2.1 Decrease in Economic Diversity	n/a
5.2.3	107	Potential Effects	Change in the capacity of local or regional businesses to supply goods or services (Construction and Operation phases);	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.2.2.2 Change in the Capacity of Local or Regional Businesses to Supply Goods and Services	n/a
5.2.3	107	Potential Effects	Change that impacts development plans or strategies of local and regional government (Construction and Operation phases);	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.2.2.3 Change that Affects Development Plans or Strategies of Government	n/a
5.2.3	107	Potential Effects	Change in local and regional marketable timber (Construction and Operation phases);	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.2.2.4 Decrease in Local and Regional Marketable Timber	n/a
5.2.3	107	Potential Effects	Change in local or regional tourism (Construction, Operation, Decommissioning and Reclamation and Closure phases); and	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.2.2.5 Decrease in Local or Regional Tourism	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.2.3	107	Potential Effects	Change in economic contribution (Decommissioning and Reclamation and Post-closure phases).	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.2.2.6 Decrease in Economic Activity	n/a
5.2.4	107	Mitigation Measures	Mitigation Measures	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.3 Mitigation Measures	n/a
5.2.4	107	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Economic Development VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	16 Socio-economic Management Plan (SEMP)	n/a	n/a
5.2.5	107	Residual Effects	Residual Effects	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
5.2.5	107	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
5.2.5	107	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.2.6	108	Cumulative Effects	Cumulative Effects	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
5.2.6	108	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	4	See below	See below	See below	n/a
5.2.6	108	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	6. Cumulative Effects Assessment (CEA); Figure 6 1: Projects and Activities Included in the Cumulative Effects Assessment for Economic Development; Table 6-1: Projects Included in the Assessment of Economic Development Valued Component (VC) Based on Spatial and Temporal Interaction	n/a
5.2.6	108	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	6.1 Cumulative Effects Assessment (CEA) - Local Business and Industry Subcomponent	n/a
5.2.6	108	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	6.1.2 Additional Mitigation Measures	n/a
5.2.6	108	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
5.2.7	108	Follow-up Strategy	Follow-up Strategy	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	8. Follow-up Strategy	n/a
5.2.7	108	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 3.9 Follow-up Strategy of this AIR.	4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Environmental Management Plans	16 Socio-economic Management Plan (SEMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix Title
6.1	109	Demographics Valued Component	Demographics Valued Component		4	6.0 Social Effects Assessment	1 Demographics Valued Component	n/a	n/a
6.1	109	Demographics Valued Component	Project employment, contracting and procurement, and other induced local and regional economic effects may contribute to change in local and regional demographics. This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for the Demographics VC, and pathways along which potential Project-related effects could occur, with cross references to other supporting VC assessment sections.		4	6.0 Social Effects Assessment	1 Demographics Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
6.1	109	Demographics Valued Component	Project-related effects on this VC may have linkages to the following VC assessments:		4	See below	See below	See below	n/a
6.1	109	Demographics Valued Component	Community Well-being;		4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component	n/a
					4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component	n/a
6.1	109	Demographics Valued Component	Economic Development;		4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component	n/a
					4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component	n/a
6.1	109	Demographics Valued Component	Infrastructure and Services;		4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component	n/a
					4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component	n/a
6.1	109	Demographics Valued Component	Labour Market; and		4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component	n/a
					4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.1 Valued Component	n/a
6.1	109	Demographics Valued Component	Land and Resource Use.		4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component	n/a
					4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component	n/a
6.1	109	Demographics Valued Component	The Demographics VC will include the following indicators:		4	See below	See below	See below	n/a
6.1	109	Demographics Valued Component	Subcomponent	Indicators	4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.2 Subcomponents;	n/a
			NA	Change in: - Population - Demographic factors				3.2.3 Indicators	

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix
6.1.1	109	Context and Boundaries	Context and Boundaries	4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.4 Assessment Boundaries	n/a
6.1.1	109	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable to the Demographics VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Demographics Local and Regional Study Areas	n/a
6.1.1	109	Context and Boundaries	The proposed LSA and RSA for the Demographics VC are described below and are illustrated in Figure 13 :	4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1 Demographics Local and Regional Study Areas	n/a
6.1.1	109	Context and Boundaries	Socio-economic LSA: includes the communities of Telkwa, Smithers, Houston and Witset.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.4.1 Spatial Boundaries	n/a
6.1.1	109	Context and Boundaries	Socio-economic RSA: includes the Regional District of Bulkley-Nechako and Witset.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.4.1 Spatial Boundaries	n/a
6.1.1	110	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
6.1.2	110	Existing Conditions	Existing Conditions	4	6.0 Social Effects Assessment	1 Demographics Valued Component	4. Existing Conditions	5.1-A Socio-economic Baseline Report; 7.1-B Cultural Use Study
6.1.2	110	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	4. Existing Conditions	5.1-A Socio-economic Baseline Report; 7.1-B Cultural Use Study

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix Title
6.1.2	110	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, a list of the information provided in the baseline report, and field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degrees of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Demographics VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Demographics VC:	4	6.0 Social Effects Assessment	1 Demographics Valued Component	4.1 Background Information and Studies	5.1-A Socio-economic Baseline Report; 7.1-B Cultural Use Study
6.1.2	110	Existing Conditions	Interviews and community consultation conducted during baseline data collection;	4	6.0 Social Effects Assessment	1 Demographics Valued Component	4.1.3 Baseline Studies	n/a
6.1.2	110	Existing Conditions	Collection and review of Statistics Canada and BC Stats data (2016 Canada Census Profile (Statistics Canada 2018a); 2011 National Household Survey (Statistics Canada 2018a); BC Labour Market Outlook 2018 Edition (Prov BC 2019) and information from other relevant projects;	4	6.0 Social Effects Assessment	1 Demographics Valued Component	4.1 Background Information and Studies; 9 References	5.1-A Socio-economic Baseline Report; 7.1-B Cultural Use Study
6.1.2	110	Existing Conditions	Review of available socio-economic information for the Project; and	4	6.0 Social Effects Assessment	1 Demographics Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions	5.1-A Socio-economic Baseline Report; 7.1-B Cultural Use Study
6.1.2	110	Existing Conditions	Review and integration of any relevant demographics data on affected Indigenous communities within the LSA.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	4.1.1 Traditional Knowledge, 4.2.3 Indigenous Community Demographics	5.1-A Socio-economic Baseline Report; 7.1-B Cultural Use Study
6.1.2	110	Existing Conditions	The following Demographics VC technical report will be provided with the Application:	4	See below	See below	See below	n/a
6.1.2	110	Existing Conditions	Socio-economic Baseline Report.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	4.1.3 Baseline Studies	5.1-A Socio-economic Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix
6.1.3	110	Potential Effects	Potential Effects	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5. Assessment of Project-related Effects	n/a
6.1.3	110	Potential Effects	The Application will identify potential adverse effects to the Demographics VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5. Assessment of Project-related Effects	n/a
6.1.3	110	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Demographics VC resulting from project activities within each phase of the Project. Interactions between Project components and activities and the Demographics VC will be summarized.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.1 Potential Project-related Interactions with the Demographics Valued Component (VC) 5.2 Potential Project-related Effects	n/a
6.1.3	111	Potential Effects	The following potential effects will be assessed:	4	See below	See below	See below	n/a
6.1.3	111	Potential Effects	Change in populations in LSA and RSA communities, including:	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.2.2 Change in Population and Related Demographics Factors	n/a
6.1.3	111	Potential Effects	change in population size; and	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.2.2 Change in Population and Related Demographics Factors	n/a
6.1.3	111	Potential Effects	change in demographic composition.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.2.2 Change in Population and Related Demographics Factors	n/a
6.1.4	111	Mitigation Measures	Mitigation Measures	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.3 Mitigation Measures	n/a
6.1.4	111	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Demographics VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	16 Socio-economic Management Plan (SEMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix Title
6.1.5	111	Residual Effects	Residual Effects	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
6.1.5	111	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
6.1.5	111	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
6.1.6	111	Cumulative Effects	Cumulative Effects	4	6.0 Social Effects Assessment	1 Demographics Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
6.1.6	111	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	4	See below	See below	See below	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix
6.1.6	111	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	6.0 Social Effects Assessment	1 Demographics Valued Component	6. Cumulative Effects Assessment (CEA); Table 6.1-1: Projects Included in the Cumulative Assessment of the Demographics Valued Component (VC) Based on Spatial and Temporal Interaction; Figure 6.1-1: Projects and Activities Included in the Cumulative Effects Assessment for Demographics	n/a
6.1.6	111	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR; and	4	6.0 Social Effects Assessment	1 Demographics Valued Component	6.1 Cumulative Effects Assessment (CEA) for the Demographics Valued Component (VC)	n/a
6.1.6	111	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	6.1.2 Additional Mitigation Measures	n/a
6.1.6	111	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix
6.1.7	112	Follow-up Strategy	Follow-up Strategy	4	6.0 Social Effects Assessment	1 Demographics Valued Component	8. Follow-up Strategy	n/a
6.1.7	112	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 3.9 Follow-up Strategy of this AIR.	4	6.0 Social Effects Assessment	1 Demographics Valued Component	8. Follow-up Strategy	n/a
				6	13.0 Management Plans and Management Strategies	16 Socio-economic Management Plan (SEMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.2	113	Visual Resources Valued Component	Visual Resources Valued Component	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	n/a	n/a
6.2	113	Visual Resources Valued Component	The aesthetic value of a landscape is largely determined by the character of the natural landforms and the proximity to and number of viewers of that landscape. The Project's proximity to the Village of Telkwa and Town of Smithers, along with the recreation and tourism opportunities in the surrounding area, suggests that the Project has the potential to adversely affect the visual resources of the landscape. This section of the Application will present the indicators and boundaries of the assessment for the Visual Resources VC, and pathways along which potential Project-related effects could occur, with cross references to other supporting VC assessment sections.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
6.2	113	Visual Resources Valued Component	Project-related effects on this VC may have linkages with the following VC assessments:	4	See below	See below	See below	n/a
6.2	113	Visual Resources Valued Component	Avian Species;	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component (VC)	n/a
6.2	113	Visual Resources Valued Component	Community Well-being;	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
6.2	113	Visual Resources Valued Component	Economic Development;	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.1 Valued Component (VC)	n/a
				4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
6.2	113	Visual Resources Valued Component	Land and Resource Use; and	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.1 Valued Component (VC)	n/a
				3	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
6.2	113	Visual Resources Valued Component	Wildlife.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component (VC)	n/a
6.2	113	Visual Resources Valued Component	The Visual Resources VC will include the following subcomponents and their associated indicators:	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.2	113	Visual Resources Valued Component	Subcomponent	Indicators	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
			Visual Quality	Change in: Visual disturbance from selected receptor sites					
6.2	113	Visual Resources Valued Component	Although ambient light has been screened out as a subcomponent, a qualitative discussion will be included in the Application.		4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4.2.5 Ambient Light	n/a
6.2.1	113	Context and Boundaries	Context and Boundaries		4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.4 Assessment Boundaries	n/a
6.2.1	113	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Visual Resources VC, including maps with relevant layers (e.g., recreation mapping layers), in a manner consistent with section 3.2 Assessment Boundaries of the AIR.		4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Visual Resources Local and Regional Study Areas	n/a
6.2.1	113	Context and Boundaries	The proposed LSA and RSA for the Visual Resources VC are described below and are illustrated in Figure 14 Both study areas are based on the locations where the Project is expected to be visible from and the Bulkley Land and Resource Management Plan (LRMP) Landscape Unit plan boundaries. The LRMP delegates specific guidance regarding visual quality to the individual Landscape Unit Plans (LUPs), which typically focus on the management of landscapes that can be seen from within the Unit, including the identification of specific viewpoints that are considered particularly important. The study areas are determined as follows:		4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Visual Resources Local and Regional Study Areas	n/a
6.2.1	113	Context and Boundaries	Visual Resources LSA: any location within the limit of visibility from the Minesite (35 km per BC MFLNRO [2016b]), within the Bulkley LRMP.		4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.4.1 Spatial Boundaries	n/a
6.2.1	114	Context and Boundaries	Visual Resources RSA: the amalgamation of all Bulkley LRMP LUPs that have any portion of the plan area fall within the LSA.		4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.4.1 Spatial Boundaries	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.2.1	114	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.2.4.1 Spatial Boundaries; 3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
6.2.1	115	Context and Boundaries	Figure 14 Visual Resources Local and Regional Study Areas	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	Figure 3.2 1: Visual Resources Local and Regional Study Areas	n/a
6.2.2	116	Existing Conditions	Existing Conditions	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4. Existing Conditions	6.2-A Visual Quality Baseline Study
6.2.2	116	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4. Existing Conditions	6.2-A Visual Quality Baseline Study
6.2.2	116	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the Visual Resources VC, including literature reviews and desktop studies, a list of the information provided in the baseline report, and field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degrees of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Visual Resources VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Visual Resources VC:	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4. Existing Conditions	6.2-A Visual Quality Baseline Study
6.2.2	116	Existing Conditions	Review provincially established field methodologies for assessing visual quality as per the Visual Impact Assessment Guidebook (BC Ministry of Forests 2001).	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4.2.4 Field Visits and Existing Conditions	n/a
6.2.2	116	Existing Conditions	Review the Bulkley Land and Resource Management Plan (Prov BC 1998a) and the Bulkley Valley Sustainable Resource Management Plan (Prov BC 2005) to determine what areas are considered important for visual resources. This includes all LUPs contained within the Bulkley Valley LRMP.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	2. Regulatory Context	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.2.2	116	Existing Conditions	Pre-field preparation:	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4.1 Background Information and Studies	n/a
6.2.2	116	Existing Conditions	Line-of-sight modelling to determine the viewshed of the Project (i.e., total of areas that have a view of the Project);	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4.2.2 Viewshed Analysis	n/a
6.2.2	116	Existing Conditions	Consultation with local stakeholders around areas of potential concern for adverse effects on visual quality, including the incorporation of TEK; and	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3.1 Issues Scoping; 3.2.1 Valued Component (VC); 4.2.3 Selection of Viewpoints	n/a
6.2.2	116	Existing Conditions	Selection of viewpoints reflecting the distribution of different viewing angles, land uses, and stakeholder concerns within the viewshed.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4.2.3 Selection of Viewpoints	n/a
6.2.2	116	Existing Conditions	Reconnaissance visits to each selected viewpoint to document current visual quality conditions by taking photographs in the direction of the Project.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4.2.4 Field Visits and Existing Conditions	n/a
6.2.2	116	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Visual Resources VC, including:	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	2. Regulatory Context	n/a
6.2.2	116	Existing Conditions	Forest and Range Practices Act. SBC 2002. Chapter 69. (Prov BC 2002d);	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	2. Regulatory Context	n/a
6.2.2	116	Existing Conditions	Visual Impact Assessment Guidebook, Second Edition (BC Ministry of Forests 2001) for guidance on measuring visual disturbance; and	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4.2.4 Field Visits and Existing Conditions	n/a
6.2.2	117	Existing Conditions	Bulkley Land and Resource Management Plan (Prov BC 1998a) and the Bulkley Valley Sustainable Resource Management Plan (Prov BC 2005) for guidance on visual quality targets or objectives.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	2. Regulatory Context	n/a
6.2.2	117	Existing Conditions	The following Visual Resources VC technical reports will be provided with the Application:	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	4.1.3 Baseline Studies	n/a
6.2.2	117	Existing Conditions	Tenas Project: 2017 to 2019 Baseline Report (ERM 2020).	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	3. Scope of the Assessment; 4. Existing Conditions	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.2.3	117	Potential Effects	Potential Effects	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5. Assessment of Project-related Effects	n/a
6.2.3	117	Potential Effects	The Application will identify potential adverse effects to the Visual Resources VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5. Assessment of Project-related Effects	n/a
6.2.3	117	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Visual Resources VC resulting from project activities within each phase of the Project. Interactions between Project components and activities and the Visual Resources VC will be summarized.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5.1 Potential Project-related Interactions with Visual Resources (VC); 5.2 Potential Project-related Effects (VC)	n/a
6.2.3	117	Potential Effects	The following potential effects will be assessed:	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5.2 Potential Project-related Effects	n/a
6.2.3	117	Potential Effects	Change in visual quality in the Construction, Operation, Decommissioning and Reclamation and Post-closure phases; and	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5.2 Potential Project-related Effects	n/a
6.2.4	117	Mitigation Measures	Mitigation Measures	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5.3 Mitigation Measures	n/a
6.2.4	117	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Visual Resources VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	19 Visual Resources Management Plan (S13-C19) (VRMP).	n/a	n/a
6.2.5	117	Residual Effects	Residual Effects	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
6.2.5	117	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.2.5	117	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
6.2.6	117	Cumulative Effects	Cumulative Effects	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
6.2.6	117	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	4	See below	See below	See below	n/a
6.2.6	117	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	6. Cumulative Effects Assessment (CEA); Table 6.1-1: Projects Included in the Analysis of Visual Quality Based on Spatial and Temporal Interaction; Figure 6.6-1: Projects and Activities Included in the Cumulative Effects Assessment for the Visual Quality Subcomponent	n/a
6.2.6	118	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	6.1.1 Potential Cumulative Effects - Active Phases Including Rail Infrastructure; 6.1.2 Potential Cumulative Effects - Post-closure Phase	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.2.6	118	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	6.1.2 Additional Mitigation Measures	n/a
6.2.6	118	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	6.1.4 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment	n/a
6.2.7	118	Follow-up Strategy	Follow-up Strategy	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	8. Follow-up Strategy	n/a
6.2.7	118	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 3.9 Follow-up Strategy of this AIR.	4	6.0 Social Effects Assessment	6.2 Visual Quality Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	19 Visual Resources Management Plan (VRMP).	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix	
6.3	118	Infrastructure and Services Valued Component	Infrastructure and Services Valued Component		4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	n/a	n/a	
6.3	118	Infrastructure and Services Valued Component	This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for the Infrastructure and Services VC, and pathways along which potential Project related effects could occur, with cross references to other supporting VC assessment sections.		4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	1. Introduction	n/a	
6.3	119	Infrastructure and Services Valued Component	The Infrastructure and Services VC will include the following subcomponents and their associated indicators.		4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a	
6.3	119	Infrastructure and Services Valued Component	Subcomponent	Indicators	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a	
			Housing and Accommodation	Change in: - Demand for housing and accommodation - Active residential listings - Housing costs - Property taxes - Vacancy rates						
				Community Infrastructure and Services						Change in: Supply and demand for all community services (education, childcare, health care, and recreation) and community infrastructure Supply and demand for emergency services (policing, fire, and search and rescue)
										Transportation

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3	119	Infrastructure and Services Valued Component	This VC assessment may support and be supported by the following VC assessments:	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component (VC); 3.2.2 Subcomponents	n/a
6.3	119	Infrastructure and Services Valued Component	Community Well-being;	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component (VC); 3.2.2 Subcomponents	n/a
				4	6.0 Social Effects Assessment	5 Community Well-Being being Valued Component	3.2.1 Valued Component (VC)	n/a
6.3	119	Infrastructure and Services Valued Component	Demographics;	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component (VC); 3.2.2 Subcomponents	n/a
				4	6.0 Social Effects Assessment	1 Demographics Intermediate Valued Component	3.2.1 Valued Component (VC)	n/a
6.3	119	Infrastructure and Services Valued Component	Economic Development; and	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component (VC); 3.2.2 Subcomponents	n/a
				4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
6.3	119	Infrastructure and Services Valued Component	Labour Market.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component (VC); 3.2.2 Subcomponents	n/a
				4	5.0 Economic Effects Assessment	1 Labour Market Valued Component	3.2.1 Valued Component (VC)	n/a
6.3.1	119	Context and Boundaries	Context and Boundaries	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.4 Assessment Boundaries	n/a
6.3.1	119	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Infrastructure and Services VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.4 Assessment Boundaries Figure 3.2-1: Infrastructure and Services Local and Regional Study Areas	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.1	119	Context and Boundaries	The LSA and RSA have been selected to include communities potentially directly and indirectly affected within the Project area (Figure 13):	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Infrastructure and Services Local and Regional Study Areas	n/a
6.3.1	119	Context and Boundaries	Socio-economic LSA: includes the communities of Telkwa, Smithers, Houston and Witset.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2-3: Spatial Boundary Definitions for Infrastructure and Services Valued Component (VC) Figure 3.2-1 Demographics Local and Regional Study Areas	n/a
6.3.1	119	Context and Boundaries	Socio-economic RSA: includes the Regional District of Bulkley-Nechako and Witset.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2-3: Spatial Boundary Definitions for Infrastructure and Services Valued Component (VC) Figure 3.2-1 Demographics Local and Regional Study Areas	n/a
6.3.1	119	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.2	120	Existing Conditions	Existing Conditions	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4. Existing Conditions	5.1-A Socio-economic Baseline Report
6.3.2	120	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4. Existing Conditions	n/a
6.3.2	120	Existing Conditions	This section of the Application will describe the approach taken to characterizing the existing conditions of the VC, including literature reviews and desktop studies, a list of the information provided in the baseline report, and field programs or modelling undertaken with reference to any applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented, and margins of error or degrees of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Infrastructure and Services VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Infrastructure and Services VC:	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions	5.1-A Socio-economic Baseline Report
6.3.2	120	Existing Conditions	Interviews and community consultation conducted during baseline data collection;	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4.1.3 Baseline Studies	5.1-A Socio-economic Baseline Report; 7.1-B Tenas Project Cultural Use Study
6.3.2	120	Existing Conditions	Collection and review of publicly available sources of information, including information from other relevant projects; and	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4.1.2 Scientific and Other Information	6.3-A Traffic Study
6.3.2	120	Existing Conditions	Review of available socio-economic information for the Project.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions	5.1-A Socio-economic Baseline Study; 7.1-B Tenas Project Cultural Use Study
6.3.2	120	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Infrastructure and Services VC, including:	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2. Regulatory Context	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.2	120	Existing Conditions	<i>Water Sustainability Act</i> . SBC 2014. Chapter 15 (Prov BC 2014);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.1 Provincial Legislation Regarding Infrastructure and Services; Table 2.1-1 Provincial Legislation Applicable to the Infrastructure and Services Valued Component (VC)	n/a
6.3.2	120	Existing Conditions	<i>Agricultural Land Commission Act</i>. SBC 2002. Chapter 36 (Prov BC 2002);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.1 Provincial Legislation Regarding Infrastructure and Services; Table 2.1-1: Provincial Legislation Applicable to the Infrastructure and Services Valued Component (VC)	n/a
6.3.2	120	Existing Conditions	Regional District of Bulkley-Nechako Floodplain Management By-law No. 1300 (Regional District of Bulkley-Nechako 2016);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.2.1 Provincial and Regional Plans and Guidance; Table 2.2 1: Management Plans and Guidance Documents Applicable to the Infrastructure and Services Valued Component (VC)	n/a
6.3.2	120	Existing Conditions	Village of Telkwa bylaws (Village of Telkwa 2015);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.2.2 Local and Regional Regulations	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.2	120	Existing Conditions	Bulkley Land and Resource Management Plan (Prov BC 1998);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.2.1 Provincial and Regional Plans and Guidance; Table 2.2 1: Management Plans and Guidance Documents Applicable to the Infrastructure and Services Valued Component (VC)	n/a
6.3.2	120	Existing Conditions	Bulkley Valley Sustainable Resource Management Plan (Prov BC 2005);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.2.1 Provincial and Regional Plans and Guidance; Table 2.2 1: Management Plans and Guidance Documents Applicable to the Infrastructure and Services Valued Component (VC)	n/a
6.3.2	120	Existing Conditions	Standard Working Group Comments and Recommendations for Provincial Environmental Assessments in Northern British Columbia (Northern Health 2015b);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.2.1 Provincial and Regional Plans and Guidance; Table 2.2 1: Management Plans and Guidance Documents Applicable to the Infrastructure and Services Valued Component (VC)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.2	121	Existing Conditions	The Social Determinants of Health Impacts of Resource Extraction and Development in Rural and Northern Communities (Northern Health and Provincial Health Services Authority 2018); and	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.2.1 Provincial and Regional Plans and Guidance; Table 2.2 1: Management Plans and Guidance Documents Applicable to the Infrastructure and Services Valued Component (VC)	n/a
6.3.2	121	Existing Conditions	Social Determinants of Health Discussion Guide (First Nations Health Council 2017).	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	2.2.1 Provincial and Regional Plans and Guidance; Table 2.2 1: Management Plans and Guidance Documents Applicable to the Infrastructure and Services Valued Component (VC)	n/a
6.3.2	121	Existing Conditions	The following Infrastructure and Services VC technical reports will be provided with the Application:	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4.1.3 Baseline Studies; Table 4.1-1: Summary of Desktop and Field Studies Related to Infrastructure and Services Valued Component (VC) and Subcomponents	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.2	121	Existing Conditions	Traffic Count; and	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4.1.3 Baseline Studies; Table 4.1-1: Summary of Desktop and Field Studies Related to Infrastructure and Services Valued Component (VC) and Subcomponents	Appendix 6.3-A Traffic Study
6.3.2	121	Existing Conditions	Socio-economic Baseline Report	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	4.1.3 Baseline Studies; Table 4.1-1: Summary of Desktop and Field Studies Related to Infrastructure and Services Valued Component (VC) and Subcomponents	5.1-A -Socio-economic Baseline Report
6.3.3	121	Potential Effects	Potential Effects	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5. Assessment of Project-related Effects	n/a
6.3.3	121	Potential Effects	The Application will identify potential adverse effects to the Infrastructure and Services VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5. Assessment of Project-related Effects	n/a
6.3.3	121	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Infrastructure and Services VC resulting from Project activities within each phase of the Project. Interactions between Project components and activities and the Infrastructure and Services VC will be summarized.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.1 Potential Project-related Interactions with Infrastructure and Services Valued Component (VC); 5.2 Potential Project-related Effects;	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.3	121	Potential Effects	The following potential effects will be assessed:	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.2 Potential Project-related Effects	n/a
6.3.3	121	Potential Effects	Change in cost or availability of housing and accommodations (Construction and Operation phases);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.2 Potential Project-related Effects; 5.2.1 Housing and Accommodation Subcomponent	6.3-B Telkwa Housing Needs Report
6.3.3	121	Potential Effects	Change in use of community services, including education, childcare, healthcare and recreation (Construction and Operation phases);	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.2 Potential Project-related Effects; 5.2.2 Community Infrastructure and Services Subcomponent	n/a
6.3.3	121	Potential Effects	Change in use of emergency services including policing, fire and search and rescue (Construction and Operation phases); and	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.2 Potential Project-related Effects; 5.2.2 Community Infrastructure and Services Subcomponent	n/a
6.3.3	121	Potential Effects	Change in use of roads and related increases in traffic (Construction and Operation phases).	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.2 Potential Project-related Effects; 5.2.3 Transportation and Traffic	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.4	121	Mitigation Measures	Mitigation Measures	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.3 Mitigation Measures	n/a
6.3.4	121	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Infrastructure and Services VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Environmental Management Plans	10 Mine Emergency Response Plan (MERP); 12 Minesite Traffic Control Plan (MTCP); 16 Socio-economic Management Plan (SEMP).	n/a	n/a
6.3.5	121	Residual Effects	Residual Effects	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
6.3.5	121	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.5	121	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
6.3.6	122	Cumulative Effects	Cumulative Effects	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
6.3.6	122	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
6.3.6	122	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	6. Cumulative Effects Assessment (CEA); Table 6.1 1: Projects Included in the Cumulative Assessment of Infrastructure and Services Valued Component (VC) Based on Spatial and Temporal Interaction; Figure 6.1-1: Projects and Activities Included in the Cumulative Effects Assessment for Infrastructure and Services Local and Regional Study Areas	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Numbers & Title	Relevant Appendix
6.3.6	122	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	6.1 Cumulative Effects Assessment (CEA) for the Infrastructure and Services Valued Component (VC); 6.1.3 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a
6.3.6	122	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	6.1.2 Additional Mitigation Measures	n/a
6.3.6	122	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a
6.3.7	122	Follow-up Strategy	Follow-up Strategy	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	8. Follow-up Strategy	n/a
6.3.7	122	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 3.9 Follow-up Strategy of this AIR.	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Environmental Management Plans	16 Socio-economic Management Plan (SEMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.4	122	Land and Resource Use Valued Component	Land and Resource Use Valued Component		4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	n/a	n/a
6.4	122	Land and Resource Use Valued Component	The Project includes construction undertakings and operation that may result in local adverse effects to land and resource use. Potential pathways for adverse effects include either reduced access to or reduced availability of land and resources used for residential, recreational or commercial purposes. In addition to the Project Area, potential factors within the surrounding area include noise, dust levels and/or diminished visual quality or sense of place. This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for the Land and Resource Use VC, and pathways along which potential Project related effects could occur, with cross references to other supporting VC assessment sections. See Part C, Wet'suwet'en Title, Rights and Interests in the Application, for identification and assessment of potential Project effects to current use of land and resources for traditional purposes.		4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	1 Introduction; 3 Scope of the Assessment	n/a
6.4	122	Land and Resource Use Valued Component	The Land and Resource Use VC will include the following subcomponents and their associated indicators:		4	See below	See below	See below	See below
6.4	123	Land and Resource Use Valued Component	Subcomponent	Indicators	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3. Scope of the Assessment;	n/a
			Commercial Land Use	Compatibility with existing land use plans Change in: - Access to land use areas - Sensory disturbance to existing land and resource uses - Quantity and quality of resources supporting existing land and resource uses				3.2.3 Indicators; Table 3.2-2 Indicators for Land and Resource Use Valued Component (VC) Subcomponents	

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6.4	123	Land and Resource Use Valued Component	Public Recreation Use	Change in: • Access to land use areas • Sensory disturbance • Quantity and quality of resources supporting recreational activities • Interference with recreational infrastructure	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.3 Indicators; Table 3.2-2 Indicators for Land and Resource Use Valued Component (VC) Subcomponents	n/a
6.4	123	Land and Resource Use Valued Component	This VC assessment may support and be supported by the following VC assessments:		4	See below	See below	See below	See below
6.4	123	Land and Resource Use Valued Component	• Atmospheric Environment;		4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
					3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	• Avian Species;		4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
					3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	• Community Well-being;		4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
					4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	• Demographics;		4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
					4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	• Economic Development;		4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
					4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	• Fish and Fish Habitat;		4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
					3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	• Heritage Resources;		4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
					4	4.0 Environmental Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component (VC)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.4	123	Land and Resource Use Valued Component	Human Health;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
				4	8.0 Health Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	Surface Water;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	Terrain and Soils;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	Vegetation;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	7 Vegetation Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	Visual Resources; and	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	2 Visual Resources Valued Component	3.2.1 Valued Component (VC)	n/a
6.4	123	Land and Resource Use Valued Component	Wildlife.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
				3	4.0 Environmental Effects Assessment	8 Wildlife Valued Component	3.2.1 Valued Component (VC)	n/a
6.4.1	124	Context and Boundaries	Context and Boundaries	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.4 Assessment Boundaries	n/a
6.4.1	124	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Land and Resource Use VC, including maps with relevant layers (e.g., recreation mapping layers), in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.4 Assessment Boundaries	n/a
6.4.1	124	Context and Boundaries	The proposed LSA and RSA for the Land and Resource Use VC are described below and are illustrated in Figure 15 :	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Land and Resource Use Local and Regional Study Areas	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.4.1	124	Context and Boundaries	Land and Resource Use LSA: same as the Vegetation LSA.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2-3: Spatial Boundary Definitions for Land and Resource Use Valued Component and Subcomponents; Figure 3.2-1: Land and Resource Use Local and Regional Study Areas	n/a
6.4.1	124	Context and Boundaries	Land and Resource Use RSA: same as the Wildlife RSA or, in the case of Guide Outfitters, the Wide-ranging Wildlife RSA.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2-3: Spatial Boundary Definitions for Land and Resource Use Valued Component and Subcomponents; Figure 3.2-1: Land and Resource Use Local and Regional Study Areas	n/a
6.4.1	124	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.4.1	125	Context and Boundaries	Figure 15 Land and Resource Use Local and Regional Study Areas	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	Figure 3.2-1: Land and Resource Use Local and Regional Study Areas	n/a
6.4.2	126	<i>Existing Conditions</i>	<i>Existing Conditions</i>	4	<i>6.0 Social Effects Assessment</i>	<i>4 Land and Resource Use Valued Component</i>	<i>4. Existing Conditions</i>	<i>6.4-A Land and Resource Use Baseline Report;</i> <i>7.1-B Cultural Use Study</i>
6.4.2	126	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	4. Existing Conditions	6.4-A Land and Resource Use Baseline Report; 7.1-B Cultural Use Study
6.4.2	126	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, a list of the information provided in the baseline report, and field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degrees of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Land and Resource Use VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Land and Resource Use VC:	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	4.1 Background Information and Studies	6.4-A Land and Resource Use Baseline Report; 7.1-B Cultural Use Study
6.4.2	126	Existing Conditions	Interviews and community consultation conducted during baseline data collection;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	4.1 Background Information and Studies	6.4-A Land and Resource Use Baseline Report; 7.1-B Cultural Use Study
6.4.2	126	Existing Conditions	Collection and review of publicly available sources of information, including information from other relevant projects;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	4.1 Background Information and Studies; 9. References	6.4-A Land and Resource Use Baseline Report; 7.1-B Cultural Use Study

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.4.2	126	Existing Conditions	Review of available socio-economic information for the Project; and	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	4.1 Background Information and Studies	6.4-A Land and Resource Use Baseline Report; 5.1-A Socio-economic Baseline Report 7.1-B Cultural Use Study
6.4.2	126	Existing Conditions	Review and integration of all relevant and available sources of TEK or land use information.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	4.1 Background Information and Studies	6.4-A Land and Resource Use Baseline Report; 7.1-B Cultural Use Study
6.4.2	126	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Land and Resource Use VC, including:	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2. Regulatory Context	n/a
6.4.2	126	Existing Conditions	<i>Local Government Act</i>. RSBC 2015. Chapter 1 (Prov BC 2015);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	126	Existing Conditions	<i>Forest and Range Practices Act</i>. SBC 2002. Chapter 69. (Prov BC 2002d);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	126	Existing Conditions	<i>Forest Act</i>. RSBC 1996. Chapter 157 (Prov BC 1996a);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	126	Existing Conditions	<i>Land Act</i>. RSBC 1996. Chapter 245 (Prov BC 1996c);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	126	Existing Conditions	<i>Mineral Tenure Act</i>. RSBC 1996. Chapter 292 (Prov BC 1996e);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	126	Existing Conditions	<i>Mining Right of Way Act</i>. RSBC 1996. Chapter 294 (Prov BC 1996d);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.4.2	126	Existing Conditions	<i>Wildlife Act</i>. RSBC 1996. Chapter 488 (Prov BC 1996j);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	126	Existing Conditions	<i>Park Act</i>. RSBC 1996. Chapter 344 (Prov BC 1996g);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	126	Existing Conditions	<i>Protected Areas of British Columbia Act</i>. SBC 2002. Chapter 17 (Prov BC 2002e); and	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	127	Existing Conditions	<i>Tourism Act</i>. RSBC 1996. Chapter 453 (Prov BC 1996h).	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	2.1 Provincial and Federal Land and Resource Use Legislation	n/a
6.4.2	127	Existing Conditions	The following Land and Resource Use VC technical reports will be provided with the Application:	4	See below	See below	See below	n/a
6.4.2	127	Existing Conditions	Land and Resource Use Baseline Report	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	4.1.3 Baseline Studies; Table 4.1-1: Summary of Desktop and Field Studies Related to Land and Resource Use Valued Component (VC)	6.4-A Land and Resource Use Baseline Report; 7.1-B Cultural Use Study
6.4.3	127	Potential Effects	Potential Effects	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5. Assessment of Project-Related Effects	n/a
6.4.3	127	Potential Effects	The Application will identify potential adverse effects to the Land and Resource Use VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.2 Potential Project-related Effects	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.4.3	127	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Land and Resource Use VC resulting from Project activities within each phase of the Project. Interactions between Project components and activities and the Land and Resource Use VC will be summarized.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.1 Potential Project-related Interactions with the Land and Resource Use Valued Component (VC); 5.2 Potential Project-related Effects	n/a
6.4.3	127	Potential Effects	The following potential effects will be assessed:	4	See below	See below	See below	n/a
6.4.3	127	Potential Effects	Change in access to or availability of land and resources for residential, recreational or commercial purposes (Construction and Operation phases);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.2 Potential Project-related Effects	n/a
6.4.3	127	Potential Effects	Change in quantity or quality of land and resources for residential, recreational or commercial purposes (Construction and Operation phases);	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.2 Potential Project-related Effects	n/a
6.4.3	127	Potential Effects	Change in residential, recreational or commercial uses due to sensory disturbance (e.g., emissions, noise or light) (Construction and Operation phases); and	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.2 Potential Project-related Effects	n/a
6.4.3	127	Potential Effects	Change in visual quality or sense of place (Construction and Operation phases).	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.2 Potential Project-related Effects	n/a
6.4.4	127	Mitigation Measures	Mitigation Measures	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.3 Mitigation Measures	n/a
6.4.4	127	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Land and Resource Use VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.3 Mitigation Measures	n/a
				6	13.0 Management Plans	14 Public Access Management Plan (PAMP)	n/a	n/a

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6.4.5	128	Residual Effects	Residual Effects	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
6.4.5	128	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
6.4.5	128	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
6.4.6	128	Cumulative Effects	Cumulative Effects	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
6.4.6	128	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	4	See below	See below	See below	n/a
6.4.6	128	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	6. Cumulative Effects Assessment (CEA)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.4.6	128	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	6.1 Cumulative Effects Assessment (CEA) for Land and Resource Use Subcomponents - Commercial Land and Resource Use, and Public Recreational Use	n/a
6.4.6	128	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	6.1.2 Additional Mitigation Measures	n/a
6.4.6	128	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a
6.4.7	128	Follow-up Strategy	Follow-up Strategy	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	8. Follow-up Strategy	n/a
6.4.7	128	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 3.9 Follow-up Strategy of this AIR.	4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	8. Follow-up Strategy	n/a
				6	13.0 Management Plans	16 Socio-economic Management Plan (SEMP)	n/a	n/a

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6.5	128	Community Well-being Valued Component	Community Well-being Valued Component	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	n/a	n/a
6.5	128	Community Well-being Valued Component	The Project has the potential to adversely affect Community Well-being related to change in demographic composition, population, employment and income, land and resource use, housing affordability and use of infrastructure, roads and community services. Such changes may increase stress or anxiety levels and place strain on traditional values, local culture as well as social fabric, affecting overall community well-being in the LSA and the RSA. This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for Community Well-being, and pathways along which potential Project related effects could occur, with cross references to other supporting VC assessment sections.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
6.5	129	Community Well-being Valued Component	The Community Well-being VC will include the following Subcomponents and their associated indicators. Please note the list of indicators is not exhaustive:	4	See below	See below	See below	n/a
6.5	129	Community Well-being Valued Component	Subcomponent	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.2 Subcomponents;	n/a
			Indicators				3.2.3 Indicators	
			NA				- Change in social and economic determinants of health, as defined by Health Canada and including: • Food security • Cost of living • Community cohesion • Mental health	
6.5	129	Community Well-being Valued Component	This VC assessment will be supported by or will support the following VC assessments:	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
6.5	129	Community Well-being Valued Component	Demographics;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	1 Demographics Valued Component	3.2.1 Valued Component (VC)	n/a

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6.5	129	Community Well-being Valued Component	Economic Development;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
				4	5.0 Economic Effects Assessment	2 Economic Development Valued Component	3.2.1 Valued Component (VC)	n/a
6.5	129	Community Well-being Valued Component	Heritage Resources;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
				4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component (VC)	n/a
6.5	129	Community Well-being Valued Component	Human Health;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
				4	8.0 Health Effects Assessment	1 Human Health	3.2.1 Valued Component (VC)	n/a
6.5	129	Community Well-being Valued Component	Infrastructure and Services	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	3.2.1 Valued Component (VC)	n/a
6.5	129	Community Well-being Valued Component	Labour Market;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
				4	5.0 Economic Effects Assessment	Chapter 1 Labour Market Valued Component	3.2.1 Valued Component (VC)	n/a
6.5	129	Community Well-being Valued Component	Land and Resource Use; and	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
6.5	129	Community Well-being Valued Component	Visual Resources.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
				4	6.0 Social Effects Assessment	2 Visual Resources Valued Component	3.2.1 Valued Component (VC)	n/a
6.5.1	129	Context and Boundaries	Context and Boundaries	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.4 Assessment Boundaries	n/a
6.5.1	129	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Community Well-being VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Community Well-being Local and Regional Study Areas	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.5.1	129	Context and Boundaries	The LSA and RSA have been selected in order to include communities potentially directly and indirectly affected within the Project area (Figure 13):	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Community Well-being Local and Regional Study Areas; Table 3.2 3: Spatial Boundary Definitions for Community Well-Being being Valued Component (VC)	n/a
6.5.1	129	Context and Boundaries	Socio-economic LSA: includes the communities of Telkwa, Smithers, Houston and Witset.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Community Well-being Local and Regional Study Areas; Table 3.2 3: Spatial Boundary Definitions for Community Well-Being being Valued Component (VC)	n/a
6.5.1	129	Context and Boundaries	Socio-economic RSA: includes the Regional District of Bulkley-Nechako and Witset.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2-1: Community Well-being Local and Regional Study Areas; Table 3.2 3: Spatial Boundary Definitions for Community Well-Being being Valued Component (VC)	n/a
6.5.1	129	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.5.2	130	Existing Conditions	Existing Conditions	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	4. Existing Conditions	n/a
6.5.2	130	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	4. Existing Conditions	n/a
6.5.2	130	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, a list of the information provided in the baseline report, and field programs or modelling undertaken with reference to any applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented, and margins of error or degrees of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to Community Well-being VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC: The following general approach is being taken to develop existing conditions for the Community Well-being VC:	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions	7.0-B Cultural Use Study; 5.1-A Socio-economic Baseline Report; 6.4-A Land and Resource Use Baseline Report
6.5.2	130	Existing Conditions	Interviews and community consultation conducted during baseline data collection;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	4.1 Background Information and Studies; 4.2 Description of Existing Conditions	n/a
6.5.2	130	Existing Conditions	Collection and review of Statistics Canada and BC Stats data (2016 Canada Census Profile (Statistics Canada 2018b); 2011 National Household Survey (Statistics Canada 2018a)) and information from other relevant projects;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	4.1.2 Scientific and Other Information, 4.1.3 Baseline Studies	n/a
6.5.2	130	Existing Conditions	Review of background information and literature describing community health and well-being in the local and regional study areas;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	4.1.2 Scientific and Other Information, 4.1.3 Baseline Studies	7.0-B Cultural Use Study; 5.1-A Socio-economic Baseline Report; 6.4-A Land and Resource Use Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.5.2	130	Existing Conditions	Review of available socio-economic information for the Project; and	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	4.1.1 Traditional Knowledge, 4.1.2 Scientific and Other Information, 4.1.3 Baseline Studies	5.1-A Socio-economic Baseline Report
6.5.2	130	Existing Conditions	Review and integration of available and appropriate sources of TEK or land use information.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	4.1.1 Traditional Knowledge (TK)	7.0-B Cultural Use Study
6.5.2	130	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Community Well-being VC, including:	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2. Regulatory Context	n/a
6.5.2	130	Existing Conditions	<i>Environmental Management Act</i> . SBC 2003. Chapter 53 (Prov BC 2003);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.1 Provincial Legislation	n/a
6.5.2	130	Existing Conditions	<i>Water Sustainability Act</i> . SBC 2014. Chapter 15 (Prov BC 2014);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.1 Provincial Legislation	n/a
6.5.2	130	Existing Conditions	<i>Agricultural Land Commission Act</i> . SBC 2002. Chapter 36 (Prov BC 2002a);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.1 Provincial Legislation	n/a
6.5.2	130	Existing Conditions	Regional District of Bulkley-Nechako Floodplain Management Bylaw No. 1300, 2004 (Regional District of Bulkley-Nechako 2016);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.2 Provincial and Regional Management Plans and Guidance Documents	n/a
6.5.2	130	Existing Conditions	Village of Telkwa bylaws (Village of Telkwa 2020);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.3 Local Regulations	n/a
6.5.2	130	Existing Conditions	Bulkley Land and Resource Management Plan (Prov BC 1998a);	4	Section 6 Social Effects Assessment	Chapter 5 Community Well-being Valued Component	2.2 Provincial and Regional Management Plans and Guidance Documents	n/a
6.5.2	131	Existing Conditions	Bulkley Valley Sustainable Resource Management Plan (Prov BC 2005);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.2 Provincial and Regional Management Plans and Guidance Documents	n/a
6.5.2	131	Existing Conditions	Standard Working Group Comments and Recommendations for Provincial Environmental Assessments in Northern British Columbia (Northern Health 2015b);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.2 Provincial and Regional Management Plans and Guidance Documents	n/a
6.5.2	131	Existing Conditions	The Social Determinants of Health Impacts of Resource Extraction and Development in Rural and Northern Communities (Northern Health and Provincial Health Services Authority 2018); and	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.2 Provincial and Regional Management Plans and Guidance Documents	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.5.2	131	Existing Conditions	Social Determinants of Health Discussion Guide (First Nations Health Council 2017).	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	2.2 Provincial and Regional Management Plans and Guidance Documents	n/a
6.5.2	131	Existing Conditions	The following Community Well-being VC technical reports will be provided with the Application:	4	See below	See below	See below	n/a
6.5.2	131	Existing Conditions	Traffic Study;	4	6.0 Social Effects Assessment	3 Infrastructure and Services Valued Component	n/a	6.3-A Technical Memo - Traffic Study
6.5.2	131	Existing Conditions	Socio-economic Baseline Report; and	4	5.0 Economic Effects Assessment	Chapter 1 Labour Market Valued Component	n/a	5.1-A Socio-economic Baseline Report
6.5.2	131	Existing Conditions	Human Health Risk Assessment Report.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	n/a	7.0-A Human Health Risk Assessment
6.5.3	131	Potential Effects	Potential Effects	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5. Assessment of Project-Related Effects	n/a
6.5.3	131	Potential Effects	The Application will identify potential adverse effects to the Community Well-being VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.2 Potential Project-related Effects	n/a
6.5.3	131	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Community Well-being VC resulting from project activities within each phase of the Project. Interactions between Project components and activities and the Community Well-being VC will be summarized.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.1 Potential Project-related Interactions with Community Well-Being; 5.2 Potential Project-related Effects	n/a
6.5.3	131	Potential Effects	The following potential effects will be assessed:	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.2 Potential Project-related Effects	n/a
6.5.3	131	Potential Effects	A change in food security (Construction and Operation phases);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.2.2 Change in Food Security	n/a
6.5.3	131	Potential Effects	A change in the cost of living (Construction and Operation phases);	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.2.3 Change in Cost of Living	n/a
6.5.3	131	Potential Effects	A change in community cohesion (Construction and Operation phases); and	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.2.4 Change in Community Cohesion	n/a
6.5.3	131	Potential Effects	A change in the indicators of community and/or mental health (Construction and Operation phases).	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.2.5 Change in Mental Health	n/a

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6.5.4	131	Mitigation Measures	Mitigation Measures	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.3 Mitigation Measures	n/a
6.5.4	131	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Community Well-being VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	2 Air Quality Management Plan (AQMP); 6 Explosives Management Plan (EMP); 7 Fuel Management and Spill Control Plan (FMSCP); 9 Mine Emergency Response Plan (MERP); 10 Minesite Traffic Control Plan (MTCP); 12 ML/ARD Management Plan (ML/ARDMP); 13 Occupational Health and Safety Program (OHSP); 14 Public Access Management Plan (PAMP); 15 Reclamation and Closure Plan (RCP); 16 Socio-Economic Management Plan (SEMP); 19 Visual Resources Management Plan (VRMP).	n/a	n/a
6.5.5	132	Residual Effects	Residual Effects	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.5.5	132	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
6.5.5	132	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
6.5.6	132	Cumulative Effects	Cumulative Effects	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
6.5.6	132	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
6.5.6	132	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	6. Cumulative Effects Assessment (CEA); Table 6-1: Projects Included in the Cumulative Assessment of the Community Well-being Valued Component (VC) Based on Spatial and Temporal Interaction; Figure 6-1: Projects and Activities Included in the Cumulative Effects Assessment for Community Well-being	n/a
6.5.6	132	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	6.1 Cumulative Effects Assessment (CEA) - Community Well-being Valued Component (VC); 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
6.5.6	132	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	6.1.2 Additional Mitigation Measures	n/a
6.5.6	132	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	6.1.3 Cumulative Effects and Characterisation of Significance; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a
6.5.7	132	Follow-up Strategy	Follow-up Strategy	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	8. Follow-up Strategy	n/a
6.5.7	132	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 3.9 Follow-up Strategy of this AIR.	4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	14 Public Access Management Plan (PAMP); 15 Reclamation and Closure Plan (RCP); 16 Socio-Economic Management Plan (SEMP); 19 Visual Resources Management Plan (VRMP).	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language		Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
7	133	HERITAGE EFFECTS ASSESSMENT	HERITAGE EFFECTS ASSESSMENT		4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	n/a	n/a
7	133	HERITAGE EFFECTS ASSESSMENT	The Application will include an assessment of Heritage Resources 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 .		4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	n/a	n/a
7.1	133	Heritage Resources Valued Component	Heritage Resources Valued Component		4	See below	See below	See below	See below
7.1	133	Heritage Resources Valued Component	The Project area has been identified as an area of archaeological potential and heritage sensitivity. Heritage Resource VC subcomponents are known to occur in the Project area and are currently protected under the provincial <i>Heritage Conservation Act</i> (Prov BC 1996b). This section of the Application will present the subcomponents, indicators, and boundaries of the assessment for the Heritage Resources VC, and pathways along which potential Project-related effects could occur, with cross references to other supporting VC assessment sections.		4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
7.1	133	Heritage Resources Valued Component	The Heritage Resources VC will include the following subcomponents and associated indicators:		4	See below	See below	See below	See below
7.1	133	Heritage Resources Valued Component	Subcomponent	Indicators	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.2 Subcomponents; 3.2.3 Indicators	n/a
			Archaeological Resources; Historic and Cultural Sites	Change in presence, number, type, significance of resources					
7.1	133	Heritage Resources Valued Component	This VC assessment may support and be supported by the following VC assessments:		4	See below	See below	See below	See below
7.1	133	Heritage Resources Valued Component	Community Well-being;		4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component (VC)	n/a
					4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component (VC)	n/a
7.1	133	Heritage Resources Valued Component	Land and Resource Use;		4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component (VC)	n/a
					4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
7.1	133	Heritage Resources Valued Component	Vegetation; and		4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component (VC)	n/a
					4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a
7.1	133	Heritage Resources Valued Component	Wildlife.		4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.1 Valued Component (VC)	n/a
					4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component (VC)	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
7.1.1	133	Context and Boundaries	Context and Boundaries	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.4 Assessment Boundaries	n/a
7.1.1	133	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable for the Heritage Resources VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.4 Assessment Boundaries; Figure 3.2-1: Heritage Resources Local and Regional Study Areas	n/a
7.1.1	133	Context and Boundaries	Proposed boundaries for the LSA and RSA include areas that may be affected by Project-related activities (Figure 16).	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Heritage Resources Local and Regional Study Areas; Table 3.2-3: Spatial Boundary Definitions for the Heritage Resources Valued Component (VC)	n/a
7.1.1	133	Context and Boundaries	Heritage Resources LSA: includes the Project Area with a 100 m buffer, because effects on this VC can only arise through direct ground disturbance.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2-3: Spatial Boundary Definitions for the Heritage Resources Valued Component; Figure 3.2-1: Heritage Resources Local and Regional Study Areas	n/a
7.1.1	133	Context and Boundaries	Heritage Resources RSA: the boundary has been primarily defined by the House boundaries of the Gitdumden and Laksilyu Wet'suwet'en Clans. The RSA also includes a 500 m buffer on the Water Discharge Infrastructure near the confluence of Tenas Creek and the Telkwa River.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.4.1 Spatial Boundaries; Table 3.2-3: Spatial Boundary Definitions for the Heritage Resources Valued Component; Figure 3.2-1: Heritage Resources Local and Regional Study Areas	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
7.1.1	134	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and the Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
7.1.1	135	Context and Boundaries	Figure 16 Heritage Resources Local and Regional Study Areas	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	Figure 3.2-1: Heritage Resources Local and Regional Study Areas	n/a
7.1.2	136	Existing Conditions	Existing Conditions	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4. Existing Conditions	7.1-A Tenas Project Archaeology Baseline Report; 7.1-B Tenas Project Cultural Use Study; 7.1-C Tenas Project Fossil Impact Assessment Preliminary Study
7.1.2	136	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4. Existing Conditions	7.1-A Tenas Project Archaeology Baseline Report; 7.1-B Tenas Project Cultural Use Study; 7.1-C Tenas Project Fossil Impact Assessment Preliminary Study
7.1.2	136	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC, including literature reviews and desktop studies, list of the information provided in the baseline report, field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods where available. Any assumptions will be documented. Margins of error or degrees of uncertainty will be reported where appropriate. The Application will describe available traditional ecological or community knowledge related to the Heritage Resources VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1 Background Information and Studies	7.1-A Tenas Project Archaeology Baseline Report; 7.1-B Tenas Project Cultural Use Study; 7.1-C Tenas Project Fossil Impact Assessment Preliminary Study

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
7.1.2	136	Existing Conditions	The following general approach is being taken to develop existing conditions for the Heritage Resources VC:	4	See below	See below	See below	See below
7.1.2	136	Existing Conditions	Review existing information:	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4. Existing Conditions	n/a
7.1.2	136	Existing Conditions	Previously completed archaeological assessments (Impact Assessment, Heritage Overview Assessment, and Archaeological Overview Assessment), including subsequent mapping information, to determine terrain within the LSA that has potential to contain precontact archaeological sites (pre-dating anno domini (AD) 1846) within the LSA; this guides the in-field archaeological assessment;	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1 Background Information and Studies	7.1-A Tenas Project Archaeology Baseline Report
7.1.2	136	Existing Conditions	Archaeological site forms to determine regional site type(s), artifact assemblages, and condition of previously recorded archaeological sites within the LSA; and	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1 Background Information and Studies; 4.1.3 Baseline Studies	7.1-A Tenas Project Archaeology Baseline Report
7.1.2	136	Existing Conditions	Available Traditional Use Studies and TEK.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1.1 Traditional Knowledge (TK)	7.1-B Tenas Project Cultural Use Study
7.1.2	136	Existing Conditions	Conduct planned activities:	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1.3 Baseline Studies	7.1-A Tenas Project Archaeology Baseline Report
7.1.2	136	Existing Conditions	Completion of an Archaeological Impact Assessment, including in-field studies based on results of the Archaeological Overview Assessment to confirm/refute the presence of precontact archaeological material and officially record previously undocumented precontact archeological sites with the Archaeology Branch;	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1.3 Baseline Studies	7.1-A Tenas Project Archaeology Baseline Report
7.1.2	136	Existing Conditions	Include Wet'suwet'en participation and knowledge in heritage assessments;	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1.1 Traditional Knowledge (TK)	7.1-B Tenas Project Cultural Use Study
7.1.2	136	Existing Conditions	Consider expert input into relative importance of affected resources; and	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1 Background Information and Studies	7.1-A Tenas Project Archaeology Baseline Report; 7.1-B Tenas Project Cultural Use Study; 7.1-C Tenas Project Fossil Impact Assessment Preliminary Study
7.1.2	136	Existing Conditions	Determine potential effects on archaeological sites and materials and provide recommendations to prevent or reduce impacts to archaeological sites.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5. Assessment of Project-Related Effects	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
7.1.2	136	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Heritage Resources VC, including:	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	2. Regulatory Context	n/a
7.1.2	137	Existing Conditions	Provincial Guidelines:	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	2. Regulatory Context	n/a
7.1.2	137	Existing Conditions	<i>Heritage Conservation Act</i>. RSBC 1996, Chapter 187 (Prov BC 1996);	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	2. Regulatory Context; Table 2-1: Summary of Applicable Regulatory and Policy Framework for the Heritage Resources Valued Component (VC)	n/a
7.1.2	137	Existing Conditions	British Columbia Archaeology Inventory Guidelines (Archaeology Branch 2000); and	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	2. Regulatory Context; Table 2-1: Summary of Applicable Regulatory and Policy Framework for the Heritage Resources Valued Component (VC)	7.1-A Tenas Project Archaeology Baseline Report; 7.1-B Tenas Project Fossil Impact Assessment Preliminary Study
7.1.2	137	Existing Conditions	Archaeology Impact Assessment Guidelines (Archaeology Branch 1989 [revised 1998]).	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	Table 2-1: Summary of Applicable Regulatory and Policy Framework for the Heritage Resources Valued Component (VC)	n/a
7.1.2	137	Existing Conditions	Indigenous Nation Guidelines	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1.1 Traditional Knowledge (TK)	7.1-B Tenas Project Cultural Use Study
7.1.2	137	Existing Conditions	Applicable documents shared by the Wet'suwet'en will be included in this assessment.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1.1 Traditional Knowledge (TK)	7.1-B Tenas Project Cultural Use Study
7.1.2	137	Existing Conditions	The following Heritage Resources VC technical reports may be provided with the Application if they do not contain confidential information:	4	See below	See below	See below	See below
7.1.2	137	Existing Conditions	Archaeological Overview Assessment: Tenas Project (Crossroads 2018).	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1.3 Baseline Studies	7.1-A Tenas Project Archaeology Baseline Report
7.1.2	137	Existing Conditions	Archaeological Impact Assessment (TBC).	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	4.1.3 Baseline Studies	7.1-A Tenas Project Archaeology Baseline Report

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
7.1.3	137	Potential Effects	Potential Effects	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5. Assessment of Project-related Effects	n/a
7.1.3	137	Potential Effects	The Application will identify potential adverse effects to the Heritage Resources VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5.2 Potential Project-related Effects	n/a
7.1.3	137	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Heritage Resources VC resulting from project activities within each phase of the Project. Interactions between Project components and activities and the Heritage Resources VC will be summarized.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5.1 Potential Project-related Interactions with Heritage Resources Valued Component (VC); 5.2 Potential Project-related Effects	n/a
7.1.4	137	Mitigation Measures	Mitigation Measures	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5.3 Mitigation Measures	n/a
7.1.4	137	Mitigation Measures	The Application will identify measures to avoid, manage or otherwise mitigate potential adverse effects to the Heritage Resources VC in a manner consistent with section 3.5 Mitigation Measures of this AIR. Relevant management plans will be referenced. Linkages to other sections in the Application will be identified.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5.3 Mitigation Measures	n/a
7.1.5	137	Residual Effects	Residual Effects	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
7.1.5	137	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a
7.1.5	137	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood , 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Residual Adverse Effects and Significance	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
7.1.6	138	Cumulative Effects	Cumulative Effects	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
7.1.6	138	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	4	See below	See below	See below	n/a
7.1.6	138	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
7.1.6	138	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
7.1.6	138	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
7.1.6	138	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
7.1.7	138	Follow-up Strategy	Follow-up Strategy	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	8. Follow-up Strategy	n/a
7.1.7	138	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 3.9 Follow-up Strategy of this AIR.	4	7.0 Heritage Effects Assessment	1 Heritage Resources Valued Component	8. Follow-up Strategy	n/a
				6	13.0 Management Plans and Management Strategies	8 Heritage Resources Management Plan (HRMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
8	139	HEALTH EFFECTS ASSESSMENT	HEALTH EFFECTS ASSESSMENT	4	8.0 Health Effects Assessment	1 Human Health Valued Component	n/a	n/a
8	139	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 .	4	8.0 Health Effects Assessment	1 Human Health Valued Component	n/a	n/a
8.1	139	Human Health Valued Component	Human Health Valued Component	4	See below	See below	See below	See below
8.1	139	Human Health Valued Component	Physical determinants of health comprise environmental conditions that have the potential to affect human health through biophysical media, including water quality, soil quality, air quality and dust, quality of sustenance foods, and change in noise levels. This section of the Application will present the indicators and boundaries of the assessment for the Human Health VC, and pathways along which potential Project-related effects could occur, with cross references to other supporting VC assessment sections. The Human Health VC will include the following indicators:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	1. Introduction; 3. Scope of the Assessment	n/a
8.1	139	Human Health Valued Component	Subcomponent	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3. Scope of the Assessment;	n/a
			Indicators				3.2.2 Subcomponents;	
			NA				3.2.3 Indicators	
8.1	139	Human Health Valued Component	This VC assessment may support and be supported by the following VC assessments:	4	See below	See below	See below	See below
8.1	139	Human Health Valued Component	Atmospheric Environment;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	1 Atmospheric Environment Valued Component	3.2.1 Valued Component	n/a
8.1	139	Human Health Valued Component	Avian Species;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	9 Avian Species Valued Component	3.2.1 Valued Component	n/a
8.1	139	Human Health Valued Component	Community Well-being;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				4	6.0 Social Effects Assessment	5 Community Well-being Valued Component	3.2.1 Valued Component	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
8.1	139	Human Health Valued Component	Fish and Fish Habitat;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	6 Fish and Fish Habitat Valued Component	3.2.1 Valued Component	n/a
8.1	139	Human Health Valued Component	Groundwater;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	4 Groundwater Valued Component	3.2.1 Valued Component	n/a
8.1	139	Human Health Valued Component	Land and Resource Use;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component	n/a
				3	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component	n/a
8.1	139	Human Health Valued Component	Surface Water;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	3 Surface Water Valued Component	3.2.1 Valued Component	n/a
8.1	139	Human Health Valued Component	Terrain and Soils;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				3	4.0 Environmental Effects Assessment	2 Terrain and Soils Valued Component	3.2.1 Valued Component	n/a
8.1	139	Human Health Valued Component	Vegetation; and	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component	n/a
8.1	139	Human Health Valued Component	Wildlife.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
				4	6.0 Social Effects Assessment	4 Land and Resource Use Valued Component	3.2.1 Valued Component	n/a
8.1.1	140	Context and Boundaries	Context and Boundaries	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.4 Assessment Boundaries	n/a
8.1.1	140	Context and Boundaries	The Application will identify the spatial, temporal, administrative and technical study area boundaries, as applicable to the Human Health VC, including maps, in a manner consistent with section 3.2 Assessment Boundaries of the AIR.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.4 Assessment Boundaries; Figure 3.2 1: Local Study Areas (LSA) and Regional Study Areas (RSA) for Human Health; Table 3.2-3: Spatial Boundary Definitions for Human Health	n/a

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8.1.1	140	Context and Boundaries	Human health boundaries are based on boundaries of VCs that support the Human Health VC (Figure 17).	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.4.1 Spatial Boundaries; Figure 3.2 1: Local Study Areas (LSA) and Regional Study Areas (RSA) for Human Health	n/a
8.1.1	140	Context and Boundaries	Human Health LSA: The Human Health LSA will be based primarily on the LSA for the Air Quality Subcomponent of the Atmospheric Environment VC, which corresponds to the air quality modeling domain. The Air Quality LSA is expected to cover the largest area and therefore includes the LSA boundaries of the VCs that quantitatively support the Human Health LSA (Atmospheric Environment, Surface Water, Groundwater, Terrain and Soils, and Vegetation).	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.4.1 Spatial Boundaries	n/a
8.1.1	140	Context and Boundaries	Human Health RSA: The Human Health RSA is the same as the Air Quality RSA.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.4.1 Spatial Boundaries	n/a
8.1.1	140	Context and Boundaries	The Application will include analyses for the Construction, Operation, Decommissioning and Reclamation and Post-closure phases of the Project. If applicable, other boundaries may be described in the Application. These may include temporal, administrative, and technical boundaries. If there are no other relevant boundaries, this will be stated.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.4.2 Temporal Boundaries; 3.2.4.3 Administrative Boundaries; 3.2.4.4 Technical Boundaries	n/a
8.1.1	141	Context and Boundaries	Figure 17 Human Health Local and Regional Study Areas	4	8.0 Health Effects Assessment	1 Human Health Valued Component	Figure 3.2 1: Local Study Areas (LSA) and Regional Study Areas (RSA) for Human Health	n/a
8.1.2	142	Existing Conditions	Existing Conditions	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4. Existing Conditions	8.0-A Human Health Risk Assessment
8.1.2	142	Existing Conditions	The Application will summarize existing conditions in a manner consistent with section 3.3 Existing Conditions of this AIR.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4. Existing Conditions	8.0-A Human Health Risk Assessment

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
8.1.2	142	Existing Conditions	This section of the Application will describe the approach taken to characterize the existing conditions of the VC (including literature reviews and desktop studies), and list the information provided in the baseline report, and field programs or modelling undertaken with reference to applicable standards or methods. The Application will indicate the sources of the regional and site-specific data, including the time frame and data collection methods, where available. Any assumptions will be documented. Margins of error or degree of uncertainty will be reported, where appropriate. The Application will describe available traditional ecological or community knowledge related to the Human Health VC. The Application will use relevant associated documents produced for the Project and publicly available studies for other projects in central BC. The following general approach is being taken to develop existing conditions for the Human Health VC.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4. Existing Conditions	8.0-A Human Health Risk Assessment
8.1.2	142	Existing Conditions	A Baseline Human Health Risk Assessment (HHRA) will be used to characterize baseline human health from biophysical determinants of health. The HHRA consists of a problem formulation, an exposure assessment, toxicity assessment, risk characterization, and an uncertainty analysis.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4. Existing Conditions	8.0-A Human Health Risk Assessment
8.1.2	142	Existing Conditions	Problem formulation:	See below	See below	See below	See below	See below
8.1.2	142	Existing Conditions	Reviews current use of land and resources for traditional purposes, and reviews any TEK where relevant and available;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.1 Background Information and Studies	8.0-A Human Health Risk Assessment
8.1.2	142	Existing Conditions	Identifies human receptors of concern;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2.2 Human Receptors of Concern and Receptor Locations	8.0-A Human Health Risk Assessment

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8.1.2	142	Existing Conditions	Reviews baseline reports for surface water and groundwater quality, air quality, noise, fish and fish habitat, wildlife, avian species, soil, and vegetation;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.1.3 Baseline Studies	8.0-A Human Health Risk Assessment
8.1.2	142	Existing Conditions	Compiles baseline concentration datasets for surface water, groundwater, fish tissues, soil, vegetation, air quality, and screens datasets against applicable guidelines to identify contaminants of potential concern (COPCs); and	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.1.3 Baseline Studies	8.0-A Human Health Risk Assessment
8.1.2	142	Existing Conditions	Identifies operable exposure pathways from environmental media to human receptors of concern for identified COPCs and summarizes the information in a conceptual site model.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 4.2.4 Types, Sources, and Transport Pathways of Contaminants of Potential Concern (COPC)	8.0-A Human Health Risk Assessment
8.1.2	142	Existing Conditions	Exposure assessment:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 5. Assessment of Project-Related Effects	8.0-A Human Health Risk Assessment
8.1.2	142	Existing Conditions	Uses exposure models to calculate the total exposure concentration for COPCs in environmental media (i.e., surface water, groundwater, air, soil, and sustenance foods (country foods such as vegetation, wildlife, and avian species).	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 5. Assessment of Project-Related Effects	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	Toxicity assessment:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 5. Assessment of Project-Related Effects	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	Identifies toxicity thresholds from literature review for COPCs for identified receptors.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 5. Assessment of Project-Related Effects	8.0-A Human Health Risk Assessment

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8.1.2	143	Existing Conditions	Risk characterization:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 5. Assessment of Project-Related Effects	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	Integrates the exposure and toxicity assessments to produce quantitative risk estimates; and	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 5. Assessment of Project-Related Effects	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	Conclusions regarding risk to human receptors are made.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 5. Assessment of Project-Related Effects	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	Uncertainty analysis:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2.10 Uncertainty in Base Case Characterisation	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	Describes assumptions and uncertainties encountered during the process of risk assessment and whether they could affect the conclusions of the risk assessment.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2.10 Uncertainty in Base Case Characterisation	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	Inputs, assumptions, and results of the HHRA will be summarized for the existing conditions for the Human Health VC.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions; 5. Assessment of Project-Related Effects	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	The Application will identify and describe applicable provincial and federal legislation, policies, BMPs and guidance documents related to Human Health VC, including:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context	n/a
8.1.2	143	Existing Conditions	Useful Information for Environmental Assessments (Health Canada 2010c);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component	n/a
8.1.2	143	Existing Conditions	Guidelines for Evaluating Human Health Impacts in Environmental Assessment: Human Health Risk Assessment (Health Canada 2019);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context; 4.1.3 Baseline Studies; 5.2.2.1 Air Quality - Operation Phase; 5.4.3.1.1 Residual Effects from Non-carcinogenic Contaminants of Potential Concern (COPC)	n/a

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8.1.2	143	Existing Conditions	Federal Contaminated Site Risk Assessment in Canada, Supplemental Guidance on Human Health Risk Assessment on Air Quality, Version 2.0 (Health Canada 2017a);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context	n/a
8.1.2	143	Existing Conditions	Provincial Air Quality Objective Information Sheet - British Columbia Ambient Air Quality Objectives (BC Ministry of Environment and Climate Change Strategy 2020b);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	n/a	8.0-A Human Health Risk Assessment
8.1.2	143	Existing Conditions	Canadian Ambient Air Quality Standards (CAAQS): State of the Air Report (CCME 2020b);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context	n/a
8.1.2	143	Existing Conditions	National Ambient Air Quality Objectives for Particulate Matter (Health Canada 1998);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context	n/a
8.1.2	143	Existing Conditions	Guidance for Evaluating Human Health Impacts in Environmental Assessment: Air Quality (Health Canada 2016a);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context	n/a
8.1.2	143	Existing Conditions	Guidelines for Community Noise (World Health Organization 1999);				WHO. 1999.	
8.1.2	143	Existing Conditions	Guidance for Evaluating Human Health Impacts in Environmental Assessment: Noise (Health Canada 2017b);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context; 5.2.3 Potential Project-related Effects on Human Health due to Noise 5.4.4 Residual Effects on Human Health due to Noise	n/a
8.1.2	144	Existing Conditions	Guidance for Evaluating Human Health Impacts in Environmental Assessment: Drinking and Recreational Water Quality (Health Canada 2016a);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.4.1 Assessment Methodology	n/a
8.1.2	144	Existing Conditions	Guidance on Human Health Risk Assessment. Version 1.0. (Northern Health 2015b);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context; 5.4.1 Assessment Methodology	n/a
8.1.2	144	Existing Conditions	Guidelines for Canadian Drinking Water Quality Summary Table (Health Canada 2020);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2.5.2 Drinking Water Quality	n/a
8.1.2	144	Existing Conditions	Canadian Environmental Quality Guidelines (CCME 2020b);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	n/a	8.0-A Human Health Risk Assessment

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8.1.2	144	Existing Conditions	Guidance for Evaluating Human Health Impacts in Environmental Assessment: Country Foods (Health Canada 2018);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context; 3. Scope of The Assessment; 4.1.3 Baseline Studies; 4.2.4.1 Base Case Sources and Types of Contaminants of Potential Concern (COPC); 4.2.5.5 Market (Store-Bought) Food Quality; 4.2.7 Hazard Quotients under Existing Base Case Conditions; 4.2.8 Incremental Lifetime Cancer Risk under Existing Conditions; 5.4.1 Assessment Methodology; 5.4.3.1.1 Residual Effects from Non-carcinogenic Contaminants of Potential Concern (COPC)	n/a
8.1.2	144	Existing Conditions	Federal Contaminated Site Risk Assessment in Canada, Part I: Guidance on Human Health Preliminary Quantitative Risk Assessment, Version 2.0 (Health Canada 2010a);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context	n/a
8.1.2	144	Existing Conditions	Federal Contaminated Site Risk Assessment in Canada, Part II: Health Canada Toxicological Reference Values and Chemical-Specific Factors, Version 2.0 (Health Canada 2010b);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	2. Regulatory Context	n/a
8.1.2	144	Existing Conditions	Source Drinking Water Quality Guidelines (BC Ministry of Environment and Climate Change Strategy 2020a); and	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2.5.2 Drinking Water Quality	n/a
8.1.2	144	Existing Conditions	Standard Working Group Comments and Recommendations for Provincial Environmental Assessments in Northern British Columbia. Version 2.1. (Northern Health 2015b).	4	8.0 Health Effects Assessment	1 Human Health Valued Component	3.2.1 Valued Component (VC)	n/a

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8.1.2	144	Existing Conditions	The following Human Health VC technical reports will be provided with the Application:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions	8.0-A Human Health Risk Assessment
8.1.2	144	Existing Conditions	Human Health Risk Assessment Report.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	4.2 Description of Existing Conditions	8.0-A Human Health Risk Assessment
8.1.3	144	Potential Effects	Potential Effects	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5. Assessment of Project-related Effects	8.0-A Human Health Risk Assessment
8.1.3	144	Potential Effects	The Application will identify potential adverse effects to the Human Health VC in a manner consistent with section 3.4 Potential Effects of this AIR.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5. Assessment of Project-related Effects	8.0-A Human Health Risk Assessment
8.1.3	144	Potential Effects	The Application will describe the analysis, methodology and standards used to determine the potential effects on the Human Health VC resulting from project activities within each phase of the Project. Interactions between Project components and activities and the Human Health VC will be summarized.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.1 Potential Project-related Interactions with Human Health; 5.2 Potential Project-related Effects	n/a
8.1.3	144	Potential Effects	The potential for change in human health will be predicted in the “Human Health Risk Assessment Report” using the same risk assessment approach described in section 8.1.2 Existing Conditions using predicted (modelled) COPC concentrations in surface water, ground water, dust, soil, and subsistence foods (country foods), and predicted air contaminants and noise levels.	See below	See below	See below	See below	See below
8.1.3	144	Potential Effects	The following potential effects will be assessed:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.2 Potential Project-related Effects	n/a
8.1.3	144	Potential Effects	Change in human health based on change in:	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.2 Potential Project-related Effects	n/a
8.1.3	145	Potential Effects	Air quality;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.2.1 Potential Project-related Effects on Human Health due to Changes in Air Quality (Criteria Air Contaminants [CACs])	n/a

Application Information Requirements (AIR)				Environmental Assessment Certification Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
8.1.3	145	Potential Effects	Drinking water quality;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.2.2 Potential Project-related Effects on Human Health due to Changes in Environmental Media Quality	n/a
8.1.3	145	Potential Effects	Soil or vegetation quality (including from dust deposition);	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.2.2 Potential Project-related Effects on Human Health due to Changes in Environmental Media Quality	n/a
8.1.3	145	Potential Effects	Subsistence food quality such as plants, fish, animals, or birds; and	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.2.2 Potential Project-related Effects on Human Health due to Changes in Environmental Media Quality	n/a
8.1.3	145	Potential Effects	Noise levels.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.2.2 Potential Project-related Effects on Human Health due to Changes in Environmental Media Quality	n/a

Application Information Requirements (AIR)				Environmental Assessment Certification Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
8.1.4	145	Mitigation Measures	Mitigation Measures	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.3 Mitigation Measures	n/a
8.1.4	145	Mitigation Measures		4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.3 Mitigation Measures	n/a
				7	13.0 Management Plans	2 Air Quality Management Plan (AQMP); 3 Chemicals and Materials Storage, Transfer, and Handling Plan (CMSTHP); 4 Construction Environmental Management Plan (CEMP); 5 Discharge Management Plan (DMP); 6 Explosives Management Plan (EMP); 7 Fuel Management and Spill Control Plan (FMSCP); 9 Mine Emergency Response Plan (MERP); 10 Minesite Traffic Control Plan (MTCP); 11 Minesite Water Management Plan (MWMP); 12 ML/ARD Management Plan (ML/ARDMP); 14 Public Access Management Plan (PAMP); 15 Reclamation and Closure Plan (RCP); 17 Surface Erosion Protection and Sediment Control Plan (SESPCP); 18 Vegetation Management Plan (VMP); 20 Waste Management Plan for Refuse and Emissions (WMPRE);	n/a	n/a

Application Information Requirements (AIR)				Environmental Assessment Certification Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
						21 Wildlife Management Plan (WMP).		
8.1.5	145	Residual Effects	Residual Effects	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
8.1.5	145	Residual Effects	Where an adverse residual effect is identified, the Application will characterize the residual effect based on the magnitude, geographic extent, duration, frequency, reversibility, and context as described in section 3.6 Characterization of Residual Effects of this AIR.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
8.1.5	145	Residual Effects	Where an adverse residual effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	5.4 Residual Effects and Significance of Residual Effects; 5.5 Summary of Project-related Adverse Residual Effects and Significance	n/a
8.1.6	145	Cumulative Effects	Cumulative Effects	4	8.0 Health Effects Assessment	1 Human Health Valued Component	6. Cumulative Effects Assessment (CEA)	n/a
8.1.6	145	Cumulative Effects	If a residual effect is identified, unless stated otherwise by EAO, the Application will:	See below	See below	See below	See below	See below

Application Information Requirements (AIR)				Environmental Assessment Certification Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
8.1.6	145	Cumulative Effects	Determine whether any cumulative interactions between residual effects of the 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 3.8.1 Identifying Past, Present or Reasonably Foreseeable Projects and/or Activities of this AIR;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	6. Cumulative Effects Assessment (CEA); Table 6-1: Projects Included in the Assessment of the Human Health VC Based on Spatial and Temporal Interaction; Figure 6-1: Map of Projects and Activities Considered for the Cumulative Effects Assessment; 6.1 Cumulative Effects for the Human Health VC	n/a
8.1.6	145	Cumulative Effects	Conduct a cumulative effects assessment consistent with section 3.8.2 Conducting a Cumulative Effects Assessment of this AIR;	4	8.0 Health Effects Assessment	1 Human Health Valued Component	6. Cumulative Effects Assessment (CEA); 6.1 Cumulative Effects for the Human Health VC	n/a
8.1.6	145	Cumulative Effects	Identify any additional mitigation measures, consistent with section 3.5 Mitigation Measures of this AIR; and	4	8.0 Health Effects Assessment	1 Human Health Valued Component	6.1.2 Additional Mitigation Measures	n/a
8.1.6	145	Cumulative Effects	Where an adverse residual cumulative effect is identified, the Application will also describe the likelihood, Proponent's significance determination and predictive confidence, in accordance with sections 3.6.1 Likelihood, 3.7 Proponent's Determination of Significance and 3.7.1 Confidence and Risk of this AIR.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	6.1 Cumulative Effects for the Human Health VC; 6.2 Summary of Cumulative Effects Assessment (CEA)	n/a

Application Information Requirements (AIR)				Environmental Assessment Certification Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
8.1.7	146	Follow-up Strategy	Follow-up Strategy	4	8.0 Health Effects Assessment	1 Human Health Valued Component	8. Follow-up Strategy	n/a
8.1.7	146	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 3.9 Follow-up Strategy of this AIR.	4	8.0 Health Effects Assessment	1 Human Health Valued Component	8. Follow-up Strategy	n/a
				7	13.0 Management Plans	2 Air Quality Management Plan (AQMP); 11 Minesite Water Management Plan (MWMP); 15 Reclamation and Closure Plan (RCP); 18 Vegetation Management Plan (VMP)	n/a	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
9	147	ACCIDENTS AND MALFUNCTIONS	ACCIDENTS AND MALFUNCTIONS	4	9.0 Accidents and Malfunctions	n/a	n/a	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	This section of the Application will present a risk-based approach for the assessment of accidents and malfunctions during all phases of the Project. It will include a description of potential credible accidents and malfunctions associated with the Project, and the conditions under which they could occur. Proposed mitigations and contingency plans will be provided in the Application and will reference the appropriate management plans included in the Application. Predicted effects to VCs will be evaluated for significance and conclusions of the assessment will be presented. Specifically, the Application will include the following:	4	9.0 Accidents and Malfunctions	n/a	2. Scope; 3. Management Plans; 4. Methodology; 5. Risk Assessment Scenarios; 6. Summary of Risk Assessment For Scenarios Listed	13.11-B Tenas Project Dam Breach Assessment Report
9	147	ACCIDENTS AND MALFUNCTIONS	Identification of potential accidents and malfunctions:	4	9.0 Accidents and Malfunctions	n/a	4.1 Scenarios Identified for Assessment; 5. Risk Assessment Scenarios	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	The overall methodology for assessing the potential risk of an event (likelihood and consequence);	4	9.0 Accidents and Malfunctions	n/a	4. Methodology	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	Definitions of each category of likelihood;	4	9.0 Accidents and Malfunctions	n/a	4.3 Risk Assessment	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	Definitions for each category of consequence;	4	9.0 Accidents and Malfunctions	n/a	4.3 Risk Assessment	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	An assessment of the likelihood of the event occurring, based on historical trends and predictive models;	4	9.0 Accidents and Malfunctions	n/a	4.2 Interactions between Assessed Scenarios and Receptor Valued Components (VCs); 5.1.3, 5.2.3, 5.3.3, 5.4.1.3, 5.4.2.3, 5.5.1.3, 5.5.2.3 5.6.3, 5.7.3, 5.8.3, 5.9.3, 5.10.3, 5.11.3 Assessment of Likelihood (for each of the potential events.	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
9	147	ACCIDENTS AND MALFUNCTIONS	Identification of measures to reduce the likelihood of the event;	4	9.0 Accidents and Malfunctions	n/a	5.1.2 Mitigation and Management Measures for Failure of the Management Ponds; 5.2.2 Mitigation and Management Measures for Management Ponds; 5.3.2 Mitigation and Management Measures for Misplacement of Potentially Acid Generating (PAG) Material; 5.4.1.2 Mitigation and Management Measures for Hydrocarbon Spill in Water; 5.4.2.2 Mitigation and Management Measures for Non-hydrocarbon Hazardous Substances Into Water; 5.5.1.2 Mitigation and Management Measures for Hydrocarbon Spill onto Land; 5.5.2.2 Mitigation and Management Measures for Non-hazardous Substance Spill Onto Land;	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
							5.6.2 Mitigation and Management Measures for Sediment Release into Water; 5.7.2 Mitigation and Management Measures for Motor Vehicle Accident; 5.8.2 Mitigation and Management Measures for a Rail Accident; 5.9.2 Mitigation and Management Measures for Earthworks Failure; 5.10.2 Mitigation and Management Measures for a Power Failure; 5.11.2 Mitigation and Management Measures for Fires or Explosions	
9	147	ACCIDENTS AND MALFUNCTIONS	Assessment of consequence of the event, in a manner consistent with the direct effects assessment,	4	9.0 Accidents and Malfunctions	n/a	5.1.4, 5.2.4, 5.3.4, 5.4.1.4, 5.4.2.4, 5.5.1.4, 5.5.2.4, 5.6.4, 5.7.4, 5.8.4, 5.9.4, 5.10.4, 5.11.4 Assessment of Consequence (for each of the possible events)	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
9	147	ACCIDENTS AND MALFUNCTIONS	Identification of measures to mitigate the consequences to valued components; and	4	9.0 Accidents and Malfunctions	n/a	5.1.2 Mitigation and Management Measures for Failure of the Management Ponds; 5.2.2 Mitigation and Management Measures for Management Ponds; 5.3.2 Mitigation and Management Measures for Misplacement of Potentially Acid Generating (PAG) Material; 5.4.1.2 Mitigation and Management Measures for Hydrocarbon Spill in Water; 5.4.2.2 Mitigation and Management Measures for Non-hydrocarbon Hazardous Substances Into Water; 5.5.1.2 Mitigation and Management Measures for Hydrocarbon Spill onto Land; 5.5.2.2 Mitigation and Management Measures for Non-hazardous Substance Spill Onto Land; 5.6.2 Mitigation and Management Measures for Sediment Release into Water;	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
							5.7.2 Mitigation and Management Measures for Motor Vehicle Accident; 5.8.2 Mitigation and Management Measures for a Rail Accident; 5.9.2 Mitigation and Management Measures for Earthworks Failure; 5.10.2 Mitigation and Management Measures for a Power Failure; 5.11.2 Mitigation and Management Measures for Fires or Explosions	
							5.1.5 Risk Assessment for Containment Failure of Management Ponds; 5.2.5 Risk Assessment for Loss of Water Cover in Management Ponds; 5.3.5 Risk Assessment for Misidentification and/or Misplacement of Potentially Acid Generating (PAG) Material; 5.4.1.4 Assessment of Consequence; 5.4.1.5 Risk Assessment for Hydrocarbon Spill into Water	

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
9	147	ACCIDENTS AND MALFUNCTIONS	Conclusions on the potential risk (likelihood multiplied by consequence) of the accident or malfunction.	4	9.0 Accidents and Malfunctions	n/a	5.4.2.4 Assessment of Consequence; 5.4.2.5 Risk Assessment for Hazardous Material Spill in Water 5.5.1.4 Assessment of Consequence; 5.5.1.5 Risk Assessment for Hydrocarbon Spill on Land 5.5.2.4 Assessment of Consequence; 5.5.2.5 Risk Assessment for Non-Hydrocarbon Spill onto Land 5.6.5 Risk Assessment for Sediment Release; 5.7.5 Risk Assessment for Motor Vehicle Accidents; 5.8.5 Risk Assessment for Rail Accident; 5.9.5 Risk Assessment for Earthworks Failure; 5.10.5 Risk Assessment for Power Failure; 5.11.5 Risk Assessment for Surface Fires or Explosions; 6. Summary of Risk Assessment of Scenarios Listed	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
9	147	ACCIDENTS AND MALFUNCTIONS	At minimum, the following accidents and malfunctions will be assessed:	4	See below	See below	See below	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	• Containment loss;	4	9.0 Accidents and Malfunctions	n/a	5.1 Containment Failure of the Management Ponds; 5.2 Inability to Maintain Water Cover for Management Ponds	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	○ Containment failure of management ponds;	4	9.0 Accidents and Malfunctions	n/a	5.1 Containment Failure of the Management Ponds; 5.2 Inability to Maintain Water Cover for Management Ponds	13.11-B Tenas Project Dam Breach Assessment Report
9	147	ACCIDENTS AND MALFUNCTIONS	○ Loss of containment of PAG material leachate;	4	9.0 Accidents and Malfunctions	n/a	5.1 Containment Failure of the Management Ponds; 5.2 Inability to Maintain Water Cover for Management Ponds; 5.3 Misidentification and/or Misplacement of Potentially Acid Generating (PAG) Material	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	○ Hazardous material spills in water;	4	9.0 Accidents and Malfunctions	n/a	5.4 Hazardous Material Spills in Water	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	○ Hazardous material spills on land; and	4	9.0 Accidents and Malfunctions	n/a	5.5 Hazardous Material Spills on Land	n/a
9	147	ACCIDENTS AND MALFUNCTIONS	○ Sediment release into water.	4	9.0 Accidents and Malfunctions	n/a	5.6 Sediment Release into Water	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
9	147	ACCIDENTS AND MALFUNCTIONS	Transportation accidents;	4	9.0 Accidents and Malfunctions	n/a	5.7 Motor Vehicle Accident; 5.8 Rail Accident	n/a
9	148	ACCIDENTS AND MALFUNCTIONS	Motor vehicle accidents involving construction, operation, or transport crews; and	4	9.0 Accidents and Malfunctions	n/a	5.7 Motor Vehicle Accident	n/a
9	148	ACCIDENTS AND MALFUNCTIONS	Rail infrastructure accidents.	4	9.0 Accidents and Malfunctions	n/a	5.7 Motor Vehicle Accident; 5.8 Rail Accident	n/a
9	148	ACCIDENTS AND MALFUNCTIONS	Power failure;	4	9.0 Accidents and Malfunctions	n/a	5.10 Power Failure	n/a
9	148	ACCIDENTS AND MALFUNCTIONS	Earthworks failure: failure or slumping of pit wall; and	4	9.0 Accidents and Malfunctions	n/a	5.9 Earthworks Failure	13.11-B Tenas Project Dam Breach Assessment Report
9	148	ACCIDENTS AND MALFUNCTIONS	Fire or explosions.	4	9.0 Accidents and Malfunctions	n/a	5.11 Fires or Explosions	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	4	10.0 Effects of the Environment on the Project	n/a	n/a	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	The Application will include:	4	See below	n/a	See below	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	The environmental factors deemed to have possible consequences on the Project, including, but not necessarily limited to, consideration of natural hazards such as:	4	10.0 Effects of the Environment on the Project	n/a	1.1 Scope of the Evaluation	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Potential impacts of climate change (e.g., temperature rise, and trend of increasing precipitation);	4	10.0 Effects of the Environment on the Project	n/a	2. Climate Change	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Extreme weather and weather-related events (e.g., heavy precipitation, extreme temperatures and high winds);	4	10.0 Effects of the Environment on the Project	n/a	3. Extreme Weather Events	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Flood events;	4	10.0 Effects of the Environment on the Project	n/a	3.3.1 Surface Water Conditions; 3.3.2 High Stream Flow Risk Assessment (Flooding)	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Lightning strikes;	4	10.0 Effects of the Environment on the Project	n/a	4. Lightning Strike Risk Assessment	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Geohazards, including slope stability;	4	10.0 Effects of the Environment on the Project	n/a	5. Geohazards Risk Assessment	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Seismic activities/events; and	4	10.0 Effects of the Environment on the Project	n/a	6. Seismic Event Risk Assessment	n/a
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Forest fires.	4	10.0 Effects of the Environment on the Project	n/a	7. Wildfire Risk Assessment	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	A description of any changes or effects on the Project that may be caused by the above-mentioned environmental factors;	4	10.0 Effects of the Environment on the Project	n/a	2.2 Potential Effects on the Project and Valued Components (VCs); 3.1.2 Potential Effects on the Project and Valued Components (VCs); 3.1.4.1 Potential Effects on the Tenas Project and Valued Components of Extreme Heat; 3.1.5.1 Potential Effects on the Project and Valued Components (VC) of Extreme Cold; 3.1.6.1 Potential Effects on the Project and Valued Components (VC) from Freeze-thaw Cycles; 3.2.2.1 Potential Effects on the Tenas Project and Valued Components (VCs) of High Precipitation; 3.2.3.1 Potential Effects on the Project and Valued Components (VCs) of Low Precipitation;	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
							3.3.2.1 Potential Effects on the Project and Valued Components (VCs); 3.3.3.1 Effects on the Project and Valued Components (VCs); 3.4.2 Potential Effects on the Project and Valued Components (VCs); 4.2 Potential Effects on the Project and Valued Components (VCs); 5.2 Potential Effects on the Project and Valued Components (VCs); 6.2 Effects on the Project and Valued Components (VCs); 7.2 Potential Effects on the Project and Valued Components (VCs)	
							2.4 Likelihood and Consequence of Potential Effects of Climate Change; 3.1.4.2 Likelihood and Consequence of Extreme Heat; 3.1.5.2 Likelihood and Consequence of Extreme Cold; 3.1.6.2 Likelihood and Consequence for Freeze-thaw Cycles;	

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	The likelihood and consequence of the changes or effects to relevant VCs;	4	10.0 Effects of the Environment on the Project	n/a	3.2.2.3 Likelihood and Consequence of Potential Effects of High Precipitation; 3.2.3.3 Likelihood and Consequence of Potential Effects for Low Precipitation; 3.3.2.3 Likelihood and Consequence for High Stream Flow Events; 3.3.3.3 Likelihood and Consequence for Extreme Low Stream Events; 3.4.4 Likelihood and Consequence for High Winds; 4.4 Likelihood and Consequence for Lightning; 5.4 Likelihood and Consequence of Potential Effects; 6.4 Likelihood and Consequence of Seismic Events; 7.4 Likelihood and Consequence of Potential Effects	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	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 Project; and	4	10.0 Effects of the Environment on the Project	n/a	2.3 Project Mitigation Measures for Climate Change; 3.1.3 Project Mitigation Measures for Extreme Temperatures; 3.2.2.2 Project Mitigation Measures for High Precipitation Events; 3.2.3.2 Project Mitigation Measures for Low Precipitation Events; 3.3.2.2 Project Mitigation Measures for Extreme High Stream Flows; 3.3.3.2 Project Mitigation Measures for Extreme Low Stream Flows; 3.4.3 Project Mitigation for Extreme Wind Events; 4.3 Project Mitigation Measures for Lightning; 5.3 Project Mitigation Measures for Geohazards; 6.3 Project Mitigation Measures for a Seismic Event;	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
							7.3 Project Mitigation Measures for Wildfire Events	
10	149	EFFECTS OF THE ENVIRONMENT ON THE PROJECT	A conclusion about the potential risk of an effect of the environment on the Project and to relevant VCs.	4	10.0 Effects of the Environment on the Project	n/a	2.5 Conclusions on Potential Risks for Climate Change; 3.1.4.3 Conclusions on Potential Risk of Extreme Heat; 3.1.5.3 Conclusions on Potential Risk of Extreme Cold; 3.1.6.3 Conclusions on Potential Risk of Freeze-thaw Cycles; 3.2.2.4 Conclusions on Potential Risks of High Precipitation; 3.2.3.4 Conclusions on Potential Risks of Low Precipitation; 3.3.2.4 Conclusions on Potential Risk for High Stream Flows; 3.3.3.4 Conclusions on Potential Risk for Extreme Low Flows; 3.4.5 Conclusions on Potential Risk for High Winds;	n/a

Application Information Requirements				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
							4.5 Conclusions on Potential Risk for Lightning; 5.5 Conclusions on Potential Risk for Geohazards; 6.5 Conclusions on Potential Risk for Seismic Events; 7.5 Conclusions on Potential Risk for Fire; 8. Summary Of Risks To Valued Components (VCs) From Effects Of The Environment On The Project	

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
PART C	150	PART C - WET'SUWET'EN RIGHTS AND INTERESTS	PART C - WET'SUWET'EN RIGHTS AND INTERESTS	5	PART C - WET'SUWET'EN RIGHTS AND INTERESTS	n/a	n/a	n/a
11	150	WET'SUWET'EN RIGHTS AND INTERESTS ASSESSMENT	WET'SUWET'EN RIGHTS AND INTERESTS ASSESSMENT	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	n/a	n/a
11.1	150	Introduction	Introduction	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	1. Introduction	n/a
11.1	150	Introduction	This section of the Application will:	n/a	n/a	n/a	n/a	n/a
11.1	150	Introduction	Identify and introduce the potentially affected Indigenous group, the Wet'suwet'en Nation (the Wet'suwet'en), as identified in Schedule B of the Section 11 Order, and the Wet'suwet'en First Nation, as identified in Schedule C of the Section 11 Order.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	1. Introduction	n/a
11.1	150	Introduction	Describe the process of developing Part C, and how the Wet'suwet'en and the Proponent worked together to establish the approach/methodology.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	1. Introduction	n/a
11.1	150	Introduction	In April 2017, the Office of the Wet'suwet'en and the Proponent signed a Communication and Engagement Agreement as an initial formal step in the relationship. In July 2020, the Office of the Wet'suwet'en provided to TCL, the Work Plan outlining the Wet'suwet'en Process to be followed for the Project. A Project Assessment Agreement (PAA) will provide guidance to TCL in relation to the Wet'suwet'en process.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	1. Introduction	n/a
11.1	150	Introduction	TCL is using available information and soliciting input from individuals within the Wet'suwet'en to prepare Part C of the Application as it pertains to TCL's understanding of Wet'suwet'en's Rights and Interests. The assessment will be conducted for those VCs associated with Wet'suwet'en Rights and Interests as provided by the OW. During the EA process, TCL will work with the Wet'suwet'en to gather additional insight and information related to sections 11.3, 11.4 and 11.6.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	1. Introduction	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.2	150	Wet'suwet'en Background	Wet'suwet'en Background	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2. Wet'suwet'en Background	n/a
11.2	150	Wet'suwet'en Background	This section of the Application will:	5	See below	See below	See below	n/a
11.2	150	Wet'suwet'en Background	Provide a map that identifies Indian Reserves and Wet'suwet'en communities, and hereditary territory locations and boundaries with respect to the Project location;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	Figure 2.4 1: Wet'suwet'en Territory, Communities and Reserves in relation to the Project location.	n/a
11.2	150	Wet'suwet'en Background	Describe the ecological conditions in Wet'suwet'en territory, based on both science and Wet'suwet'en TEK and understanding, where available;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	3.4 Key Wet'suwet'en Environmental and Cultural Interests	n/a
11.2	150	Wet'suwet'en Background	Provide background information on the Wet'suwet'en, including, but not limited to:	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2. Wet'suwet'en Background	n/a
11.2	150	Wet'suwet'en Background	Ethnography and historic background;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.1 Ethnography and Historic Background	n/a
11.2	150	Wet'suwet'en Background	Language;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.2 Language	n/a
11.2	150	Wet'suwet'en Background	Land use setting and planning, including relevant Indigenous nations policies and applicable stewardship principles;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.3 Wet'suwet'en Land Use Planning, Natural Resource Policies and Stewardship Principles	n/a
11.2	151	Wet'suwet'en Background	Populations;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.4 Populations	n/a
11.2	151	Wet'suwet'en Background	Governance (hereditary and band level);	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.5 Governance (Hereditary and Band Level)	n/a
11.2	151	Wet'suwet'en Background	Sustenance;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.6 Sustenance	n/a
11.2	151	Wet'suwet'en Background	Traditional and preferred future economies;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.7 Traditional and preferred future economies	n/a
11.2	151	Wet'suwet'en Background	Lands and current reserves; and	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.8 Lands and Current Reserves	n/a

Application Information Requirements (AIR)				Environmental Assessment Certificate Application				
AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.2	151	Wet'suwet'en Background	Current use of land and resources for traditional purposes.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	2.9 Current Use of Land and Resources for Traditional Purposes	n/a
11.3	151	Known Wet'suwet'en Interests	Known Wet'suwet'en Interests	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	3. Known Wet'suwet'en Interests	n/a
11.3	151	Known Wet'suwet'en Interests	The Application will:	5	See below	See below	See below	n/a
11.3	151	Known Wet'suwet'en Interests	Provide a historical context of the area of the Project.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	3.1 Historical Context of the Area of the Project	n/a
11.3	151	Known Wet'suwet'en Interests	Provide a summary of known Wet'suwet'en lands and resources, Rights and Interests as related to the Project based on publicly available references.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	3. Known Wet'suwet'en Interests	n/a
11.4	151	Potential Effects on Wet'suwet'en Rights and Interests	Potential Effects on Wet'suwet'en Rights and Interests	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	4. Potential Effects on Wet'suwet'en Rights and Interests	n/a
11.4	151	Potential Effects on Wet'suwet'en Rights and Interests	The Application will describe what types of disturbance the Project will entail, based on a Wet'suwet'en understanding of the Project.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	4.1 Disturbances from the Project in relation to Wet'suwet'en Rights and Interests	n/a
11.4	151	Potential Effects on Wet'suwet'en Rights and Interests	The Application will identify potential effects from the Project which may include:	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	4.2 Potential effects from the Project on Wet'suwet'en Rights and Interests	n/a
11.4	151	Potential Effects on Wet'suwet'en Rights and Interests	Change in access to land and resources currently used by the Wet'suwet'en for traditional purposes;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5.3.2.3 Potential Effect: Change in Wet'suwet'en access to territory for land use and resource harvesting	n/a
11.4	151	Potential Effects on Wet'suwet'en Rights and Interests	Change preventing or interfering with preferred methods or timing of current Wet'suwet'en use of areas for traditional purposes;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5.3.2 Land Use and Resource Harvesting	n/a
11.4	151	Potential Effects on Wet'suwet'en Rights and Interests	Change in availability (quantity) or quality of wildlife and fish resources in preferred locations due to direct mortality (resulting from traffic, contamination, attractants, hunting pressure) or alteration of movement (resulting from sensory disturbance, physical impediments, habitat fragmentation);	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5.3.2.1 Change in quantity or quality of wildlife, fish and plant/vegetation resources	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.4	151	Potential Effects on Wet'suwet'en Rights and Interests	Change in availability of plant resources in preferred locations due to direct removal (resulting from site clearing) or alteration (resulting from edge effects from clearing, roads, emissions, contamination);	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5.3.2.1 Change in quantity or quality of wildlife, fish and plant/vegetation resources	n/a
11.4	151	Potential Effects on Wet'suwet'en Rights and Interests	Change in confidence in the safety of water and country foods, due to (real and perceived) contamination of water, plants, and animals (resulting from dust, chemicals, metals, herbicides, spills, explosives);	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.4.5 Wet'suwet'en Community Well-being	n/a
11.4	152	Potential Effects on Wet'suwet'en Rights and Interests	Change in sense of place due to sensory disturbance (resulting from noise, light, visual changes);	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5.3.3. Intangible Cultural Heritage - Change in sense of place and connection to land	n/a
11.4	152	Potential Effects on Wet'suwet'en Rights and Interests	Change in mobility due to removal or disturbance of trails and waterways (resulting from site clearing, infrastructure), reduced safety on roads (resulting from traffic), removal of campsites (resulting from site clearing, infrastructure);	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5.3.2 Land Use and Resource Harvesting	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.4	152	Potential Effects on Wet'suwet'en Rights and Interests	Change in sense of connection with land, spirit, and culture due to removal, alteration, and disturbance of burial sites, cultural heritage sites, spiritual and ceremonial sites, sites connected with important names, legends, and stories, and teaching and learning sites (resulting from site clearing, infrastructure, roads); and	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5.3.3.2 Intangible Cultural Heritage - Change in Wet'suwet'en Knowledge and Cultural Transmission; 6.5.3.3.3 Intangible Cultural Heritage - Change in spiritual and ceremonial practice; 6.5.3.3.4 Physical Cultural Heritage – Change in number of undisturbed physical cultural heritage features and change in risk of disturbing/destroying/losing physical cultural heritage features that are not yet identified	n/a
11.4	152	Potential Effects on Wet'suwet'en Rights and Interests	Change in community well-being as a result of social and economic change in the territory.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5.3.5 Wet'suwet'en Community Well-being	n/a
11.5	152	Assessment Methods and Information Sources	Assessment Methods and Information Sources	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	This section of the Application will describe the methods for determining effects from the Project on Wet'suwet'en Rights and Interests.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Existing information, publicly available, or made available by the Wet'suwet'en, will be gathered and reviewed, and may include:	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Historical or ethnographic records/materials;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Wet'suwet'en knowledge on seasonal use, occupancy or traditional land use;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.5	152	Assessment Methods and Information Sources	Other planning or policy related documents;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	GIS-related files showing seasonal use/occupancy, areas of intent, traditional district boundaries;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Site specific data related to subsistence, habitation, cultural or spiritual, environment or navigation; and	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Other publicly available information.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	The significance of residual effects from several other chapters in the Application will be brought forward to this section, including:	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Atmospheric Environment;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Avian Species;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Community Well-being;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	152	Assessment Methods and Information Sources	Demographics;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Economic Development;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Fish and Fish Habitat;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Heritage Resources;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Human Health;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Land and Resource Use;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Surface Water;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.5	153	Assessment Methods and Information Sources	Terrain and Soils;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Vegetation;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Visual Resources; and	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.5	153	Assessment Methods and Information Sources	Wildlife.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	5. Assessment Methods and Information Sources	n/a
11.6	153	Scope of Assessment on Wet'suwet'en Rights and Interests	Scope of Assessment on Wet'suwet'en Rights and Interests	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6. Scope of Assessment of Wet'suwet'en Rights and Interests	n/a
11.6	153	Scope of Assessment on Wet'suwet'en Rights and Interests	This section of the Application will include assessment of the potential Project-related effects on Wet'suwet'en Rights and Interests. Currently, the assessment will focus on components and key potential effect pathways such as the following:	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6. Scope of Assessment of Wet'suwet'en Rights and Interests	n/a
11.6	153	Scope of Assessment on Wet'suwet'en Rights and Interests	Current Land Use and Resource Harvesting (hunting, trapping, fishing, gathering) – Project potentially affecting harvesting for sustenance, trade, social, cultural, ceremonial or spiritual purposes through changes to access or ecology.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.4.2 Current Land Use and Resource Harvesting	n/a
11.6	153	Scope of Assessment on Wet'suwet'en Rights and Interests	Cultural Heritage – Project potentially affecting access to lands and water or altering the environment which in turn affects Wet'suwet'en teaching and cultural practices.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.4.3 Wet'suwet'en Cultural Heritage	n/a
11.6	153	Scope of Assessment on Wet'suwet'en Rights and Interests	Community Well-being – Through change in the local and regional communities, demographics and land use, the Project potentially affecting existing and future economic and social well-being of Wet'suwet'en citizens.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.4.5 Wet'suwet'en Community Well-being	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.6	153	Scope of Assessment on Wet'suwet'en Rights and Interests	Wet'suwet'en Health – From the assessment of changes to human health from alterations in quality of water and foods and considering potential change in food security and availability of traditional foods, the potential for the Project to affect the health of Wet'suwet'en individuals and community.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.4.4 Wet'suwet'en Health	n/a
11.6	153	Scope of Assessment on Wet'suwet'en Rights and Interests	The assessment will provide:	5	See below	See below	See below	n/a
11.6	153	Scope of Assessment on Wet'suwet'en Rights and Interests	A description of the existing situation;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.4 Existing Conditions	n/a
11.6	154	Scope of Assessment on Wet'suwet'en Rights and Interests	An assessment of potential adverse effects of the Project on Wet'suwet'en rights and interests for each component;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.5 Assessment of Project Related Effects	n/a
11.6	154	Scope of Assessment on Wet'suwet'en Rights and Interests	A description or summary of mitigation measures to avoid or reduce potential adverse effects on Indigenous groups' interests consistent with section 3.5 Mitigation Measures of this AIR; and	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.6 Mitigation Measures and Opportunities for Alignment of Interests	n/a
11.6	154	Scope of Assessment on Wet'suwet'en Rights and Interests	A characterization of the residual adverse effects on Wet'suwet'en rights and interests after mitigation using the methodology described in sections 3.6 Characterization of Residual Effects, 3.6.1 Likelihood, and 3.7.1 Confidence and Risk of this AIR and incorporating the findings of the VC chapters in the Application that are relevant to Indigenous groups' interests.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.7 Residual Effects on Wet'suwet'en Rights and Interests	n/a
11.6	154	Scope of Assessment on Wet'suwet'en Rights and Interests	Due to the unique nature of Indigenous rights, the Application will make no determination of the significance of residual adverse effects on Wet'suwet'en rights and interests.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	6.7 Residual Effects on Wet'suwet'en Rights and Interests	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.7	154	Perspectives on Cumulative Effects	Perspectives on Cumulative Effects	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	7. Perspectives on Cumulative Effects	n/a
11.7	154	Perspectives on Cumulative Effects	This section will describe Wet'suwet'en perspectives on cumulative effects, as documented in existing publicly available resources.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	7. Perspectives on Cumulative Effects	n/a
11.7	154	Perspectives on Cumulative Effects	This section will discuss the residual effects of the Project in the context of other industrial and environmental effects, considering known Wet'suwet'en perspectives.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	7. Perspectives on Cumulative Effects	n/a
11.8	154	Summary of Potential Project Effects, Mitigation and Conclusions	Summary of Potential Project Effects, Mitigation and Conclusions	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	8. Summary of Potential Project Effects, Mitigation and Conclusions	n/a
11.8	154	Summary of Potential Project Effects, Mitigation and Conclusions	The Application will include a Summary Table (see example below) that identifies potential effects on Wet'suwet'en Rights and Interests, proposed mitigation measures and conclusions.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	Table 8-1: Summary of Potential Effects on Wet'suwet'en Interests and Rights, Mitigation Measures and Conclusions	n/a
11.8	154	Summary of Potential Project Effects, Mitigation and Conclusions	Table 4: Summary of Potential Effects on Wet'suwet'en Interests and Rights, Mitigation Measures and Conclusions	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	Table 8-1: Summary of Potential Effects on Wet'suwet'en Interests and Rights, Mitigation Measures and Conclusions	n/a
11.9	154	Consultation	Consultation	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	9. Consultation and Engagement	n/a
11.9	154	Consultation	The Application will include:	5	See below	See below	See below	n/a
11.9	154	Consultation	A summary of past and planned consultation activities;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	9. Consultation and Engagement	n/a
11.9	154	Consultation	If applicable, a summary of proposed changes to the Indigenous Consultation and Engagement Plan resulting from the Wet'suwet'en feedback, or experience from consultation to date, including any such changes which have been implemented;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	9. Consultation and Engagement	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
11.9	154-155	Consultation	An Appendix, the Indigenous Consultation and Engagement Report, which contains comments received from Wet'suwet'en regarding this section of the Application;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	9. Consultation and Engagement	n/a
11.9	154-155	Consultation	A Summary Table (see example below) that summarizes the results of consultation related to Wet'suwet'en Interests or other matters of concern to Wet'suwet'en that may be affected by the Project, and how these were addressed including design considerations, mitigations, accommodations, and specific commitments that address the effects identified;	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	9. Consultation and Engagement	n/a
11.9	155	Consultation	A summary of any outstanding Indigenous Interests issues identified by Wet'suwet'en; and	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	9. Consultation and Engagement	n/a
11.9	155	Consultation	A summary of publicly available arrangements or agreements reached between the proponent and Wet'suwet'en.	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	9. Consultation and Engagement	n/a
11.9	155	Consultation	Table 5: Summary Table of the Results of Consultation related to Wet'suwet'en Interests/Other Matters of Concern	5	11.0 Wet'suwet'en Rights and Interests Assessment	n/a	Table 9.2-1: Summary Table of the Results of Consultation and Engagement related to Wet'suwet'en Interests/Other Matters of Concern	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
PART D	157	PART D – PUBLIC CONSULTATION	PART D – PUBLIC CONSULTATION	6	PART D – PUBLIC CONSULTATION	n/a	n/a	n/a
12	157	PUBLIC CONSULTATION	PUBLIC CONSULTATION	6	12.0 Public Consultation	n/a	n/a	n/a
12	157	PUBLIC CONSULTATION	The Application will include a report on the results of implementation of the approved Public Consultation Plan including:	6	12.0 Public Consultation	n/a	n/a	12.0-B Tenas Project Public Consultation Report
12	157	PUBLIC CONSULTATION	Background Information:	6	12.0 Public Consultation	n/a	1.1 Background Information	12.0-A Tenas Project Public Consultation Plan
12	157	PUBLIC CONSULTATION	Identification of local governments, residents, property owners, and other rights holders who are potentially impacted by the Project;	6	12.0 Public Consultation	n/a	1.2 Identifying Interested Parties	12.0-A Tenas Project Public Consultation Plan; 12.0-B Tenas Project Consultation Report
12	157	PUBLIC CONSULTATION	Maps of local government boundaries, private land, tenures/authorizations, or residences with respect to the Project; and	6	12.0 Public Consultation	n/a	Figure 1.1-1: Project Area; Figure 1.1-2: Public Consultation Area	n/a
12	157	PUBLIC CONSULTATION	Background information about each potentially affected municipality and/or stakeholder group.	6	12.0 Public Consultation	n/a	1.2 Identifying Interested Parties	n/a
12	157	PUBLIC CONSULTATION	Public Consultation:	6	12.0 Public Consultation	n/a	1. Public Consultation	12.0-A Tenas Project Public Consultation Plan; 12.0-B Tenas Project Consultation Report
12	157	PUBLIC CONSULTATION	A summary of the past and planned consultation activities;	6	12.0 Public Consultation	n/a	1. Public Consultation	12.0-A Tenas Project Public Consultation Plan; 12.0-B Tenas Project Consultation Report
12	157	PUBLIC CONSULTATION	A summary of any changes to the approved Public Consultation Plan as a result of feedback from local governments, stakeholders or individuals, or experience from consultation to date; and	6	12.0 Public Consultation	n/a	1.4 Changes to Public Consultation Plan	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading & Subheading Number & Title	Relevant Appendix
12	157	PUBLIC CONSULTATION	○ A description of the key issues raised by the public that are relevant to the EA, the responses to those issues, and the status of their resolution.	6	12.0 Public Consultation	n/a	1.5 Summary of Key Issues and Concerns Raised During Public Consultation	12.0-B Tenas Project Consultation Report
12	157	PUBLIC CONSULTATION	• Summary Table:	6	12.0 Public Consultation	n/a	Table 1.5 1: Summary of Key Issues Raised During Public Consultation and TCL's Responses	n/a
12	157	PUBLIC CONSULTATION	○ Identification of concerns raised by the public and the measures to avoid, reduce or mitigate those effects. This information will be provided in the form of a table.	6	12.0 Public Consultation	n/a	Table 1.5 1: Summary of Key Issues Raised During Public Consultation and TCL's Responses	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix
PART E	159	PART E – MANAGEMENT PLANS AND FOLLOW-UP STRATEGIES	PART E – MANAGEMENT PLANS AND FOLLOW-UP STRATEGIES		PART E – MANAGEMENT PLANS AND FOLLOW-UP STRATEGIES	n/a	n/a	n/a
13	159	MANAGEMENT PLANS	MANAGEMENT PLANS	7	See below	See below	See below	n/a
13	159	MANAGEMENT PLANS	The Environmental Management System (EMS) for the Project is an overarching management plan strategy comprising a set of processes and practices which enable TCL to manage its environmental and safety performance in a holistic way, within an integrated framework. While the management plans are part of the EMS, the EMS is not just a collection of management plans. Important features of the EMS include identification and management of key aspects, document control, operational procedures, regulatory compliance, training, communication, and defining the roles and responsibilities for participants by using formal Plan-Do-Check-Act functions. The management plans are designed to meet (or exceed) the requirements of the BC EAO and other regulatory agencies. Each management plan includes mitigation measures designed to address the potential for adverse effects associated with Project components and activities. Individual management plans may include applicable monitoring programs and adaptive management processes.	7	See below	See below	See below	n/a
13	159	MANAGEMENT PLANS	Application will include a list of management plans for all phases of the Project, including but not limited to:	7	See below	See below	See below	n/a
13	159	MANAGEMENT PLANS	Air Quality Management Plan (including dust control);	7	13.0 Environmental Management Plans	2 Air Quality Management Plan (AQMP)	n/a	n/a
13	159	MANAGEMENT PLANS	Chemicals and Materials, Storage, Transfer, and Handling Plan;	7	13.0 Environmental Management Plans	3 Chemicals and Materials Storage, Transfer, and Handling Plan (CMSTHP)	n/a	13.3-A Material Safety Data Sheets (MSDSs) for Selected Products

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13	159	MANAGEMENT PLANS	Construction Environmental Management Plan;	7	13.0 Environmental Management Plans	4 Construction Environmental Management Plan (CEMP)	n/a	13.4-A Geotechnical Investigation Tenas Haul Road Tenas Project Feasibility Study Telkwa, BC; 13.4-B Standard Best Management Practices (BMPs); 13.4-C Project Summary Report – Tenas Bypass Road Feasibility Design; 13.4-D Bench Scale Testing: Preliminary TSS Sampling With & Without Chemical Addition for Overburden Material; 13.4-E Safety Data Sheet for Flocculant Flopam Appendix 13.4-F Chance Find Procedure for Heritage Resources; 13.4-G Chance Find Procedure for Paleontological Resources in British Columbia – Tenas Project Phase 1; 13.4-H Incident Notification and Incident Investigation Report Forms
13	159	MANAGEMENT PLANS	Discharge Management Plans (including selenium management);	7	13.0 Environmental Management Plans	5 Discharge Management Plan (DMP)	n/a	13.5-A IDZ Assessment Memo; 13.5-B Water and Load Balance Report; 13.5-C Aluminium SPO Recommendation Memo; 13.5-D Cadmium SPO Recommendation Memo; 13.5-E Cobalt SPO Recommendation Memo; 13.5-F Nitrite SPO Recommendation Memo; 13.5-G Selenium SPO Recommendation Memo; 13.5-H Thallium SPO Recommendation Memo; 13.5-I Selenium Management Plan 13.5-J Calcite Precipitation Evaluation Technical Memorandum
13	159	MANAGEMENT PLANS	Environmental Management System;	7	13.0 Environmental Management Plans	1 Environmental Management System (EMS)	n/a	13.1-A Environmental, Social, and Governance Policy (ESGP); 13.1-B Preconstruction Risk Register for the Tenas Project; 13.1-C Incident Notification and Incident Investigation Report Forms

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13	159	MANAGEMENT PLANS	Explosives Management Plan (including blasting vibration control);	7	13.0 Environmental Management Plans	6 Explosives Management Plan (EMP)	n/a	13.6-A Risk Assessment Tables; 13.6-B Mine Plan: Years -0.5 to 21; 13.6-C Material Safety Data Sheets; 13.6-D Orica Emergency Response Plan; 13.6-E Orica Blast Site Safety Manual - Explosives and Packaging Disposal; 13.6-F Explosives and Detonators Transportation Procedure; 13.6-G Orica Suggested Best Loading Practices; 13.6-H Orica Blast Site Policy Environmental Considerations; 13.6-I Spill Report Form; 13.6-J Incident Notification and Incident Investigation Report Forms; 13.6-K Blast Report
13	159	MANAGEMENT PLANS	Fuel Management and Spill Control Plan;	7	13.0 Environmental Management Plans	7 Fuel Management and Spill Control Plan (FMSCP)	n/a	13.7-A Incident Notification and Incident Investigation Report Forms; 13.7-B Spill Report Form; 13.7-C Risk Assessment Matrix; 13.7-D Best Management Practices (BMPs) for Treatment (Bioremediation) of Small Volumes of Hydrocarbon Contaminated Material; 13.7-E Draft Spill Response Procedures for Select Substances
13	159	MANAGEMENT PLANS	Heritage Resources Management Plan;	7	13.0 Environmental Management Plans	8 Heritage Resources Management Plan (HRMP)	n/a	13.8-A Chance Find Procedure for Heritage Resources; 13.8-B Chance Find Procedure for Palaeontological Resources

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13	159	MANAGEMENT PLANS	▪ Mine Emergency Response Plan;	7	13.0 Environmental Management Plans	9 Mine Emergency Response Plan (MERP)	n/a	13.9-A Operation, Maintenance and Surveillance Plan for Dams at the Tenas Project; 13.9-B Job Risk Assessment Form; 13.9-C Emergency Response Plans; 13.9-D Incident Notification Report and Incident Investigation Report Forms; 13.9-E Orica's ERP for D5 Distance Locations at the Tenas Project; 13.9-F Support Services Contact List; 13.9-G Emergency Preparedness Plan; 13.9-H Telkwa Coal Snow Avalanche Assessment; 13.9-I Current TCL Mine Plan for Life-of-Mine; 13.9-J Maps of Tenas Project Site; 13.9-K List of First Aid Room Supplies and Supplemental Medical Supplies; 13.9-L Mutual Assistance Agreements; 13.9-M Occupational First Aid (OFA) 3 and Emergency Response/Mine Rescue Roster and Contacts; 13.9-N Incident Command Duty Cards
13	159	MANAGEMENT PLANS	▪ Minesite Traffic Control Plan;	7	13.0 Environmental Management Plans	10 Minesite Traffic Control Plan (MTCP)	n/a	13.10-A Project Summary Report -Tenas Bypass Road Feasibility Design; 13.10-B Minesite Traffic Control Plan Figures; 13.10-C Runaway Ramp Additional Details; 13.10-D Vehicle Operator Checklist; 13.10-E Wildlife Observation Form; 13.10-F Incident Notification and Incident Investigation Forms

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13	159	MANAGEMENT PLANS	Minesite Water Management Plan;	7	13.0 Environmental Management Plans	11 Minesite Water Management Plan (MWMP)	n/a	Appendix 13.11-A Engineering Drawings; Appendix 13.11-B Dam Breach Assessment; Appendix 13.11-C Stage-Storage Relationships; Appendix 13.11-D Soil Cover Memo; Appendix 13.11-E Minesite Water Monitoring Program
13	159	MANAGEMENT PLANS	ML/ARD Management Plan (including mine material management);	7	13.0 Environmental Management Plans	12 Metal Leaching (ML)/Acid Rock Drainage (ARD) Management Plan (ML/ARDMP)	n/a	n/a
13	160	MANAGEMENT PLANS	Occupational Health and Safety Program;	7	13.0 Environmental Management Plans	13 Occupational Health and Safety Program (OHSP)	n/a	13.13-A Occupational Health Risk Assessment – Industrial Hygiene; 13.13-B Ergonomics Risk Assessment; 13.13-C Job Risk Analysis (JRA) Form; 13.13-D General Safety Rules and Critical Procedures; 13.13-E Workplace Monitoring Procedures; 13.13-F Incident Notification and Incident Investigation Report Forms
13	160	MANAGEMENT PLANS	Public Access Management Plan;	7	13.0 Environmental Management Plans	14 Public Access Management Plan (PAMP)	n/a	13.14-A Incident Notification and Incident Investigation Report Forms
13	160	MANAGEMENT PLANS	Reclamation and Closure Plan (including soil management);	7	13.0 Environmental Management Plans	15 Reclamation and Closure Plan (RCP)	n/a	13.15-A Reclamation and Closure Plan for Lands within the Agricultural Land Reserve (ALR); 13.15-B Soil Management Plan; 13.15-C Ecohydrological Modelling Methods; 13.15-D Ecosystem Fact Sheets; Appendix 13.15-E Telkwa Coal Aquatics Fish Habitat Offsetting – Phase 1 Feasibility Planning; 13.15-F SRK, Tenas Project Conceptual Cover Memo; 13.15-G SRK, Tenas Project Water Management Design Technical Report;
13	160	MANAGEMENT PLANS	Socio-economic Management Plan;	7	13.0 Environmental Management Plans	16 Socio-economic Management Plan (SEMP)	n/a	n/a

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AIR Section	AIR Page No.	AIR Title	AIR Section Language	Volume	Section Number & Title	Chapter Number & Title	Heading and Subheading Number & Title	Relevant Appendix
13	160	MANAGEMENT PLANS	Surface Erosion Prevention and Sediment Control Plan;	7	13.0 Environmental Management Plans	17 Surface Erosion Prevention and Sediment Control Plan (SEPSCP)	n/a	13.17-A Standard Best Management Practices (BMPs); 13.17-B Initial Bench Testing Report for Flocculant – Stormtec; 13.17-C Safety Data Sheet; 13.17-D Weekly Environmental Monitoring Report
13	160	MANAGEMENT PLANS	Vegetation Management Plan (including invasive plant control);	7	13.0 Environmental Management Plans	18 Vegetation Management Plan (VMP)	n/a	13.18-A Invasive Plant Species with the Potential to Occur within the Project Area
13	160	MANAGEMENT PLANS	Visual Resources Management Plan;	7	13.0 Environmental Management Plans	19 Visual Resources Management Plan (VRMP)	n/a	13.19-A Visual Resources Monitoring Field Sheet
13	160	MANAGEMENT PLANS	Waste Management Plan for Refuse and Emissions; and	7	13.0 Environmental Management Plans	20 Waste Management Plan for Refuse and Emissions (WMPRE)	n/a	n/a
13	160	MANAGEMENT PLANS	Wildlife Management Plan.	7	13.0 Environmental Management Plans	21 Wildlife Management Plan (WMP)	n/a	13.21-A Wildlife Observations Log
13	160	MANAGEMENT PLANS	A comprehensive description of the contents of each management plan, including the identification of any mitigation measures described in previous sections that will be included within the plans.	7	13.0 Environmental Management Plans	1 Environmental Management System (EMS) <i>through</i> 21 Wildlife Management Plan (WMP)	n/a	n/a

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14	161	FOLLOW-UP STRATEGY	FOLLOW-UP STRATEGY	7	14.0 Follow-up Strategy	n/a	n/a	n/a
14	161	FOLLOW-UP STRATEGY	The Application will include:	7	See below	See below	See below	n/a
14	161	FOLLOW-UP STRATEGY	A description of the monitoring and follow-up programs the Proponent will implement, including their activities, objectives, and reporting; and	7	14.0 Follow-up Strategy	n/a	1. Follow-up Strategies for Each Valued Component (VC)	n/a
14	161	FOLLOW-UP STRATEGY	Reporting structure as identified within the environmental management plans, monitoring plans and EAC Conditions.	7	14.0 Follow-up Strategy	n/a	2. Reporting Structure	n/a

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15	163	CONCLUSIONS	CONCLUSIONS	8	15.0 CONCLUSIONS	n/a	n/a	n/a
15	163	CONCLUSIONS	The Application will:	8	See below	See below	See below	n/a
15	163	CONCLUSIONS	Provide the Proponent's conclusions regarding the potential for significant adverse effects on VCs from the Project;	8	15.0 CONCLUSIONS	n/a	n/a	n/a
15	163	CONCLUSIONS	Request an EAC for the Project; and	8	15.0 CONCLUSIONS	n/a	n/a	n/a
15	163	CONCLUSIONS	Acknowledge the need, if applicable, to successfully complete a federal EA and subsequent permitting/authorization processes prior to proceeding with the Project's Construction, Operation, and Decommissioning and Reclamation phases.	8	15.0 CONCLUSIONS	n/a	n/a	n/a
15.1	163	Summary of Mitigation Measures	Summary of Mitigation Measures	8	15.0 CONCLUSIONS	n/a	1.1 Summary of Mitigation Measures	n/a

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15.1	163	Summary of Mitigation Measures	The Application will include a table that identifies the proposed measures to mitigate potential effects to VCs as shown in Table 6 . This information provides the foundation for the development of a Table of Conditions for the Project, which would be appended to an EAC, should one be issued.	8	15.0 CONCLUSIONS	n/a	1.1 Summary of Mitigation Measures;	n/a
						n/a	Table 1.1-1: Summary of Proposed Mitigation Measures	
15.1	163	Summary of Mitigation Measures	Table 5: Summary of Proposed Mitigation Measures	8	15.0 CONCLUSIONS	n/a	Table 1.1-1: Summary of Proposed Mitigation Measures	n/a
						n/a		
15.2	163	Summary of Residual Effects	Summary of Residual Effects	8	15.0 CONCLUSIONS	n/a	1.2 Summary of Residual Effects	n/a
15.2	163	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.	8	15.0 CONCLUSIONS	n/a	1.2 Summary of Residual Effects;	n/a
						n/a	Table 1.1-2: Summary of Residual Effects	

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16	164	REFERENCE MATERIAL	REFERENCE MATERIAL	8	16.0 REFERENCE MATERIAL	n/a	n/a	n/a
16	164	Reference Material	The Proponent will provide a list of reference material used in developing the Application.	8	16.0 Reference Material	All Chapters	n/a	n/a